Capital Improvement Program

Project Review Committee Workshop

Project Requests for CIP Ordinance 2020-10

April 1st, 2nd, and 3rd, 2019

Prepared By:
Department of Planning & Community Services
Community Planning Division
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NORTH SLOPE BOROUGH
PROJECT REVIEW COMMITTEE (PRC)

Scott Danner, Director, Public Works Department
Lars Nelson, Deputy Director, Housing Department
Eben Hopson, Director of Administration and Finance
Bernadette Adams, CIPM Director
Matt Dunn, Enterprise Fund Business Manager, Public Works

Harry K. Brower Jr., Mayor
PO Box 69
Barrow, AK 99723
Phone (907) 852-0320
Fax (907) 852-0322

CIP Project Review Committee Ordinance 2020-10 Workshop

AGENDA

REVIEW April 1st, 2nd & 3rd, 2020 @ 9:30 am
RECOMMENDATIONS April 3rd, 2020 @ 9:30 am
Barrow High School Auditorium,

1. Call to Order and Roll Call
2. Invocation
3. Reorganization of PRC
4. Introduction by Planning Department
5. 2019 6-Year Capital Plan Review
6. Bond Capacity and Debt Target Review
7. Project Request Submittals – Order of Review by Section
   a. 06 Education Facilities
   b. 07 Public Roads, Streets & Water Courses
   c. 08 Public Housing
   d. 09 Water Facilities
   e. 10 Sewage Treatment Facilities
   f. 13 Light, Power & Heating Systems
   g. 14 Public Safety Facilities
   h. 15 Sanitary Facilities
   i. 17 Comminutions
   j. 18 General Capital Projects
   k. 22 Administration
8. Project Analysis Requests & Recommendations
9. Project Request Recommendations - FRIDAY
10. Old Business
11. Scheduling of Next Meeting
12. Adjournment
MEMORANDUM

To: CIP Project Review Committee  
From: Gordon Brower, Director  
Date: April 1, 2020  
Subject: CIP 2020-10 Briefing Book

I would like to take this opportunity to welcome back the returning PRC members and to welcome new members.

This workbook introduces the CIP process and projects proposed for consideration under the CIP Ordinance 2020-10 for PRC recommendations to the Planning Commission.

The 2019 CIP Six Year Capital Plan identifies a need for capital funding that far exceeds the NSB’s annual debt capacity. Many phased projects currently exist that have not achieved construction or completion funding due to the same fiscal constraints. This workbook contains project requests that address repair and replacement, to continue existing projects, and new projects.

Please review each request and form a recommendation to the Planning Commission of those projects that meet criteria and should be funded this year. During your deliberations my staff will be recording your discussion to offer the Commissioners an explanation for each project contained herein.

Quyanaqpak, and best wishes in your coming endeavor.
PUBLIC NOTICE

NORTH SLOPE BOROUGH
CAPITAL IMPROVEMENT PROGRAM

PROJECT REVIEW COMMITTEE (PRC)
WORKSHOP FOR CIP ORDINANCE 2020-10

The PRC is holding public meetings on April 1\textsuperscript{st}, 2\textsuperscript{nd}, and 3\textsuperscript{rd}, 2020 to review and consider capital project requests and provide recommendations to the Planning Commission and Mayor for \textit{Capital Improvement Program Ordinance 2020-10}. Meetings will be held at NSB Assembly Chambers at 1274 Agvik Street in Barrow, Alaska, and broadcast to community teleconference centers.

NSB Assembly Room beginning at 9:30am
Wednesday April 1\textsuperscript{st}, Thursday April 2\textsuperscript{nd}, & Friday, April 3\textsuperscript{rd}, 2020

Workbooks available to review at Village Teleconference Centers

For agenda, meeting material, information, or questions
Contact CIP Specialists Nok Acker Nok.Acker@north-slope.org
Or Susan Kittik-Atos Susan.Kittick-Atos@north-slope.org
(907) 852-0320

Date Posted 3/9/2020
Memorandum

To: NSB All Users
From: Harry K. Brower, Jr., Mayor
Date: January 29, 2019
Subject: CIP Project Review Committee_05-19

In accordance with the CIP goals and policies that were established to address future growth and development on the North Slope, I have appointed the following members and an alternate to the CIP Project Review Committee. This Committee is responsible for the coordination and review of CIP proposed project requests for future funding.

Members:
Scott Danner, Director, Public Works Department
Lars Nelson, Deputy Director, Housing Department
Eben Hopson, Director of Administration and Finance
Bernadette Adams, CIPM Director
Matt Dunn, Enterprise Fund Business Manager, Public Works

Alternate:
Kenneth Robbins, Chief Advisor to the Mayor
NORTH SLOPE BOROUGH
Annual New CIP Project Submittal and Selection Process

**NOV/DEC**
- Announcement Letters Sent to Submitting Entities*

**OCT/NOV,DEC,JAN**
- Village Workshops

**DEC to FEB**
- Project & PAR Request Intake from Submitting Entities
- Initial Review by Staff for Completeness
- Completed Project/PAR Requests to Selection Process
- Incomplete Application

**OCTOBER**
- 2 Day Planning Commission Workshop and Reg. Meeting end of APRIL
- NSB Planning Commission Reviews All CIP Project Requests, Prepares Recommendation to Assembly via NSB Mayor

**One Day Workshop and Special Assembly Meeting before JUNE 15**
- Projects are reviewed by CIP Project Review Committee (PRC)
- Mayor’s Office for Concurrence and Possible Additions

**DEC to FEB**
- 3 day Workshop end of MARCH
- Following the PRC Workshop MAR/APR

**DECEMBER/JANUARY**
- NSB Assembly CIP Public Hearing and Adoption
- Voters to Approve Bond Sale to Fund Assembly Approved CIP Projects
- CIPM Carries Out Approved & Funded CIP Projects

*“Submitting Entities” include Village/City/IRA Councils, NSB Departments, NSBSD 1/2012*
NORTH SLOPE BOROUGH PLANNING COMMISSION
RESOLUTION 2010-16

A RESOLUTION ADOPTING AMENDED CIP PROJECT SELECTION CRITERIA
FOR DETERMINING NON-DISCRETIONARY, PRIORITY – DISCRETIONARY AND
DISCRETIONARY CIP PROJECTS

WHEREAS, the Planning Commission is charged under North Slope Borough Code of Ordinances 19.30.050 (B) with the responsibility to annually review the Capital Improvements Program (CIP) of the North Slope Borough and submit its recommendation to the Assembly; and

WHEREAS, in performance of this charge it is necessary to establish criteria whereby CIP project proposals can be evaluated; and

WHEREAS, as the North Slope Borough is preparing a more detailed 6 Year CIP plan existing selection criteria need to be updated to reflect this new approach.

NOW, THEREFORE BE IT RESOLVED:

THAT the North Slope Borough Planning Commission adopts the following amended CIP project selection criteria attached as Exhibit 1; and

THAT a copy of this Resolution be forwarded to the North Slope Borough Clerk.

INTRODUCED: October 28, 2010
ADOPTED: October 28, 2010

[Signature]
Paul Bodfish, Sr., Chairman
Date 10-28-2010

Eli Nakupiaq, Clerk
Date 10-28-10
CRITERIA FOR DETERMINING NON-DISCRETIONARY, PRIORITY- DISCRETIONARY AND DISCRETIONARY CIP PROJECTS


Non–Discretionary:

A Non-Discretionary project is one that is a verified emergency; is a borough responsibility; and is related to life health and safety. Few projects will qualify for this classification. Specific criteria include:

1. The NSB has been formally warned or a notice of violation issued by local, state or federal authorities that a borough facility will be closed or fines levied in the next year unless a plan of action is prepared or a corrective effort made.

2. When a structural failure of a borough building is imminent and has been attested to in writing by a licensed engineer or architect, and the building is an essential facility for the life, health, safety, and educational (primary & secondary) services for borough residents and the cost of corrective measures is the most efficient solution.

3. Where environmental conditions are such that without immediate action an actual and a verifiable and documented imminent threat to public health exist and relates to a borough power or responsibility.

4. Where a risk assessment has been conducted that documents a capital investment is prudent so as to avoid the imminent or very near term failure of a vital borough facility or function.

Priority Discretionary:

1. Projects that are listed in the borough’s “6 Year CIP Plan” in the year indicated and are designed to support the borough’s existing capital assets and level of service and not expand them.

In addition, projects may be considered Priority Discretionary or given added emphasis if they meet one of the following:

2. Where a new project will generate a significant cost saving/reduction to the Borough operating budget and is documented as such by appropriate analysis;

3. A project that has a significant local employment impact or serves to equalize employment impacts across the borough.

4. A project which leverages a significant amount of outside funding.

Discretionary Projects

1. All other projects

\(^{1}\) For a project to receive “Non-Discretionary” status under items 1 – 4, there must be written confirmation as indicated submitted with the project request.
NORTH SLOPE BOROUGH BOND CAPACITY – FY2021
CIP Project Review Committee April 1-3, 2020
## Debt Schedule by Fiscal Year As Of December 31, 2019

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Principal</th>
<th>Interest</th>
<th>Total</th>
<th>Net of Subsidy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>43,285,000</td>
<td>6,653,224</td>
<td>49,938,224</td>
<td>49,655,604</td>
</tr>
<tr>
<td>2021</td>
<td>64,095,000</td>
<td>9,825,411</td>
<td>73,920,411</td>
<td>73,623,029</td>
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<tr>
<td>2022</td>
<td>53,080,000</td>
<td>6,625,028</td>
<td>59,705,028</td>
<td>59,559,461</td>
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<td>2023</td>
<td>40,190,000</td>
<td>4,269,531</td>
<td>44,459,531</td>
<td>44,432,088</td>
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<tr>
<td>2024</td>
<td>23,185,000</td>
<td>1,593,750</td>
<td>24,778,750</td>
<td>24,778,750</td>
</tr>
<tr>
<td>2025</td>
<td>7,475,000</td>
<td>759,000</td>
<td>8,234,000</td>
<td>8,234,000</td>
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<tr>
<td>2026</td>
<td>4,645,000</td>
<td>461,250</td>
<td>5,106,250</td>
<td>5,106,250</td>
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<td>2027</td>
<td>3,130,000</td>
<td>229,000</td>
<td>3,359,000</td>
<td>3,359,000</td>
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<tr>
<td>2028</td>
<td>1,450,000</td>
<td>72,500</td>
<td>1,522,500</td>
<td>1,522,500</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>240,535,000</strong></td>
<td><strong>30,488,694</strong></td>
<td><strong>271,023,694</strong></td>
<td><strong>270,270,684</strong></td>
</tr>
</tbody>
</table>
### Debt Schedule by Bond Series As Of December 31, 2019

<table>
<thead>
<tr>
<th>GO Bond Series</th>
<th>Principal</th>
<th>Interest</th>
<th>Total</th>
<th>Net of Subsidy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series 2019 B</td>
<td>3,375,000</td>
<td>415,381</td>
<td>4,150,381</td>
<td>4,150,381</td>
</tr>
<tr>
<td>Series 2019 A</td>
<td>65,900,000</td>
<td>7,790,736</td>
<td>73,690,736</td>
<td>73,690,736</td>
</tr>
<tr>
<td>Series 2018 B</td>
<td>13,045,000</td>
<td>1,730,125</td>
<td>14,775,125</td>
<td>14,775,125</td>
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<tr>
<td>Series 2018 A</td>
<td>58,160,000</td>
<td>7,714,000</td>
<td>65,874,000</td>
<td>65,874,000</td>
</tr>
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<td>Series 2017 B</td>
<td>10,840,000</td>
<td>2,614,000</td>
<td>13,454,000</td>
<td>13,454,000</td>
</tr>
<tr>
<td>Series 2016 C</td>
<td>11,825,000</td>
<td>2,516,625</td>
<td>14,341,625</td>
<td>14,341,625</td>
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<tr>
<td>Series 2016 B</td>
<td>10,035,000</td>
<td>507,875</td>
<td>10,542,875</td>
<td>10,542,875</td>
</tr>
<tr>
<td>Series 2016 A</td>
<td>2,460,000</td>
<td>217,000</td>
<td>2,677,000</td>
<td>2,677,000</td>
</tr>
<tr>
<td>Series 2015 B</td>
<td>10,245,000</td>
<td>1,838,221</td>
<td>12,083,221</td>
<td>12,083,221</td>
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<tr>
<td>Series 2014 B</td>
<td>13,800,000</td>
<td>2,111,650</td>
<td>15,911,650</td>
<td>15,911,650</td>
</tr>
<tr>
<td>Series 2013 A</td>
<td>5,525,000</td>
<td>569,625</td>
<td>6,094,625</td>
<td>6,094,625</td>
</tr>
<tr>
<td>Series 2012 A</td>
<td>4,070,000</td>
<td>312,000</td>
<td>4,382,000</td>
<td>4,382,000</td>
</tr>
<tr>
<td>Series 2009 B</td>
<td>30,895,000</td>
<td>2,151,456</td>
<td>33,046,456</td>
<td>32,293,446</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>240,535,000</strong></td>
<td><strong>30,488,694</strong></td>
<td><strong>271,023,694</strong></td>
<td><strong>270,270,684</strong></td>
</tr>
</tbody>
</table>
PROPOSED MAXIMUM ISSUANCE OF NEW DEBT FOR FY2021

$75,000,000
The 2019 6-Year Capital Plan has been developed from several sources:
1. Projects recommended for funding by the CIP Policy Review Committee and the Planning Commission are the basis for the first year (2019) in the Plan.
2. Previously approved projects that were identified as “phased” have the subsequent phases budgeted in the Plan.
3. The NSB Repair & Replacement Schedule has been used to calculate the remaining useful life of all of the Borough’s building, equipment and infrastructure assets. This comprehensive database is used to forecast when capital upgrades are necessary by comparing the estimated useful life of an asset and its many parts to their installation dates.
NORTH SLOPE BOROUGH PLANNING COMMISSION
RESOLUTION 2019-09

A RESOLUTION RECOMMENDING THAT THE NORTH
SLOPE BOROUGH ASSEMBLY APPROVE THE 2019
CAPITAL IMPROVEMENTS PROGRAM

WHEREAS, North Slope Borough Municipal Code (NSBMC) § 19.30.050(B) requires the North Slope Borough Planning Commission (Planning Commission) to annually review the Borough’s Capital Improvements Program (CIP) and submit its recommendations on the plan to the Assembly; and

WHEREAS, pursuant to NSBMC 3.15.010, the Capital Improvements Program consists of a six-year plan that includes the projects in the capital budget, outlines proposed capital projects for the following five years and provides a summary of unfinished capital projects; and

WHEREAS, the Department of Planning and Community Services developed a proposed 2019 six year capital plan based on projects proposed by Borough departments and each North Slope community; and

WHEREAS, on May 30, 2019, the Planning Commission considered said plan during its Regular meeting.

NOW THEREFORE BE IT RESOLVED:

The North Slope Borough Planning Commission recommends that the North Slope Borough Assembly approve the Capital Improvements Program attached as Exhibit 1.

THAT a copy of this Resolution be forwarded to the North Slope Borough Clerk.

INTRODUCED:  May 30, 2019
ADOPTED: May 30, 2019

Paul Bodfish Sr., Chairman
Date: May 30, 2019

Lupita Henry, Clerk
Date: May 30, 2019
## 2019-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSBSD Infrastructure Improvements, $500,000 for AKP</td>
<td>AW Street Lighting, $21,000 for AKP</td>
</tr>
<tr>
<td>AKP Water and Sewer Connections, $1,850,000</td>
<td>AW Power Generation Upgrade, $143,000 in AKP</td>
</tr>
<tr>
<td>AW Water Systems Major Repairs, $395,000 for AKP</td>
<td>Light Duty Vehicles, $94,000 in AKP</td>
</tr>
<tr>
<td>AW Sewer Systems Major Repairs, $131,000 for AKP</td>
<td>S&amp;R Fuel Truck with 5000 gal tank, $62,000 in AKP</td>
</tr>
<tr>
<td>AW Water System Equipment, $24,000 for AKP</td>
<td>Village Heavy Equip Major Repair, $55,000 in AKP</td>
</tr>
<tr>
<td>AW Power Grid Preservation, $71,000 for AKP</td>
<td>AKP Heavy Equipment Replacement, $104,000</td>
</tr>
<tr>
<td>AW Water Dist. Pump Variable Frequency Drives, $50,000 for AKP</td>
<td>Windows Server 2016 Active Directory Upgrades, $140,000 split amongst 8 communities</td>
</tr>
</tbody>
</table>

## 2019 City Council Priorities

1. Water/Sewer Hook Ups
2. Subdivision
3. Multi-Purpose Building
4. Renovation / Upgrading Residential Housing
5. Dust Control

## Status of Major Projects

- A rock crusher had been delivered to AKP to address the gravel shortage
- The AKP museum access road has not yet been constructed due to gravel shortage
- A scope of work for the AKP secondary water well is underway
- 10 water and sewer service connections have been recommended for funding this year; there are still additional connections needed that remain unfunded
- Construction of the new sewage lagoon and the secondary leach field have been completed and received final ADEC approval
- AKP airport permanent lighting has been repaired and is operational
- The AKP power plant upgrade design is complete
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use
- New generation LED street light fixtures have been delivered and installed

## Anticipated Capital Needs

- Subdivision development / relocation
- Additional water & sewer connections
- Power plant upgrade
- Airport: fencing and snow removal equipment
- Snow fence repair and upgrade
- The NSB Administration Building/Public Works building replacement facility

## Anaktuvuk Pass Comprehensive Plan Select Capital Needs

<table>
<thead>
<tr>
<th>Capital Need</th>
<th>Action/Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research alternative energy feasibility</td>
<td>Replace Public Works building</td>
</tr>
<tr>
<td>Address housing overcrowding/construct additional homes</td>
<td>Develop recreational facilities, including outdoor ballfield, indoor facility for youth and indoor playground</td>
</tr>
<tr>
<td>Dust control</td>
<td>Relocate NSB Administrative Office</td>
</tr>
<tr>
<td>Retrofit homes for energy efficiency</td>
<td>Upgrade and expand City Hall building</td>
</tr>
<tr>
<td>Install airport restrooms for weekend/holiday use</td>
<td>Evaluate potential contamination at former power plant</td>
</tr>
</tbody>
</table>
### 2019-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Budget Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSBSD Infrastructure Improvements, $500,000 in ATQ</td>
<td>AW Power Generation Upgrade, $143,000 in ATQ</td>
</tr>
<tr>
<td>AW Water Systems Major Repairs, $219,000 in ATQ</td>
<td>Light Duty Vehicles, $94,000 in ATQ</td>
</tr>
<tr>
<td>W&amp;S Facilities HVAC &amp; Digital Control Upg, $78,000 in ATQ</td>
<td>S&amp;R Fuel Truck with 5000 gal tank, $62,000 in ATQ</td>
</tr>
<tr>
<td>AW Sewer Systems Major Repairs, $73,000 for ATQ</td>
<td>ATQ Heavy Equipment Replacement, $51,000</td>
</tr>
<tr>
<td>AW Water System Equipment, $46,000 for ATQ</td>
<td>Vill. Upfund Heavy Equip. Major Repair, $60,000 in ATQ</td>
</tr>
<tr>
<td>ATQ Airport Rehabilitation, $2,100,000</td>
<td>Windows Server 2016 Active Directory Upgrades, $140,000 split amongst 8 communities</td>
</tr>
<tr>
<td>AW Power Grid Preservation, $146,000 for ATQ</td>
<td></td>
</tr>
<tr>
<td>AW Street Lighting, $21,000 in ATQ</td>
<td></td>
</tr>
</tbody>
</table>

### Status of Major Projects

- **ATQ cemetery roads design** is on hold due to NSB and community concerns regarding gravel.
- **Meade River School renovations** are funded to completion.
- The design complete for extending the water & sewer system construction is on hold to determine if the upgrades to the Wainwright and Point Hope WWTPs are successful and can be emulated in Atqasuk. The Atqasuk WWTP is at capacity and cannot add additional service connections.
- The design for the Fuel Tank Truck Loading Racks is complete and construction process is underway.
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use.

### 2019 City Council Priorities

- **Water/Sewer Connections for Off-Grid Homes**
- **Increased Water/Sewer Capacity for Off Grid Homes**
- **Rock/Gravel/Clay Source Survey and Study**
- **Natural Gas Development Analysis**
- **Gravel for Airport and Water/Sewer Connections**
- **Expand Housing Capacity or Possible Apartments**

### Atqasuk Comprehensive Plan Select Capital Needs

- Develop Atqasuk Transmission Line
- Playground equipment upgrade / replacement
- Upgrade roads to both cemeteries
- Develop a teen center / senior center
- Rehabilitate existing vacant housing
- Develop a daycare facility
- Construct new homes
- Develop a washeteria with showers
- Continue evaluation of local material source

### Anticipated Capital Needs

- Water / sewer connections
- Road to Utqiagvik
- Major upgrades to the power plant
- Waste heat loop upgrade
### 2019-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSBSD Infrastructure Improvements, $500,000 in KAK</td>
<td>Village Power Distribution, $1,500,000 for KAK</td>
</tr>
<tr>
<td>AW Water Systems Major Repairs, $389,000 in KAK</td>
<td>AW Power Generation Upgrade, $143,000 in KAK</td>
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<tr>
<td>W&amp;S Facilities HVAC &amp; Digital Control Upg, $78,000 in KAK</td>
<td>Light Duty Vehicles, $94,000 in KAK</td>
</tr>
<tr>
<td>AW Water System Equipment, $41,000 for KAK</td>
<td>S&amp;R Fuel Truck with 5000 gal tank, $62,000 in KAK</td>
</tr>
<tr>
<td>AW Sewer Systems Major Repairs, $130,000 for KAK</td>
<td>Vill. Upfund Heavy Equip. Major Repair, $55,000 in KAK</td>
</tr>
<tr>
<td>Waste Heat Recovery, $3,700,000 for KAK</td>
<td>Windows Server 2016 Active Directory Upgrades, $140,000 split amongst 8 communities</td>
</tr>
<tr>
<td>AW Power Grid Preservation, $71,000 for KAK</td>
<td></td>
</tr>
</tbody>
</table>

### 2019 City Council Priorities

1. Waste Heat Trace at the Harold Kaveolook School
2. Emergency Evacuation Bridge / Road to Mainland
3. Utilidor Upgrades / Water & Sewer Plant
4. School PA System
5. Museum / Multi-Purpose Building / Shop / Teen Center / Heritage Center
6. Housing

### Status of Major Projects

- Performance testing for WWTP upgrades is underway
- Waste heat loop is in design
- The power plant upgrade is complete
- The work plan for the KIC tank farm remediation has recently completed
- The outfall sewage line replacement was funded and an RFP for design work will be released soon
- The south water tank is currently being repaired
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use
- Additional street lighting fixtures have been purchased and will be installed when they arrive in the village

### Kaktovik Comprehensive Plan

#### Select Capital Needs

- Continue to improve utilities, infrastructure, and facilities for resilience. Employ feasible alternative energy sources.
- Protect and preserve fresh water source
- Monitor and overcome permafrost subsidence
- Impacts to facilities and infrastructure
- Upgrade sewer system capacity (work is in progress) The power plant upgrade is complete
- Evaluate wind power generation (in design)
- Develop a non-impactful snow dump site
- Improve street lighting (recently completed)

### Anticipated Capital Needs

- Snow Fences
- Recreational / multi-purpose facilities
- Coastal erosion mitigation
- Old airport site remediation
- Increase gravel stockpile reserve
- Landfill containment improvements
- Year-round water pumping source
2019-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSBSD Infrastructure Improvements, $500,000 in NUI</td>
<td>AW Street Lighting, $21,000 in NUI</td>
</tr>
<tr>
<td>Road Improvements, $1,900,000</td>
<td>AW Power Generation Upgrade, $143,000 in NUI</td>
</tr>
<tr>
<td>AW Water Systems Major Repairs, $405,000 in NUI</td>
<td>Light Duty Vehicles, $94,000 in NUI</td>
</tr>
<tr>
<td>AW Power Grid Preservation, $71,000 for NUI</td>
<td>NUI Heavy Equipment Replacement, $51,000</td>
</tr>
<tr>
<td>AW Sewer Systems Major Repairs, $135,000 for NUI</td>
<td>S&amp;R Fuel Truck with 5000 gal tank, $62,000 in NUI</td>
</tr>
<tr>
<td>AW Water System Equipment, $49,000 for NUI</td>
<td>Village Upfund Heavy Equip Major Repair, $55,000 in NUI</td>
</tr>
<tr>
<td>W&amp;S Facilities-HVAC &amp; Digital Control Upgrades, $78,000 in NUI</td>
<td>Windows Server 2016 Active Directory Upgrades, $140,000 split amongst 8 communities</td>
</tr>
</tbody>
</table>

Status of Major Projects

- The lift station pumps at Trapper School have been installed and are operational
- The design for the waste heat loop recovery was temporarily on hold; the design contractor will begin work shortly
- The design for the fuel tank truck loading racks is complete and a construction contractor has been hired
- The design for the power plant upgrade is complete and is currently out for bid
- Design is complete for water/sewer connections, fire protection area expansion, & larger main but lacks construction funding
- Vertical support members for gas skidder are installed at Alpine. The gas skid module and tower are under construction in Louisiana with estimated shipping to Alpine on the 2019-2020 ice road
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use

2019 City Council Priorities

1. Nuiqsut Airport Runway (funded project)
2. City Building and City Property Upgrades and Renovations
3. Cultural Heritage Center
4. Natural Gas Hook-up on Nutaagvik and Ericklook Streets
5. Freshwater Lake Road Upgrade (ongoing)
6. Nuiqsut Access Roads Surface Upgrade
7. Road Access to Lots on Freshwater Lake Road

Anticipated Capital Needs

- Road resurfacing is needed throughout the village
- PW Shop Replacement
- Water and sewer extensions to new subdivision
- Community washeteria
2019-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Cost and Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSBSD Infrast. Improve., $500,000 for PHO</td>
<td>Power Generation Upg., $143,000 in PHO</td>
</tr>
<tr>
<td>AW Water Dist. Pump Variable Frequency Drives, $50,000 for PHO</td>
<td>W&amp;S Facilities-HVAC &amp; Digital Control Upgrades, $78,000 in PHO</td>
</tr>
<tr>
<td>Water System Major Repairs, $752,000 in PHO</td>
<td>Light Duty Vehicles, $94,000 in PHO</td>
</tr>
<tr>
<td>Secondary Water Source, $3,595,000 in PHO</td>
<td>PHO Heavy Equip Replacement, $103,000</td>
</tr>
<tr>
<td>Heat Trace Upgrades, $2,072,000 in PHO</td>
<td>S&amp;R Fuel Truck with 5000 gal tank, $62,000 in PHO</td>
</tr>
<tr>
<td>AW WWTP Upgrades, $266,000 in PHO</td>
<td>Village Upfund Heavy Equip Major Repair, $55,000 in PHO</td>
</tr>
<tr>
<td>AW WWTP Upgrades, $266,000 in PHO</td>
<td>Windows Server 2016 Active Directory Upgrades, $140,000 split by 8 communities</td>
</tr>
<tr>
<td>Sewer Systems Maj Repairs, $251,000 in PHO</td>
<td></td>
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<tr>
<td>Water Sewer Equipment, $33,000 in PHO</td>
<td></td>
</tr>
<tr>
<td>Power Grid Preservation, $71,000 in PHO</td>
<td></td>
</tr>
</tbody>
</table>

Status of Major Projects

- Approximately 1/3 of the water & sewer heat trace panels have been replaced and the others are expected to be replaced by October.
- The design work for upgrades to the wastewater treatment plant are complete and an RFP will be issued this summer for construction.
- The flooring in Tikigaq School is nearly complete.
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use.
- Additional street lighting fixtures have been purchased and will be installed when they arrive in the village.

2019 City Council Priorities

1. Erosion
2. Ice Cellar
3. Evacuation Road / Shelter
4. Gravel and Rock
5. New Housing
6. New Landfill
7. Integrity of NSB Facilities
8. Streetlights
9. Water and Sewer Upgrade
10. Washeteria
11. Boat Ramp for North and South sides
12. New Recreation Teen Center

Anticipated Capital Needs

- Landfill relocation farther from the village
- Continued water storage tank upgrades
- The old NSB Search & Rescue building needs upgrades
- Evacuation road
- Secondary water source
- Health Clinic upgrades
- Coastal erosion mitigation
- Road resurfacing
- Sewer main line upgrades

Point Hope Comprehensive Plan Select Capital Needs

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assess feasibility of airport relocation</td>
<td>Research alternative energy feasibility, especially wind</td>
</tr>
<tr>
<td>Construct evacuation road</td>
<td>Additional recreational facilities, including ball field, meeting places, teen center, playgrounds, removable docks</td>
</tr>
<tr>
<td>Address housing overcrowding</td>
<td></td>
</tr>
<tr>
<td>New water source location</td>
<td>Repair needed for community facilities: Health Clinic, Senior Center, City Hall, PW Building, Tribal Office</td>
</tr>
<tr>
<td>Seek gravel source</td>
<td></td>
</tr>
</tbody>
</table>
2019-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Budget</th>
</tr>
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<tbody>
<tr>
<td>NSBSD Infrastructure Improvements, $500,000 in PIZ</td>
<td></td>
</tr>
<tr>
<td>AW Water Systems Major Repairs, $196,000 in PIZ</td>
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</tr>
<tr>
<td>Water Dist. Pump Variable Frequency Drives, $50,000 for PIZ</td>
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<tr>
<td>PIZ Drinking Water Source Development, $3,600,000</td>
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<tr>
<td>W&amp;S Facilities-HVAC &amp; Digital Control Upgrades, $78,000 in PIZ</td>
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<tr>
<td>AW Sewer Systems Major Repairs, $65,000 for PIZ</td>
<td></td>
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<tr>
<td>AW Water System Equipment, $81,000 for PIZ</td>
<td></td>
</tr>
<tr>
<td>AW Power Grid Preservation, $131,000 for PIZ</td>
<td></td>
</tr>
<tr>
<td>AW Street Lighting, $20,000 in PIZ</td>
<td></td>
</tr>
<tr>
<td>AW Power Generation Upgrade, $143,000 in PIZ</td>
<td></td>
</tr>
<tr>
<td>Fire Station Floor Repair Replacement, $900,000 in PIZ</td>
<td></td>
</tr>
<tr>
<td>Light Duty Vehicles, $94,000 in PIZ</td>
<td></td>
</tr>
<tr>
<td>S&amp;R Fuel Truck with 5000 gal tank, $62,000 in PIZ</td>
<td></td>
</tr>
<tr>
<td>PIZ Heavy Equipment Replacement, $110,000</td>
<td></td>
</tr>
<tr>
<td>Vill. Upfund Heavy Equip Major Repair, $55,000 in PIZ</td>
<td></td>
</tr>
<tr>
<td>Windows Server 2016 Active Directory Upgrades, $140,000 split amongst 8 communities</td>
<td></td>
</tr>
</tbody>
</table>

Status of Major Projects

- Conceptual alternatives for water and sewer system with community drainage and stabilization planning document is currently under review
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use
- The new snow fence has been installed
- The sewage outfall pipeline upgrade is complete
- 12 sewage holding tanks have been installed and the issues with anchoring have been fixed
- A new refuse truck is on order and will be delivered this summer
- The septage receiving station will be installed in early to mid 2020, replacing the need for a sewage lagoon
- Additional street light fixtures for the boat ramp and block 900 are in route to the community
- New bleachers are being purchased for Kali School

Anticipated Capital Needs

- The water storage tank needs a roof replacement, insulation, and recoating
- Structural piling improvements due to subsidence after fill and drainage improvements have been made
- Electrical metering upgrades are needed
- Auger truck with 30 ft. pile depths
- Replacement for dump truck is needed
- An alternative above-ground water & sewer system

Point Lay Comprehensive Plan Select Capital Needs

- Abandon wastewater system as needed and install individual holding tanks
- Gravel source investigations and assess gravel stockpile
- Street lighting to boat ramp / dock
- Develop outdoor ballfield
- Fix and maintain areas of subsidence that have affected roadway
- Reopen washeteria
- Renovations for older homes and home weatherization improvements
- Develop a childcare facility
**2019-10 RECOMMENDED PROJECTS**

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Budget</th>
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<tbody>
<tr>
<td>NSBSD Infrastructure Improvements, $500,000 in BRW</td>
<td>Light Duty Vehicles, $94,000 in BRW</td>
</tr>
<tr>
<td>Barrow Arctic Research Center Road, $3,000,000</td>
<td>BRW Wildlife Facility, Phase II, $11,342,000</td>
</tr>
<tr>
<td>Gaswell Road Upgrade, Phase I, $1,900,000</td>
<td>Shop II Upgrade, $675,000</td>
</tr>
<tr>
<td>BUS Service Connections Upgrades, $647,000</td>
<td>BRW Heavy Equip Replacement Shop II, $1,282,000</td>
</tr>
<tr>
<td>BUS Pump Station 5 Upgrades, $2,227,000</td>
<td>Barrow Sanitation Shop III, $350,000</td>
</tr>
<tr>
<td>BUS Repairs &amp; Upgrades, $2,000,000</td>
<td>S&amp;R Fuel Truck with 5000 Gallon Tank, $62,000</td>
</tr>
<tr>
<td>East End Barrow Utilities Installation, $1,500,000</td>
<td>Barrow Heavy Equipment Major Repairs, $390,000</td>
</tr>
<tr>
<td>BRW Landfill Phase V Development, $1,700,000</td>
<td>Windows Server 2016 Active Directory Upgrades, $133,000 split amongst 8 communities</td>
</tr>
</tbody>
</table>

**STATUS OF MAJOR PROJECTS**

- Residential Learning Center design is complete and renovation is anticipated to begin this summer
- Construction of phase I of the Tom Gordon Expressway is underway
- Design upgrades to Gaswell Road from Cakeeater to the Landfill/Maagaq Road will begin this summer
- Design should begin soon for upgrades to Pump Station 5
- The NARL natural gas line replacement project is on hold pending construction funding
- The design for the new cell 4 and closure of cell 2 are complete. Construction is funded and will begin soon
- The design for the new Ilisagvik College campus is in concept phase. Additional funding will be needed to complete design and for construction
- New antennas have been installed at Walakpa and the computer upgrade is complete
- A new PSO/jail facility is in design and will be completed once land is purchased for the facility
- The BHSPool renovation design is nearly complete and there is funding for construction
- Land assessment and purchase negotiations are underway for an Integrated Behavioral Health Campus
- Pump Station 4 work is complete
- The Barrow Gas Field Microturbines project is complete
- A new fire engine for Barrow arrived last summer

**ANTICIPATED CAPITAL NEEDS**

<table>
<thead>
<tr>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ipalook Elementary School and Hopson Middle School are both in need of major maintenance upgrades, including playgrounds</td>
</tr>
<tr>
<td>A NSB consolidated administrative facility will be needed</td>
</tr>
<tr>
<td>New PSO / jail facility</td>
</tr>
<tr>
<td>A seawall for erosion control is needed. The Army Corps of Engineers/NSB project to address coastal erosion has community support for federal funding</td>
</tr>
<tr>
<td>Additional water and sewer connections are needed</td>
</tr>
<tr>
<td>New antennas have been installed at Walakpa and the computer upgrade is complete</td>
</tr>
<tr>
<td>Complete the Residential Learning Center remodel</td>
</tr>
<tr>
<td>A new PSO/jail facility is in design and will be completed once land is purchased for the facility</td>
</tr>
<tr>
<td>The BHS pool renovation design is nearly complete and there is funding for construction</td>
</tr>
<tr>
<td>Land assessment and purchase negotiations are underway for an Integrated Behavioral Health Campus</td>
</tr>
<tr>
<td>Pump Station 4 work is complete</td>
</tr>
<tr>
<td>The Barrow Gas Field Microturbines project is complete</td>
</tr>
<tr>
<td>A new fire engine for Barrow arrived last summer</td>
</tr>
</tbody>
</table>
## 2019-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSBSD Infrastructure Improvements, $500,000 in AIN</td>
<td>AW Power Grid Preservation, $72,000 for AIN</td>
</tr>
<tr>
<td>AIN Water Treatment Plant Upgrade, $9,558,000</td>
<td>AW Power Generation Upgrade, $142,000 in AIN</td>
</tr>
<tr>
<td>AW Water Storage Tank Upgrades, $2,400,000 for AIN</td>
<td>Light Duty Vehicles, $92,000 in AIN</td>
</tr>
<tr>
<td>AW Water Systems Major Repairs, $644,000 in AIN</td>
<td>S&amp;R Fuel Truck with 5000 gal tank, $62,000 in AIN</td>
</tr>
<tr>
<td>Water Dist. Pump Variable Frequency Drives, $50,000 for AIN</td>
<td>Wainwright Heavy Equipment Replacement, $701,000</td>
</tr>
<tr>
<td>W&amp;S Facilities HVAC &amp; Digital Control Upgr, $77,000 in AIN</td>
<td>Vill. Upfund Heavy Equip. Major Repair, $55,000 in AIN</td>
</tr>
<tr>
<td>AW Sewer Systems Major Repairs, $215,000 for AIN</td>
<td>Windows Server 2016 Active Directory Upgrades, $140,000 split amongst 8 communities</td>
</tr>
<tr>
<td>AW Water System Equipment, $26,000 for AIN</td>
<td></td>
</tr>
</tbody>
</table>

## 2019 Wainwright Steering Committee Priorities

1. Replace Public Works Building
2. Power Plant
3. Water & Wastewater Treatment Plant
4. Gravel Acquisition
5. Alak School Upgrade
6. Expansion of Maqpik road and driveways
7. Housing
8. Community Wide Drainage and Culverts – Road Lifting
9. Cultural Center / Daycare and Community Center
10. Expansion of Panik Road
11. Tapqaq Bar Access Road
12. Coastal Erosion Mitigation
13. Airport Passenger Terminal
14. Mini Hub

## Status of Major Projects

- The sewage outfall pipeline replacement is complete.
- The design work for the landfill expansion is underway.
- Alak School renovation design has been funded and will begin soon.
- The wastewater treatment plant lift station upgrade is in design.
- The design for new a snow fence is nearly complete and property easement negotiations are underway.
- The man camp to replace itinerant housing and make more housing available to residents is complete.
- The temporary Public Works facility is almost complete.
- Demolition of the existing Public Works building and construction of the new permanent facility will occur while services to the community are provided from the temporary building.
- An RFP has been released for Tank 1 design repair.
- Water storage upgrade design work will begin this summer.
- The water plant SCADA system design is 95% complete. The design firm is working on 100% completion with bid documents. Currently, there is not funding for construction.

## Wainwright Comprehensive Plan Select Capital Needs

- Goal 1. Develop a cultural center and daycare center
- Goal 2. Potential airport relocation, docking facility and boat launch at Tupkak Bar Road
- Goal 3. Facility demolition recycling program, flag winter transportation routes for snowmachine travelers
- Goal 4. Develop multi-use facility
- Goal 5. Fiber optic upgrade
## Current Capital Improvements Financial Summary

### Section 6: Educational Facilities

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Start FY</th>
<th>Close FY</th>
<th>Total Appropriations to Date</th>
<th>Current Unencumbered (as of 2019)</th>
<th>2019-20 Funding</th>
<th>Road Fund FY 2009-2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>District-wide Facility Upgrades (succeeded by 06-201)</td>
<td>2007</td>
<td>2019</td>
<td>$9,169,000</td>
<td>$197,997</td>
<td></td>
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</tr>
<tr>
<td>Kali School Major Renovations</td>
<td>2010</td>
<td>2019</td>
<td>$40,642,000</td>
<td>$39,710</td>
<td></td>
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<tr>
<td>Meade River School Renovation</td>
<td>2014</td>
<td>2019</td>
<td>$16,523,000</td>
<td>$10,197</td>
<td></td>
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<tr>
<td>BRW Residential Learning Support</td>
<td>2015</td>
<td>2019</td>
<td>$9,928,000</td>
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<tr>
<td>06-201 District-wide Infrastructure Improvements</td>
<td>2017</td>
<td>TBD</td>
<td>$9,348,145</td>
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<tr>
<td>06-202 BHS Renovation Phase I</td>
<td>2018</td>
<td>TBD</td>
<td>$40,642,000</td>
<td>$40,642,000</td>
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<tr>
<td>06-203 Ask School Renovation Phase I</td>
<td>2018</td>
<td>TBD</td>
<td>$16,523,000</td>
<td>$16,523,000</td>
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<tr>
<td>06-204 Ilisagvik College New Facility Design Phase I</td>
<td>2018</td>
<td>TBD</td>
<td>$1,000,000</td>
<td>$1,000,000</td>
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</table>

### Section 7: Roads, Streets, and Watercourses

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Start FY</th>
<th>Close FY</th>
<th>Total Appropriations to Date</th>
<th>Current Unencumbered (as of 2019)</th>
<th>2019-20 Funding</th>
<th>Road Fund FY 2009-2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>07-230 Plating and Survey of Dedicated Rights of Way NSB Property</td>
<td>1997</td>
<td>2019</td>
<td>$614,000</td>
<td>$518,000</td>
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<tr>
<td>07-239 AW Snow Fencing Upgrades</td>
<td>2002</td>
<td>2019</td>
<td>$7,703,000</td>
<td>$7,400,000</td>
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<tr>
<td>07-241 AW Emergency Response</td>
<td>2002</td>
<td>2019</td>
<td>$6,064,000</td>
<td>$5,839,000</td>
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<tr>
<td>07-250 AW Culvert Repair &amp; Replacement</td>
<td>2006</td>
<td>2019</td>
<td>$710,000</td>
<td>$690,000</td>
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<tr>
<td>07-251 BRW Arctic Research Center Road</td>
<td>2007</td>
<td>2023</td>
<td>$12,713,000</td>
<td>$3,000,000</td>
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<td></td>
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<tr>
<td>07-257 ATQ Cemetery Road Upgrade &amp; Repair Design</td>
<td>2012</td>
<td>2019</td>
<td>$200,000</td>
<td>$199,000</td>
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<td></td>
</tr>
<tr>
<td>07-268 BRW Coastal Erosion Mitigation</td>
<td>2013</td>
<td>TBD</td>
<td>$12,900,000</td>
<td>$12,900,000</td>
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<tr>
<td>07-269 PHO Coastal Erosion Mitigation &amp; Mining</td>
<td>2013</td>
<td>TBD</td>
<td>$4,330,000</td>
<td>$4,330,000</td>
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<tr>
<td>07-270 BRW Nunavak Road Upgrade</td>
<td>2014</td>
<td>2022</td>
<td>$500,000</td>
<td>$4,884</td>
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<tr>
<td>07-271 PHO Road Resurfacing</td>
<td>2015</td>
<td>2019</td>
<td>$400,000</td>
<td>$399,000</td>
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<tr>
<td>07-272 AW gravel</td>
<td>2016</td>
<td>TBD</td>
<td>$9,151,000</td>
<td>$2,798,000</td>
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<tr>
<td>07-273 AW Road Stabilization Upgrade</td>
<td>2016</td>
<td>2019</td>
<td>$875,000</td>
<td>$71,000</td>
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<tr>
<td>07-274 Point Lay Grading &amp; Drainage Improvements</td>
<td>2016</td>
<td>2019</td>
<td>$1,000,000</td>
<td>$961,000</td>
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<tr>
<td>07-275 Point Hope New Subdivision Roads</td>
<td>2016</td>
<td>2019</td>
<td>$375,000</td>
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<tr>
<td>07-276 Barrow Road Improvement</td>
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<td>$1,000,000</td>
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<td>07-277 Nuiqsut Road Improvements</td>
<td>2018</td>
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<td>$294,000</td>
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<td>07-279 Barrow Gaswell Road Upgrades Phase I</td>
<td>2018</td>
<td>TBD</td>
<td>$100,000</td>
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### Section 8: Public Housing

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Start FY</th>
<th>Close FY</th>
<th>Total Appropriations to Date</th>
<th>Current Unencumbered (as of 2019)</th>
<th>2019-20 Funding</th>
<th>Road Fund FY 2009-2022</th>
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### Section Totals

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### Capital Projects by Ordinance Section

#### Section 9 - Water Facilities

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<th>Current Encumbered (April 2019)</th>
<th>Fiscal Year Funding</th>
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<td>09-121 Utilidor Major Repairs/Upgrades (BUS) (succeeded by 10-125)</td>
<td>2001</td>
<td>2019</td>
<td>$10,381,000</td>
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<td>New 09-159 AW Secondary Water Source</td>
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**Section Totals:** $72,398,702 $6,594,020 $5,959,035 $25,317,000

#### Section 10 - Sewage Treatment Disposal Facilities

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<th>Current Encumbered (April 2019)</th>
<th>Fiscal Year Funding</th>
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<td>10-107 AW Sewage Tanks</td>
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<td>$6,523,000</td>
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<td>10-111 AW Sewage Lagoon Upgrades</td>
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<td>2023</td>
<td>$6,405,000</td>
<td>$5,580,975</td>
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<td>10-115 Katsivok WWTP Expansion</td>
<td>2014</td>
<td>2020</td>
<td>$782,000</td>
<td>$90,863</td>
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<td>10-117 PHO Sewer Main Line Upgrade</td>
<td>2014</td>
<td>2022</td>
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<td>$88,491</td>
<td>$78,406</td>
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<td>10-118 AW Treated Effluent Outfall Pipeline Upgrades</td>
<td>2015</td>
<td>2022</td>
<td>$2,032,000</td>
<td>$1,255,068</td>
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<td>10-119 Point Hope Heat Trace Panel Upgrades</td>
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<td>2020</td>
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<td>10-122 PHO WWTP Upgrades</td>
<td>2016</td>
<td>2022</td>
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<td>$994,559</td>
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<td>2017</td>
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<td>10-124 PIZ WWTP Receiving Station</td>
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<td>$10,047,000</td>
<td>$9,040,485</td>
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<td>10-125 Barrow Utilidor System Upgrades (successor to 09-121)</td>
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<td>TBD</td>
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<td>$2,337,713</td>
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<td>10-126 AW Water Sewer Equipment</td>
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**Section Totals:** $38,268,351 $25,144,721 $6,312,324 $7,865,000
## Section 11 - Airport Terminal Facilities

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<th>Project Name</th>
<th>Start Year</th>
<th>Close Year</th>
<th>CURRENT Appropriations</th>
<th>CURRENT Unclassified</th>
<th>2019-2020 Funding</th>
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<td>Areawide Airport Upgrades</td>
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<td>2019</td>
<td>$14,005,000</td>
<td>$2,688,154</td>
<td>$104,675</td>
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<td>New Barter Island Airport</td>
<td>2009</td>
<td>2019</td>
<td>$2,613,000</td>
<td>$710,169</td>
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<tr>
<td>Nabotov Airport Relocation</td>
<td>2012</td>
<td>2019</td>
<td>$46,589,000</td>
<td>$3,005,299</td>
<td>$36,944</td>
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<td>HUI Airport Rehabilitation</td>
<td>2016</td>
<td>2022</td>
<td>$20,182,000</td>
<td>$1,377,715</td>
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<td>ATQ Airport Rehabilitation</td>
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<td>2023</td>
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<td>$32,065</td>
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<td>AW Airport Passenger Shelters</td>
<td>2017</td>
<td>2022</td>
<td>$300,000</td>
<td>$296,167</td>
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<td>AKP Airport Lighting</td>
<td>2018</td>
<td>2022</td>
<td>$1,870,000</td>
<td>$32,065</td>
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### Section Totals
- $86,736,000
- $8,069,569
- $11,260,530
- $2,100,000

## Section 12 - Light, Power and Heating Systems

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<th>CURRENT Appropriations</th>
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<th>2019-2020 Funding</th>
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<td>AW Hazardous Material Disposal</td>
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<td>2019</td>
<td>$8,821,000</td>
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<td>AW Waste Heat Recovery</td>
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<td>$9,063,000</td>
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<td>AW Fuel Tank Upgrades</td>
<td>2005</td>
<td>2021</td>
<td>$1,728,000</td>
<td>$768,397</td>
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<td>AW Wind Generation</td>
<td>2005</td>
<td>T00</td>
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<td>AW Power Grid Preservation</td>
<td>2009</td>
<td>T00</td>
<td>$2,813,000</td>
<td>$610,208</td>
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<td>Village Power Distribution Grid Upgrades</td>
<td>2011</td>
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<td>$17,004,000</td>
<td>$4,402,715</td>
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<td>Huijov H2S Gas Scrubber</td>
<td>2011</td>
<td>2021</td>
<td>$6,000,000</td>
<td>$2,839,621</td>
<td>$2,004,957</td>
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<td>AW Fuel Truck Loading Rack Installation &amp; Upgrades</td>
<td>2011</td>
<td>2022</td>
<td>$5,122,000</td>
<td>$1,522,000</td>
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<td>AW Electrical Metering Upgrades</td>
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<td>AW Street Lighting</td>
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<td>$482,092</td>
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<td>$5,446,000</td>
<td>$287,046</td>
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<td>AW Fuel Spill Response</td>
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<td>$592,335</td>
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<td>BRW Marine Header &amp; Pipeline Relocation</td>
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<td>BRW Gasfield Microturbine</td>
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<td>$2,605,722</td>
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### Section Totals
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- $34,426,980
- $19,172,093
- $8,416,000
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<th>Total Appropriations To Date</th>
<th>Current Encumbered (April 2019)</th>
<th>Current Encumbered (April 2020)</th>
<th>Fiscal Year Funding</th>
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<td>14-124 AW Fire Dept. Equipment Upgrade</td>
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<td>$46,810,000</td>
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<td>15-088 Village Landfill Fences</td>
<td>1999</td>
<td>2019</td>
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<tr>
<td>15-095 AW Remediation of Contaminated Sites</td>
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<td>15-099 KIC Tank Farm Pad Remediation</td>
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<td>$798,000</td>
<td>$390,000</td>
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<td>2009</td>
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<td>$390,000</td>
<td>2017</td>
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<td>18-118: AKP Heavy Equipment</td>
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<td>$16,789,000</td>
<td>2019</td>
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**Section Totals:** $129,728,000, $34,387,838, $11,036,947, $16,789,000
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<th>CAPITAL PROJECTS BY ORDINANCE SECTION</th>
<th>PROJECT START FY</th>
<th>PROJECT CLOSE FY</th>
<th>TOTAL APPROPRIATIONS TO DATE</th>
<th>CURRENT UNENCUMBERED FUNDING (April 2019)</th>
<th>2019-10 APPROPRIATIONS FUNDING</th>
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### North Slope Borough Capital Repair and Replacement Schedule Summary

**Report Year**: 2019

**Summary Appraisal of Community Buildings, Infrastructure and Equipment Capital Assets**

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<th>Location</th>
<th>Asset Value</th>
<th>Asset Description</th>
<th>Section</th>
<th>Escalation Years</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
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**Capital Assets by Section**

- Education Facilities
- Roads, Streets & Water Courses
- Public Housing
- Water Facilities
- Sewer Facilities
- Airports
- Power and Light Facilities
- Public Safety Facilities
- Sanitary Facilities
- Communications
- General Capital Facilities
- Health Facilities
- Library and Cultural Facilities
- Administration Facilities

**6 yr Capital Asset Needs Trend**

- **Capital Needs**: $93,657,139
- **Average**: $93,657,139
Value of Assets Reaching the end of their estimated useful life 2019-2024 $562 Million

- Education Facilities, $163,249,615
- Health Facilities, $20,184,289
- General Capital Facilities, $95,467,798
- Communications, $2,092,737
- Sanitary Facilities, $5,911,638
- Public Safety Facilities, $44,225,438
- Power and Light Facilities, $46,455,005
- Airports, $13,478,652
- Roads, Streets & Water Courses, $49,784,438
- Sewer Facilities, $20,722,362
- Water Facilities, $53,528,364
- Administration Facilities, $32,828,782
- Library and Cultural Facilities, $10,006,006

Assets totaling $562 Million in Replacement Value are estimated to reach the end of their useful life during the next six years.

This represents 14% of the total value of the Borough's assets, which is 4.2 Billion.
Value of Capital Assets reaching the end of their estimated useful life each year 2019-2024
$94 Million

- Education Facilities, $27,208,269
- Administration Facilities, $5,471,464
- Health Facilities, $3,364,048
- General Capital Facilities, $15,911,300
- Communications
- Sanitary Facilities, $985,273
- Public Safety Facilities, $7,370,906
- Power and Light Facilities, $7,742,500
- Airports, $2,246,442
- Roads, Streets & Water Courses, $8,297,406
- Water Facilities, $8,921,394
- Sewer Facilities, $3,453,727
- Library and Cultural Facilities
- Sanitary Facilities, $985,273
- Libraries and Cultural Facilities
- Administration Facilities, $5,471,464
The useful life of building components, infrastructure and equipment assets are estimated.

Some assets require replacement before the end of their estimated useful life, however the replacement of many assets can be deferred when upon inspection the Borough chooses to operate them beyond their estimated useful life. These decisions are made on a case by case basis and upgrades are only deferred when they are due.

Assets being operated beyond their estimated useful life in 2018 are valued at 200 Million Dollars.

It is reasonable then to assume that the Borough will always operate some assets beyond their useful life, therefore a capital upgrade plan is proposed that allows some deferment.

The proposed annual budget allows the replacement of all assets estimated to reach the end of their useful life within the next six years to be replaced within 10 years.
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<tr>
<th>Project #</th>
<th>Project Description</th>
<th>2019</th>
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<th>2021</th>
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**SECTION 19 - HEALTH FACILITIES**

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**SECTION 20 - LIBRARY & CULTURAL FACILITIES**

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**SECTION 22 - ADMINISTRATIVE FACILITIES**

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**NEW 22-026** BRW NSB Admin Center Design Phase

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</table>
Planning & Community Services Department and the Mayor’s 2019 Capital Improvement Program Recommendations

Expansion of Services, Facilities and Programs

- The Borough currently manages over 4.2 Billion dollars in capital assets. Assets valued over 200 Million are already being operated beyond their estimated useful life. During the next six years 562 Million in capital assets will reach the end of their estimated useful life.
- When a program expansion is considered, we should also consider where we can reduce our inventory of capital assets in order to afford it.
- Expansion of facilities and programs requiring new capital infrastructure that does not replace infrastructure being operated beyond its useful life should be avoided.

Equipment Budgets

- The current capital budgets for equipment are not adequate.
- The Borough maintains over 1,000 pieces of light and heavy duty equipment.
- During consideration of new equipment purchases, the disposal of old equipment that is being replaced must be considered.

Consolidation of Facilities

- A long term strategy to reduce the total square footage of Borough offices and programs may be to consolidate Borough Facilities in each of our communities to the greatest extent possible.
- Repair/replace existing infrastructure and facilities through 2035 does not appear affordable.
- Replacement projects and PARs for replacement projects should include recommendations and budgets for the re-purposing, disposal or demolition of the existing assets they replace.

Design Standards

- To optimize the useful lives of building systems, design standards should be developed.
- Designs need to fit the budget to insure we are receiving the highest return from capital dollars.

Bonding Capacity

- This Capital Plan suggests that bond sales for the next six years should include a minimum of 56.2 million dollars each year to repair/replace the Borough’s existing infrastructure.
- Looking for ways to unlock already approved capital dollars in the capital program is necessary to supplement shortfalls in underfunded projects or to address unfunded needs.
- General Obligation Bond sales must be supplemented with other funding sources to meet our capital needs.

Fiscal Needs of the North Slope Borough

- The fiscal responsibility of providing employment opportunities, essential services and maintaining the basic capital infrastructure needs of this municipality are not sustainable without increasing revenue. We must not settle for less. We must protect our taxing authority and we must receive our share of revenue from the development of federal reserves within our boundaries.

WHEREAS, on the 6th day of March, 2020, the City of Point Hope met and discussed Point Hope community needs relating to projects proposed by the North Slope Borough, the North Slope Borough School District and the Community of Pt. Hope; and

WHEREAS, the City Council was presented with prioritized lists of projects from all three entities submitted for consideration in the funding of CIP Ordinance 20-10; and

WHEREAS, The Point Hope City Council was asked by the NSB Planning & Community Services to prioritize all projects, including those submitted by the NSB Departments, North Slope Borough School District, as well as the City of Point Hope, submitted for the Village of Point Hope as part of the overall planning and evaluation of the CIP process; and

WHEREAS, In the NSB Assembly Resolution 10-85, “A Resolution Approving & Adopting the Policies Established to Address to the Future Growth and Development of Capital Improvement Projects on the North Slope”, objectives under “Goal D: North Slope Borough will adhere to the City of Point Hope’s desires regarding industrial development infrastructures, project design and priorities. Each village will determine its own priority on traditional versus modern needs”, City of Point Hope and Exact CIP budget amounts will be developed. Local residents will have a major role in determining projects under these budget guidelines; and

NOW THEREFORE, BE IT RESOLVED, the City Council in Point Hope, Alaska, prioritized the projects listed below for consideration and further evaluation by the North Slope Borough Project Recommendation Committee (PRC), the North Slope Borough Planning Commission, and the North Slope Borough Mayor’s Office and the North Slope Borough Assembly and recommend their funding in the order presented.
1. Erosion
2. Evacuation Road/Shelter
3. New Clinic
4. Ice Cellars
5. Gravel and Rock
6. Addition to Fuel Tank
7. New Housing
8. New Qalgi Building
9. New Land Fill
10. Integrity of NSB Facilities
11. Water and Sewer Upgrade
12. CWAT
13. Boat Ramp for North and South Sides
14. New Recreation Center

PASSED and APPROVED by a duly constituted quorum of the City of Point Hope Council this 6th day of March, 2020.

Jeffery Kowunna, Sr., Mayor

Attest:

Roberta Milligrock, City Clerk
RESOLUTION NO. 2020-01

A RESOLUTION OF THE CITY COUNCIL OF ATQASUK, ALASKA PRIORITIZING PROJECTS FOR THE CIP ORDINANCE 2020-10 SUBMITTED BY THE CITY OF ATQASUK.

WHEREAS, on the 3rd day of February 2020, the City of Atqasuk met and discussed Atqasuk community needs relating to projects proposed for the Community of Atqasuk; and

WHEREAS, The City of Atqasuk was asked by the NSB Planning & Community Services to prioritize all projects, and

WHEREAS, in the NSB Assembly Resolution 10-85, "A Resolution Approving & Adopting the Policies Established to Address the Future Growth and Development of Capital Improvement Projects on the North Slope", policies were developed to be used as the guideline for funding and scheduling CIP projects. Planning Commission Resolution 85-01, "A Resolution Approving the Policies Established to Address the CIP and the Future Growth and Development on the North Slope" established these policies: "Goal D: North Slope Borough will Support Village Self-Determination" by "adhering to the desires of each village regarding industrial development infrastructure, project design and priorities. Each village will determine its own priority on traditional versus modern needs" and "Exact CIP budget amounts will be developed for each village. Local residents will have a major role in determining projects under these budget guidelines", and

NOW THEREFORE, BE IT RESOLVED, the City Council in Atqasuk, Alaska, prioritized the projects listed below:

1. Water/Sewer Connections for Off Grid Homes
2. Rock/Gravel/Clay Source Survey and Study
3. Gravel for Airport and Water/Sewer Connections
4. Increased Water/Sewer Capacity for Off Grid Homes
5. NSB Washateria Restoration
6. Power and Heat at Search and Rescue Equipment Hut
7. Replacement Heavy Equipment/Loader
8. Power Plant Waste Heat Exchanger Controls Assessment/Repair

for consideration and further evaluation, by the North Slope Borough Project Recommendation Committee (PRC), the North Slope Borough Planning Commission, and the North Slope Borough Mayor’s Office and the North Slope Borough Assembly and recommend their funding in the order presented, and

NOW THEREFORE, BE IT RESOLVED, the City Council of Atqasuk, Alaska has PASSED and APPROVED by the duly constituted quorum of the Atqasuk City Council on this 3rd day of February 2020.

[Signatures]
City of Atqasuk, Mayor
Date

Attest:
CITY OF KAKTOVIK, ALASKA
RESOLUTION NO. 2020-01

A RESOLUTION OF THE CITY OF KAKTOVIK APPROVING THE FY21 CAPITAL IMPROVEMENT PROJECT REQUESTS FOR THE CITY OF KAKTOVIK

WHEREAS, on January 27, 2020, the people of the City of Kaktovik met and discussed the community needs relating to projects proposed by the North Slope Borough and City of Kaktovik; and

WHEREAS, in the interest of saving time and resources, the North Slope Borough coordinates with the City Councils to develop a combined priority list of the projects to submit for North Slope Boroughs concern for the basic life, safety, and health of the residents of Kaktovik.

NOW THEREFORE BE IT RESOLVED, that the City of Kaktovik, Alaska requests North Slope Borough funding for the projects listed below, in order of priority:

1. Bridge to Mainland For Subsistence
2. Multi-Purpose Subsistence Facility
3. Housing
4. Utilidor Upgrades/Water & Sewer Plant
5. Search & Rescue Building
6. Culverts/Drainage/Road Upgrades
7. Pilings/Housing Upgrades
8. Public Works Heavy Equipment

The foregoing resolution was adopted on this 27th Day of January, 2020 at a duly called City of Kaktovik city council meeting.

Amanda Kaelak, Mayor

Acting City Clerk, Tori Ingllangsak
Resolution 2020-02

A RESOLUTION TO ADD NATIVE VILLAGE OF POINT LAY’S PRIORITY LIST TO NSB/CIP PROJECT PLANNING LIST

WHEREAS: Native Village of Point Lay IRA Council is the governing body for the community of Point Lay under the 1934 Indian Reorganization Act adopted by the tribe and,

WHEREAS: Native Village of Point Lay IRA Council contracts the North Slope Borough for CIP projects and,

WHEREAS: With this list that the community of Point Lay has agreed upon, the North Slope Borough may use this as a future project list for Point Lay Strategic Plan and,

WHEREAS: Each item is listed by high priority to low priority by number and,

WHEREAS: Every letter represents individual projects that are connected to each priority numbered list and,

WHEREAS: The list is as followed and,

#1. Dredge/Location for a Gravel/Silt Pit in connection with;
   a) Foundation repair for homes, porches, and stairs.
   b) Fuel Tank leveling
   c) Replace/Repair leaning power poles.
   d) Gravel placements where subsidence/sinkholes in road systems in the community
   e) Drive ways
   f) Relevel and add foundations to the 700 Block and other lots for settling.
   g) Alternate Emergency Road to airport.
   h) Expand village-new subdivision

#2. Housing in connection with;
   a) Private sector: access to services, and the cost of living expense stalls home improvement in Private Sector
   b) Homelessness/overcrowding
c) Turn over houses to the community  

#3. Water Source in connection with;  
  a) Development of lagoon water wells  

#4. Sewage holding tanks in connection with;  
  a) Promote Enhanced Truck System  

#5. Upgrade for Point Lay Volunteer Search and Rescue Building in connection with;  
  a) SAR Building: Water-heating system-maintenance repair  
  b) Drainage control for yearly flooding  

#6. Store Upgrade in connection with;  
  a) Point Lay needs larger doesn’t meet the needs of the community  

#7. Washeteria/Post Office  

#8. Flooding control in connection with;  
  a) Village Culvert/drainage for flooding.  
  b) Ponds need to be emptied and filled in.  

#9- Demolition of 2 fuel tanks on Old Site-Barrier Island in connection with;  
  a) To prevent contamination into the ocean from fuel still in Old drums from degradation of tanks.  

#10-Winter Road Program  

#11-Upgrade for Fuel Farm Tank  

#12-New Site for Landfill  

#13 Renewable Resources  

NOW THEREFORE BE IT RESOLVED THAT: This is the approved list for the Community of Point Lay for North Slope Borough Planning and,  

CERTIFICATION: This certification that the above resolution was duly adopted at a special meeting of the Native Village of Point Lay IRA Council at which time a quorum was established. This resolution was adopted by a vote of  

___7___ In favor  ____0____Opposed  ____0____Abstain
ADOPTED by duly constituted quorum of the Native Village IRA Council of Point Lay, Alaska, this __20th__ day of February 2020.

President, Lily Anniskett  
Secretary, Julie Itta  
2/20/20
WAINWRIGHT STEERING COMMITTEE
RESOLUTION 2020-01

A RESOLUTION PRIORITIZING PROJECTS
IN WAINWRIGHT, ALASKA FOR THE NORTH SLOPE BOROUGH’S
2020 CAPITAL IMPROVEMENTS PROGRAM

WHEREAS, the North Slope Borough (the “Borough”) identifies and schedules public improvement projects in the North Slope communities in accordance with a Capital Improvements Program (CIP), a six-year plan for current and proposed projects that is developed with input from the communities; and

WHEREAS, in connection with the Borough’s development and funding of the 2020 CIP, members of the Wainwright Steering Committee (the “Committee”), which consists of representatives from the Village of Wainwright, City of Wainwright and Olgoonik Corporation, have met and conferred with Borough personnel regarding projects in the community of Wainwright; and

WHEREAS, at the Borough’s request, the Committee has developed and prioritized a list of current and proposed projects in Wainwright that the Committee believes will best benefit the community.

NOW, THEREFORE, BE IT RESOLVED, that the Committee hereby prioritizes and recommends funding for public improvement projects in the community of Wainwright for the Borough’s 2020 CIP in the order listed below:

1. Replace Public Works Building
2. Power Plant Upgrades
3. Water & Wastewater Treatment Plant Upgrades
4. Alak School Upgrades
5. Housing
6. Retractable Boat Ramp
7. Community-wide Drainage and Culverts – Road Lifting
8. New Landfill
9. Expansion of Panik Road
10. Expansion of Makpik Road and Driveways
11. Gravel Acquisition
12. Tapqaq Bar Access Road
13. Coastal Erosion Mitigation/Sea Wall
14. Airport Passenger Terminal
15. Cultural Center/Day Care and Community Center
16. Mini Hub

Duly Enacted this 21st day of January 2020.

CITY OF WAINWRIGHT

By: Raymond Nashookpuk
Its: Mayor

VILLAGE OF WAINWRIGHT

By: Billy Blair Patkotak, Jr.
Its: President

OLGOONIK CORPORATION

By: Joseph I. Ahmaogak
Its: Chairman
Anaktuvuk Pass Village Council  
P.O. Box 21030  
Anaktuvuk Pass, Alaska 99721-1030  
Telephone: (907) 661-3612 • (907) 661-3619  
Fax: (907) 661-3613  
E-mail: cityofakp@gi.com • cityofakp2@gi.com

City of Anaktuvuk Pass  
CITY COUNCIL RESOLUTION  
Resolution No. 2019-01

A RESOLUTION OF ANAKTVUK PASS, ALASKA PRIORITIZING PROJECTS FOR THE CIP ORDINANCE 2010-10 SUBMITTED BY DEPARTMENTS OF THE NORTH SLOPE BOROUGH, THE North Slope BOROUGH SCHOOL DISTRICT AND THE CITY OF ANAKTVUK PASS

Whereas, on the 8th day of March 2019, the City of Anaktuvuk Pass met and discussed the community needs relating to projects proposed by the North Slope Borough the North Slope Borough School District and the Community of Anaktuvuk Pass; and

WHEREAS, the City Council was presented with prioritized list of projects from all three entities submitted for considerations in the funding of CIP Ordinance 2010-10; and

WHEREAS, The Anaktuvuk Pass City Council was asked by the NSB Planning & Community Services to prioritize all projects, including these submitted by NSB Departments, North Slope Borough School District, as well as the City of Anaktuvuk Pass, submitted for the Village of Anaktuvuk Pass as part of the overall planning and evaluation of the CIP process; and

WHEREAS, In the NSB Assembly Resolution 10-85, "A Resolution Approving & Adopting the Policies Established to Address to the Future Growth and Development of Capital Improvement Projects on the North Slope, "objectives under "Goal D: North Slope Borough will adhere to the City of Anaktuvuk Pass’ desires regarding industrial development infrastructures, project designs and priorities. Each village will determine its own priority on traditional versus modern needs, City of Anaktuvuk Pass and Exact CIP budget amounts will be developed. Local residents will have a major role in determining projects under these budget guidelines; and

NOW THEREFORE, BE IT RESOLVED, the City Council of Anaktuvuk Pass, Alaska, prioritized the projects listed below for consideration and further evaluation by the North Slope Borough Project Recommendation committee (PRC), the North Slope Borough Planning Commission, and the North Slope Boroughs Mayor's Office and the North Slope Borough Assembly and recommends their funding in the order presented,

1. Water/Sewer Hook Ups

2. Subdivision
3. Multipurpose building

4. Renovation/ Upgrading Residential Housing

5. Dust Control

PASSED and APPROVED by the duly constituted quorum of the Anaktuvuk Pass City Council this 8th day of March, 2019.

Charles Hugo, Vice Mayor

Attest:

Amos Ahgoak, Bookkeeper
CITY OF NUIQSUT, ALASKA
RESOLUTION NO. 2018-04

A RESOLUTION OF THE CITY COUNCIL OF NUIQSUT, ALASKA
APPROVING THE PRIORITIZATION OF CAPITAL IMPROVEMENT
PROJECTS FOR FISCAL YEAR 2019.

WHEREAS, Section 2.04.010 of the Nuiqsut Municipal Code of Ordinances specifies
that an annual Capital Improvements Program is to be submitted by the Mayor to the City
Council for consideration at the same time the operating budget is proposed for each
fiscal year; and

WHEREAS, the Nuiqsut City Council met and discussed a Nuiqsut community Capital
Improvement Program project prioritization in public forum at the May Regular City
Council meeting conducted on May 14, 2018; and

WHEREAS, enough time has been provided for community feedback on the
prioritization list drafted at the May 14, 2018 Regular City Council Meeting,

THEREFORE, BE IT RESOLOVED, the City Council in Nuiqsut, Alaska, has
prioritized community projects, and that the following represents, in hierarchical order,
the official Fiscal Year 2019 Capital Improvement Project Program:

1) Nuiqsut Airport Runway

2) City Building and City Property Upgrades and Renovation

3) Cultural Heritage Center

4) Natural Gas Hook-up on Nutaagvik and Ericklook Streets

5) Freshwater Lake Road Upgrade

6) Nuiqsut Access Roads Surface Upgrade

7) Road Access to Lois on Freshwater Lake Road

Resolution 2018-04
PASSED and APPROVED by the duly constituted quorum of the Nuiqsut City Council of this 11th day of June 2018.

Honorable Steven Eric Leavitt, Mayor

Attest:

Ms. Elaine Garner
Acting City Clerk, City of Nuiqsut
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<th>Type</th>
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**SECTION 06 EDUCATION FACILITIES**

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**SECTION 07 PUBLIC ROADS, STREETS, WATERCOURSE & FLOOD CONTROL**

**SECTION 08 PUBLIC HOUSING FUND**

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**SECTION 09 WATER FACILITIES**
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**SECTION 10 SEWAGE TREATMENT FACILITIES**

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**SECTION 17 COMMUNICATIONS**

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**SECTION 18 GENERAL CAPITAL PROJECTS**

3/12/2020
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**SECTION 22 Administration**

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**GO Bond**

|        |          |         |                   |          | Total Requested                           | $277,627,000      | $9,811,000     |
|        |          |         |                   |          | Total PRC Recommended                     |                  |                |

3/12/2020
PROJECT NAME: Residential Learning Support Center
LOCATION: Utqiagvik, Alaska

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-199
DATE SUBMITTED: 3/2/2020
REQUESTING ENTITY: NSBSD

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD
2. PROJECT NAME: Residential Learning Support Center
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The request here is for the funds needed to build a 50 bed residential facility which will be used to house students brought in from all making up the North Slope School District. As currently envisioned, The Residential Learning Support Center, will provide safe housing as well as individual nurturing / tutoring programs for students in residence while they attend classes and instruction not available at village school sites. These classes will satisfy individual student needs whether Career and Technical Education, (CTE) or college prep in nature. Many of these programs exist and are being delivered off site due to a lack of student housing.

CIP 2015-10 Contained $2,000,000 for land identification, acquisition and preliminary design costs.

4. PROJECT LOCATION:
Utqiagvik
PROJECT NAME: Residential Learning Support Center  
LOCATION: Utqiagvik, Alaska

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$4,500,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<td>Professional Services (Design, legal, other)</td>
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<td>Construction / Acquisition (anticipated costs)</td>
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TOTAL PROJECT COST (if different) $

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? [ ] No [x] Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

$1,500,000 - it will be needed to get the base bid and construction activities begun

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? [x] No [ ] Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.
B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.
C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This would be the final request for this project
PROJECT NAME: Residential Learning Support Center
LOCATION: Utqiagvik, Alaska

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☐ Yes
   If No, explain why it should be considered out of sequence:
   Mayor's Initiative

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       Expanded educational opportunities for village student and some Barrow students wanting to gain Career and Technical Education (CTE) in specialized areas.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       It will increase operational costs by an estimated approximation of $2 million per year for the NSBSD.
    C. Indicate if this is a reoccurring upgrade or repair.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☐ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (if yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes (if yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date: Burkhart Croft Architects Submitted 01/28/2015
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristine Hilderbrand, Executive Director of Operations NSBSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>-[Signature]-</td>
</tr>
<tr>
<td>Date:</td>
<td>3-2-2020</td>
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</tbody>
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<table>
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<tr>
<th>Department Director Name:</th>
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</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
1.0 Executive Summary

Project Summary

The North Slope Borough School District (NSBSD) is developing a new regional residential learning educational program. The students attending this program will come from throughout the North Slope Borough. This project will create the new Residential Learning Support Center (RLSC), a dormitory for the students who will be attending the new educational program.

Location

The site for this design is located in Barrow, Alaska, immediately to the east of the Barrow High School. The site selection process for the project has not been completed and no site has been formally chosen. One of the potential sites was selected only for this design, as a “demonstration site” for the purpose of including site development issues in the design and associated cost analysis.

This specific site was chosen for this exercise because it is located the closest to Barrow High School and, because of the lot’s configuration and presence of other existing buildings, it provides the greatest challenge in developing the site plan.

Program and Design Concept

The program for the RLSC has been developed to support 50 students for both short-term (2-week) and long-term (1 semester) stays by students.

Student Rooms: Student dormitory rooms are developed to maximize the flexibility in use and organization. Rooms have been grouped into suites on both the first and second floor. Each suite contains an entry area, two sleeping rooms, toilet room, shower room, and sink area. Each sleeping room is designed to house 2 to 4 students.

Furniture for the rooms will be FF&E; it is anticipated that, when fully-occupied, the rooms will contain two bunk beds with drawers in the base, 2-4 wardrobe units, and two desks.

Gender separation of sleeping rooms will be by suite. This will provide flexibility in the number of students of each gender which can attend the program. One suite on each floor is ADA accessible.

Staff Spaces: Program offices are located near the front door and adjacent to the Activity Room. The reception room has direct supervision over the entry vestibule.

An apartment for resident advisors is provided on each floor, adjacent to the student suites. The apartments are 1-bedroom, and include private bathrooms and kitchens.

Flex Rooms: Each floor has a “flex” bedroom and “flex” full bathroom. These spaces are immediately adjacent to the staff apartments. The bedrooms are designed to serve several purposes: (1) as rooms for students who, due to illness or disciplinary issues, need individual space, (2) as guest rooms for itinerant staff members or other guests, and (3) as second
1.0 Executive Summary

bedrooms to be used as part of the resident advisor apartments. The bathrooms will support
the flex bedrooms and also serve as an extra bathroom for students.

Common Spaces: The first floor has an Activity Room for students, designed to be a place to
gather and watch TV. Adjacent to the Activity Room is the Dining Room. With seating
capacity for 100, it is designed to handle and future expansion of the program.

Two kitchens will support the program. A commercial-grade warming kitchen will support
meal service for the students and staff. Hot and cold foods will be prepared off-site at
another fully-equipped NSB kitchen and transported to the RLSC for service. The loading
dock adjacent to the kitchen will be used for delivery of food and other supplied.

A residential kitchen is located off of the Dining Room. This kitchen will be used for life-
skills education and for the students to prepare snacks. Equipment will include residential
refrigerators, stove, and microwaves

Study areas are provided on each floor to give students quiet places to work. On the first
floor, there are two smaller enclosed study rooms between the Activity Room and the Dining
Room. A larger group study room is located adjacent to the offices, just off the Activity
Room, which allows the room to double as a conference room for administrative activities.
On the second floor, the study area is larger and more open and overlooks the Activity Room
below. This upstairs study area can be supervised from the offices below.

The dorm laundry is adjacent to the Activity and Dining Rooms and is designed for student
as well as staff use. The facility includes washers, dryers, sorting table, and ironing board.

Circulation: The pile-supported building is accessed by two exterior stairs and an accessible
ramp. Interior vertical circulation is provided by a centrally-located elevator and two stairs,
one at each end of the sleeping wing.

Support Spaces: Support spaces provided include: boiler room, fan room, storage room and
communication rooms, linen storage, and janitor closets.

An attached garage is sized to accommodate two 15-passenger vans. This portion of the
building will be lower than the rest, to allow a vehicle to drive in.

Incorporating Cultural Identity

To support NSBSD's roots in the values, history and language of the Inupiaq, themes and
references should be incorporated in the design of the RLSC. Opportunities include:

- Literal and abstract representation of traditional Inupiaq building, structure and art
  forms into interior and exterior treatments, material patterns, etc.

- Showcasing local cultural talent in carving, drums, sewing and basket making.

- Considering integration of history, through recognition of key leaders, past and
  present.
1.0 Executive Summary

Facility Design Criteria Manual

BCA has recently updated the NSBSD Facility Design Criteria Manual. This document is used as a standard planning guide for NSBSD projects, focusing primarily on building materials and system components. Work of this project will incorporate material treatments and design standards established in that manual.
PROJECT NAME: Districtwide System Upgrades & Replacement
LOCATION: Districtwide (areawide)

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-201
TYPE: UpFund
DATE SUBMITTED: 3/2/2020
AMOUNT REQUESTED: $8,295,000
REQUESTING ENTITY: NSBSD
AMOUNT RECOMMENDED: $6,295,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD
2. PROJECT NAME: Districtwide System Upgrades & Replacement
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Provide major renovations and systems upgrades needed for providing life health and safety of students, staff, and community on a Districtwide basis for all educational complex facilities. Renovations and systems upgrades include mechanical, plumbing, electrical, communication, technology, fire protection and security, and structural systems. Renovations include finishes, restrooms, kitchens, equipment, furnishings, paint systems and/or siding, roofs, playgrounds, gyms, doors/ hardware, fencing, lighting, windows, voc-ed, District owned housing, other facility components, and small additions under 2000 square feet (i.e. vestibules, storage, restrooms, and other spaces that by addition will support the improvement and security of the Ed Complex).

District on an annual basis will prioritize the greatest CIP needs throughout the District and work closely with the NSB CIP Department to implement the project on a cost effective and efficient manner. Projects will be justified by analyzing, life safety, protection of structure, code upgrades, operational cost savings, unhoused students educational programs and staff, functional upgrades, and other criteria as required to effect prioritization. The Project funds will be used for project analysis reports, designs, investigations, construction, labor and benefits, procurements, installations, CIP administration, and other direct costs associated with delivery of the projects.

Justification: The District has an inventory of District (NSB funded) owned facilities that have a replacement value of between $750 - $800M. The 1% per year appropriation will extend the useful life of the facilities, resolve emergency capital improvement needs, provide major repair and upgrades to life safety and support systems, improve security, improve operations, delay costly major whole facility renovations, improve CIP’s economic delivery of projects, resolve code violations, replace damaged or worn/broken equipment, fixtures, and furniture, and other related capital issues inclusive of light vehicle replacement.

4. PROJECT LOCATION:

DISTRICTWIDE All Villages and Utqiagvik
PROJECT NAME: Districtwide System Upgrades & Replacement  
LOCATION: Districtwide (areawide)

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$8,295,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Misc. Design Costs</td>
<td>Annual Allowance</td>
<td>$800,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Misc Projects</td>
<td>Annual Allowance</td>
<td>$5,600,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>NSB Project Management</td>
<td>Annual Allowance</td>
<td>$395,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
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<td></td>
<td>$</td>
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<tr>
<td>Other Costs (with description)</td>
<td>Equipment(Boilers, Fire, Generators)</td>
<td>Annual Allowance</td>
<td>$1,500,000</td>
</tr>
</tbody>
</table>

| TOTAL | $8,295,000 |
| TOTAL PROJECT COST (if different) | $ |

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ❌ No ✔ Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:  
Is this a phased project or a follow-up to an existing CIP project? ❌ No ✔ Yes  
If yes, indicate name and CIP project number: CIP 06-201  
A. If this is a new request, indicate below whether this project could be phased and over how many years.

No phasing as this project will be requested annually and new project numbers requested annually

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Cost Breakdown will be provided at a later date.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A, Full funding $8,295,000 Annually
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? □ No  ✓ Yes
If Yes, is it scheduled for replacement before 2025? □ No  ✓ Yes
If No, explain why it should be considered out of sequence:
Partial Appropriation request - The District has over $100M in deferred capital maintenance and procurements. Several projects have life safety components that should be immediately addressed.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Justification: The District has an inventory of District (NSB funded) owned facilities that have a replacement value of between $750 - $800M. The 1% per year appropriation will extend the useful life of the facilities, resolve emergency capital improvement needs, provide major repair and upgrades to life safety and support systems, improve security, improve operations, delay costly major whole facility renovations, improve CIP's economic delivery of projects, resolve code violations, replace damaged or worn/broken equipment, fixtures, and furniture, and other related capital issues inclusive of light vehicle replacement. Please review the NSBD FY18 CIP Six Year Plan for detailed projects.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will repair major systems and upgrade facilities which will reduce the overall maintenance and operations costs. This project will not expand facilities.

C. Indicate if this is a reoccurring upgrade or repair.
Yes, this project will be requested each fiscal year until the $1000M in deferred major maintenance and capital procurements is significantly reduced. We are projecting this project will be our baseline capital request for the next decade.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No  ✓ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No  ✓ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No  ✓ Yes (If yes, include written verification)
Explanation, if necessary:
However, this project will reduce risks for loss of life, injury, and loss of structure ($50M+)
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  ☒ Yes (If yes, include written verification)
Explain, if necessary:
Yes, please reference the RSA Engineering PAR Study.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  ☒ Yes (If yes, include written verification)
Explain, if necessary:
However, the project implementation will mitigate system failure risk which over the near and long term costs will be reduced

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No  ☒ Yes  If yes, indicate PAR name and date: RSA Engineering Mechanical and Electrical NSBSD Facility Study Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
RSA Engineering Mechanical and Electrical Survey Appendix

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title: Kristine Hilderbrand, Executive Director of Operations NSBSD
Signature: __________________________ Date: 3-2-2020

Department Director Name:

Department Director Signature: __________________________ Date: 3-2-2020

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Barrow High School Major Facility Replacement
LOCATION: Utqiagvik, Alaska

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-202        TYPE: UpFund
DATE SUBMITTED: 3/2/2020          AMOUNT REQUESTED: $32,367,000
REQUESTING ENTITY: NSBSD          AMOUNT RECOMMENDED: $32,367,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

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Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD
2. PROJECT NAME: Barrow High School Major Facility Replacement
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
village. Attach additional sheets if necessary.
PAR & Design Phase: New construction determined to be most prudent based on extensive structural,
mechanical, and electrical issues throughout the aging facility. Ongoing issues in the Vocation Education
wing make renovation a costly and inadvisable solution

4. PROJECT LOCATION:
Utqiagvik
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$8,276,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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</tr>
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<tbody>
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<td>Recoverable Pre-Project Costs</td>
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<td>(PAR, other studies or reports, etc.)</td>
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<td>(Design, legal, other)</td>
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<td>(anticipated costs)</td>
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<td>Contingency (if not included in</td>
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<td>Estimate</td>
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<td>$32,366,020</td>
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<td><strong>TOTAL PROJECT COST (if different)</strong></td>
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<td>$</td>
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</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☑ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR URFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☑ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project should be phased over several years

B. If this request is for an areawide project, provide an estimated cost breakdown for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Total for all remaining phases --$109M
PROJECT NAME: Barrow High School Major Facility Replacement
LOCATION: Utqiagvik, Alaska

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   ________________________________
   Barrow High School is on the top of the list for renovations.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       ________________________________
       The project will be critical to safe & efficient delivery of services

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       ________________________________
       The project will replace existing facility and will decrease operating and maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       ________________________________
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       ________________________________
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       ________________________________
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)
Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes  (If yes, include written verification)
Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☑ No ☒ Yes  If yes, indicate PAR name and date: HDL Contract # 2015-205 Submitted 10/5/2017
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristine Hilderbrand, Executive Director of Operations NSBSD</th>
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<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
</tr>
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<td>3/2/2020</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>3-2-2020</td>
</tr>
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</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
B. EXECUTIVE SUMMARY

The Barrow High School has served as an academic, civic and cultural hub of the community for nearly 40 years and now it's time to update and repair the structure and many of the building's critical systems. The goal of this project is to develop an approach that will allow the School to continue to serve the community until 2050 and beyond.

The large school is in need of far reaching upgrade. Facility wide the heating, fire suppression, domestic hot water, fire alarm, electrical panels and distribution system are failing or no longer serviceable. Additionally, the foundation has failed in the Vocational Education building and is showing signs of failure in the Academic building addition. The foundation failure is due to ground surface thawing which has caused significant settlement that has translated into distortions, deflections and gypsum board cracking in multiple areas in the building. In some areas differential settlement is over 17 inches and is seriously deforming the building structure. Lastly, the swimming pool ventilation system is not working which has caused dangerous mold growth and damage to the structure. Repair will require extensive remediation of the toxic mold, replacement of finishes and in some cases portions of the structure. No students or school district employees are allowed in the pool area of the building.

The scope of this work and the sequencing of its execution has been carefully studied and is described in Chapter E of this report. Generally, the approach is to design the entire project addressing buildings that are failing first. Then facility infrastructure to support the school program is to be repaired or replaced. Lastly, the program buildings are to be upgraded. Consideration of construction time requirements has been applied to limit disruption to school schedules. Each year's work is planned to correspond with a consistent funding stream to help the District budget the project over the next nine years.

The proposed project phasing is outlined as follows:

<table>
<thead>
<tr>
<th>PHASE</th>
<th>Description</th>
<th>PHASE 4</th>
<th>Repair Hub building</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEARS</td>
<td>Design entire project, construct new Voc Ed building, stabilize Academic building addition foundation.</td>
<td>YEARS</td>
<td>2023 - 2024</td>
</tr>
<tr>
<td>COST</td>
<td>$29,619,493</td>
<td>COST</td>
<td>$13,759,404</td>
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<tr>
<td>PHASE 2</td>
<td>Replace utilities to support the entire campus.</td>
<td>PHASE 5</td>
<td>Repair Academic Building</td>
</tr>
<tr>
<td>YEARS</td>
<td>2020</td>
<td>YEARS</td>
<td>2025 - 2026</td>
</tr>
<tr>
<td>COST</td>
<td>$5,312,266</td>
<td>COST</td>
<td>$11,650,751</td>
</tr>
<tr>
<td>PHASE 3</td>
<td>RemEDIATE mold, repair pool and remainder of the Sports building.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YEARS</td>
<td>2021 - 2022</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COST</td>
<td>$17,269,875</td>
<td></td>
<td></td>
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</tbody>
</table>

We expect the total building construction cost to reach $77,611,789 when it is completed in 2026.
PROJECT NAME: Alak School Major Facility Renovations
LOCATION: Wainwright, Alaska

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-203
DATE SUBMITTED: 3/2/2020
REQUESTING ENTITY: NSBSD

TYPE: UpFund
AMOUNT REQUESTED: $8,276,000
AMOUNT RECOMMENDED: $8276000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD
2. PROJECT NAME: Alak School Major Facility Renovations
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   Phase 1 - Necessary renovations throughout the facility including but not limited to mechanical, electrical, finishes, doors, windows, grounds, exterior and interior lighting, new freezer unit, and other issues identified during the design process. Extend bay in Bus Barn and other major repairs to that facility.

   Supporting information in PAR Jan 2010 CIP18-041 and RSA Engineering mechanical and electrical systems survey.

4. PROJECT LOCATION:
   Alak School, Wainwright
**PROJECT NAME:** Alak School Major Facility Renovations  
**LOCATION:** Wainwright, Alaska

5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

8,276,000

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
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<td><strong>TOTAL</strong></td>
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<td>$8,276,000</td>
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</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** ☑ No ❑ Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ❑ No ☑ Yes  
If yes, indicate name and CIP project number: 06-203

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an area-wide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Total for all remaining phases ~$28M
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
If Yes, is it scheduled for replacement before 2025? □ No □ Yes
If No, explain why it should be considered out of sequence:
Renovation and Upgrade design to be under contract soon.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
The current Alak school has not been renovated since it was built in 1988. The RSA Engineering study resulted in over 30 M/E Systems project needs. The Village needs a larger school bus but the garage is not deep enough to facilitate a longer bus; an bay extension is needed.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
The overall project will provide for energy savings. The only expansion is a small lengthening of the current bus bay. The project is budget neutral.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (if yes, include written verification)
Explaination, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (if yes, include written verification)
Explaination, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (if yes, include written verification)
Explaination, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:


E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  

☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:


12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  

☒ No ☐ Yes  If yes, indicate PAR name and date: PAR Jan 2010; RSA M/E Study Findings

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.


14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.


15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristine Hilderbrand, Executive Director of Operations NSBSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>☑                                            Date: 3/2/2020</td>
</tr>
</tbody>
</table>

Department Director Name:

Department Director Signature: ☑ Date: 3/2/2020

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**Planning Department Use Only**

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
2.0 Existing Facility

2.1 Overview

2.1.1 Atqasuk

Atqasuk is located inland from the Arctic Ocean on the Meade River, about 60 miles southwest of Barrow. Atqasuk has long been established as a hunting and fishing ground. Abandoned sod houses, an old cellar and gravesite near the village provide evidence of an early settlement here.

During World War II, coal was mined in the community and freighted to Barrow. During the next 10 years, the village existed under the name of Meade River. Although the population dwindled in the 1960s, former residents from Barrow moved to the community in the 1970s and re-established the village under the name of Atqasuk. The village was incorporated as a second-class city in 1982.

Atqasuk has a population of 203 (2003) residents and a work force of 72 as of 2003. Inupiat Eskimos comprise 91 percent of the population. Atqasuk’s economy is largely based on subsistence caribou hunting and fishing. Fish in the Meade River include grayling, burbot, salmon and whitefish. Local game includes, ptarmigan, ducks and geese. Residents also travel to the coast to participate in whaling and hunting other marine mammals.

The Meade River School offers public education from pre-school to grade 12 and adult basic education. The student population is approximately 85 students. Communications include phone, mail, public radio and cable television. (Ref: www.north-slope.org/villages/atqasuk)

2.1.2 Wainwright

Wainwright sits on a wave-eroded coastal bluff of a narrow peninsula which separates Wainwright Inlet from the Chukchi Sea. Wainwright is about 70 miles southwest of Barrow.

The inlet was named in 1826 by Captain F.W. Beechey for his officer, Lt. John Wainwright. The present village was established in 1904 when the Alaska Native Service built a school there. The community was incorporated as a second-class city in 1962. Wainwright is the third largest village in the North Slope Borough, and in 2003 had a population of 556 and work force of 221. Ninety-four percent of the residents are Inupiat Eskimo.

Wainwright has a larger private sector than most villages: 38 percent of the work force is employed by private businesses, primarily the village and regional corporations. The Borough employs 30 percent of the work force and the School District provides jobs for another 25 percent.
Wainwright's subsistence hunting revolves primarily around whales and caribou. Local arts and crafts include carved ivory figurines and jewelry, baleen boats, whale bone carvings, clocks, knitted caps and gloves.

Wainwright's children attend Alak School from pre-school to grade 12. The community also offers adult basic education and vocational education. The school has a swimming pool and gymnasium which are also used by the public. (Ref.: www.north-slope/villages/wainwright)

2.2 Existing Facility Condition

2.2.1 Atqasuk Meade River School

The Atqasuk Meade River School is one of two facilities examined in this Project Analysis Report. The Wainwright Alak School is discussed in following paragraphs. The school houses approximately 85 students and staff for grades k-12 in a single 47,100 SF facility. The condition survey conducted by the CH2M HILL team addressed this facility.

The facility maintenance staff identified the following items for consideration during the site visit:

1. Classroom (Kimberly’s room) and boiler room leaks
2. East side room air infiltration
3. Utilidor air infiltration
4. Replacement of selected exterior doors
5. Add west side loading dock
6. Bathroom remodel
7. Gym floor coating
8. Consider kitchen remodel
9. New floor finishes in boiler room and shop areas
10. Paint building exterior
11. Energy efficient lighting in gymnasium
12. Paint gymnasium
13. Dehumidifier for pool area
14. Replace oil fired hot water with more energy efficient replacement
15. Add door into communication room from wood shop area
16. Add air conditioning to computer server area
17. Remodel principal’s office

Given the environment and the heavy use by staff, students and the general public the facility have performed fairly well. This indicates that the facilities maintenance staff is doing a good job. The principle problems in the facility relate to normal wear and tear and weather related problems that result in cold air and moisture infiltration and condensation. An infrared thermographic survey of the building exterior identified potential areas of cold air infiltration.

Two items have been noted that will require detailed future engineering analysis. These are the substantial amount of air infiltration into classrooms on the north side of the building and deformation of the exterior wall in this area. The two problems are not related.

In addition to the facility staff items above upgrade and renovation items including architectural, mechanical, and electrical are addressed in Section 3, 5, and 6 and costs associated with these items are summarized in Section 7.

The larger cost items of recommended renovation or upgrade described in the PAR include:

1. North and East wall repairs
2. Arctic entry construction  
3. North wall repairs  
4. Bathroom remodel  
5. Install cooling systems  
6. Gymnasium flooring  
7. Painting of the facility  
8. Access Control

2.2.2 Wainwright Alak School

The Wainwright Alak School is one of two facilities examined in this Project Analysis Report. The Atqasuk Meade River School was discussed in previous paragraphs. The school houses approximately 160 students and staff for grades k-12 in a single 57,936 SF facility. The condition survey conducted by the CH2M HILL team addressed this facility.

The facility maintenance staff identified the following items for consideration during the site visit:

1. Utilidor ceiling in connection from main building to bus barn is leaking  
2. Leakage in library and counselor room  
3. Deformation cracks noticeable around window at room 194  
4. Replace multipurpose room outside door  
5. Address pipe freezing, leakage, and floor damage on north side of the high school  
6. Repair/replace building skirting  
7. Replace damaged windows

Given the environment and the heavy use by staff, students and the general public the facility have performed fairly well. This indicates that the facilities maintenance staff is doing a good job. The principle problems in the facility relate to normal wear and tear and weather related problems that result in cold air and moisture infiltration and condensation. An infrared thermographic survey of the building exterior identified potential areas of cold air infiltration.

Two items have been noted that will require detailed future engineering analysis. These are the water damage in the high School (see Appendix D, PIC-AIN-12, 13) and the interior window damage in the wall of Room 194 (see Appendix D, PIC-AIN-007)

In addition to the facility staff items above upgrade and renovation items including architectural, mechanical, and electrical are addressed in Section 3, 5, and 6 and costs associated with these items are summarized in Section 7.

The larger cost items of recommended renovation or upgrade described in the PAR include:

1. Building piling foundation repair  
2. Glazing replacement  
3. Replace decking  
4. Replace skirting  
5. Access Control  
6. Horizontal LAN distribution  
7. Pressurize electrical room  
8. Painting  
9. Wall carpeting  
10. Flooring repair
PROJECT NAME: Ilisagvik College New Facility Design
LOCATION: Utqiagvik/Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-204
DATE SUBMITTED: 2/20/2020
REQUESTING ENTITY: Ilisagvik College

NSB PLANNING DEPARTMENT USE ONLY
TYPE: UpFund
AMOUNT REQUESTED: $8,476,000 with $4.5M through LOI
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Ilisagvik College

2. PROJECT NAME: Ilisagvik College New Facility Design

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Ilisagvik College is requesting funds to advance and complete the design of the new College campus. As noted in last year’s request, a Project Analysis Report (PAR) completed by UMIAQ in 2016 identified potential campus sites and provided a preliminary concept design/cost estimate. The College selected a 10-acre parcel of land owned by UIC near Samuel Simmonds Memorial Hospital, which will allow the College to consolidate programs and services into one centrally located campus, thus improving student access, and better serving the residents of the North Slope.

Since 2017, Ilisagvik has taken concrete steps to advance the new campus facility. The College has followed the NICC Development Plan created in 2017/2018. Additionally, after a competitive selection process, Ilisagvik selected the architectural team of UMIAQ/Cibinel Architecture Ltd. to design the new campus. Working together with the architects, a detailed assessment of the current facilities and College Program resulted in consolidating the entire campus into one building and reduced the overall gross square feet (gsf) of the building from 150,200 gsf to 111,036 gsf. This 26% decrease in gsf has the potential to reduce the total cost of the project while the College works with the NSB CIPM Department on exploring other possible cost saving measures. Throughout 2018, Ilisagvik College traveled to the North Slope villages to hear firsthand how the College can better serve their needs. Through this effort, the College garnered support for the new campus in the form of resolutions and letters from many of the Villages and Native corporations (please see attachments for copies of those).

The project timeline remains aggressive and the intention of opening the new campus as soon as possible is paramount. Ilisagvik has created an organizational support structure including executive, cultural, capital, and communications committees. UIC has reserved the site for the new College, and Ilisagvik is actively working with UIC on the lease agreement. The next step is to acquire additional funding to complete the campus design, execute a design contract, and continue the design development of the new facility and associated cost estimates.

4. PROJECT LOCATION:
Utqiagvik/Barrow
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Total Request for New Campus Design: $8,475,727 (balance of PAR estimate Design Only amount)

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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TOTAL PROJECT COST (if different) $-

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? □ No □ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

To maintain the currently anticipated schedule, $4.5 million would be needed by Nov. 2020. The majority of this initial required funding here, Ilisagvik and the NSB can make demonstrable strides towards completing the design. The benefit to allocating funds to this project now is that further cost escalation (3.5%/year) can be mitigated, resulting in a more economical project overall.

8. PROJECT PHASING OR UFPUND:

Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes

If yes, indicate name and CIP project number.

A. If this is a new request, indicate below whether this project could be phased and over how many years.


B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.


C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

We anticipate requesting $75-$90 Million from the North Slope Borough over the course of the project; the amount is dependent on our fundraising efforts using outside sources. Ilisagvik College has a dedicated Capital Campaign Committee that will actively pursue other avenues of funding.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence.
   Ilisagvik College currently operates out of buildings that were built in the 1940s, 1950s, 1960s, which were not designed to be an educational facility. In addition, waiting additional years increases the cost of construction of the new facility by about 3.5% per year. It is important to begin this process now.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
    Ilisagvik College is operating out of an aged and deteriorating facility that was not designed to be an educational institution, and therefore not ideal for educational purposes. The current facilities are plagued by health, safety and environmental concerns. NARL is a disposal area that contains PCBs and Asbestos. Also, NARL does not contain adequate water storage for fighting a major fire. Moreover, the increase in severity of seasonal storms has caused Stevenson, the only access road to NARL, to become annually impassable. In late 2018 and early 2019, the College went without access to water for 34 days because of freeze-up issues, a problem that most likely would not have occurred were the campus located within town. The ADEC has identified eight sites on or near the old Ilisagvik campus that are considered active and have ongoing cleanup efforts.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
    The completed new Ilisagvik College campus will expand college services to all North Slope Borough villages by allowing for greater capacity, connectivity, and growth. The College does not anticipate that the facility will entail increased operating and maintenance costs, which should decline. The completed new Ilisagvik College campus will expand college services to all North Slope Borough villages by allowing for greater capacity, connectivity, and growth. The College does not anticipate that the facility will entail increased operating and maintenance costs, which should decline. An analytical model comparing FY19’s budget (at NARL) and the projected post-occupancy budget (in the new facility) shows an overall cost reduction estimate of more than 10%. This cost reduction is primarily from the elimination of leased buildings and lower maintenance costs at the new facility.

    C. Indicate if this is a reoccurring upgrade or repair.
    This is not a reoccurring upgrade; the project is dedicated to building a new campus that will help mitigate the need for reoccurring upgrades or repairs.

    D. Detail outside funds being leveraged, if applicable.
    A Capital Campaign Committee has been formed to identify and secure funding. These funds include: 1. Federal Grants: Department of Education, Department of Housing and Urban Development, other Federal Tribal College dollars; 2. State Grants: Rasmuson Foundation and other foundations; 3. Oil & Gas Partner Support; 4. Local Support: ASRC and other entities.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
    Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
    Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
    Please see the attached Existing Conditions Analysis.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:
The cost of maintenance and operations that the NSB supports as a part of the general operating budget will decrease with the new facility. In FY 18 the NSB through lease with UIC paid $2.5 million for the lease of the Ilisagvik College Main Campus. The total paid to UIC is $36.9 million. All of those funds moving forward should be invested in a facility that has longevity, rather than spending $2.5 million each year on a facility we do not own and that continues to lose value each year due to age and obsolescence.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No  □ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
The new student-inspired, community-driven Ilisagvik College Campus will be grounded in Inupiat values and will be adaptable to the needs of an evolving student body to foster educational excellence at every opportunity. The new College Campus will model best practices in Indigenous education and train leaders to drive global change, and meet North Slope workforce needs.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Dr. Pearl Brower, President</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
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<tr>
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<td>2/20/2020</td>
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<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Dr. Pearl Brower</th>
</tr>
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<tbody>
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<td>Date: 2/20/2020</td>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
2020 CIP Project Request Form

Ilisaġvik College Attachments

Attachments Contents
(Numerical Headings are Linked)

1. New Campus Design Conceptual Site Layout
2. New Campus Design Floor Plans
3. Site Selection with Letter of Intent
4. Existing Conditions Analysis
5. Cost Estimates
6. Letters of Support and Resolutions
   a. Native Village of Atqasuk Resolution
   b. City of Atqasuk Resolution
   c. Tikigaq Corporation Letter of Support
   d. Tikigaq Corporation Resolution
   e. City of Kaktovik Resolution
   f. Village of Wainwright Letter of Support
   g. Native Village of Barrow Resolution
   h. City of Utqiaġvik Resolution
   i. ICAS Letter of Support
   j. ICAS Resolution
   k. ConocoPhillips Letter of Support
   l. Alaska Native Tribal Health Consortium Letter of Support
   m. Alaska Pacific University Letter of Support
   n. Representative John Lincoln Letter of Support
   o. Senator Donald C. Olson Letter of Support
   p. New Ilisaġvik College Campus Petition of Support – Signatures (Origin: Commencement 2018)
   q. Inuit Circumpolar Council Letter of Support
   r. Native Village of Point Lay Resolution
   s. TNHA Resolution
   t. Arctic Slope Native Association Letter of Support
   u. NSB Human Resources Letter of Support
   v. NSB School District Letter of Support
   w. NSB Fire Department Letter of Support
   x. New Ilisaġvik College Campus Petition of Support – Signatures (Origin: Alaska Federation of Natives Conference 2018)
   y. Ilisaġvik College Board of Trustees Letter of Support
June 18, 2015

Pearl Brower
President Illisagvik College
100 Stevenson St.
P.O. Box 749
Barrow, AK 99723

RE: Letter of Intent
Secure Lands for Illisagvik College Future Campus

Dear Pearl Brower,

This letter will constitute as Ukpeagvik Inupiat Corporation Lands Department’s intent to reserve ten acres of UIC land south of the new hospital to be utilized for the future Illisagvik campus. UIC Lands does support this prospect and does intend to seek UIC Board of Director’s approval. If approved, UIC Real Estate will negotiate the terms of the land usage.

[Map image: This image is a general depiction of the intended reservation of lands.]

If you should have any questions, please call our office at (907) 852-4460.

Sincerely,

[Signature]
LARS NELSON | PRESIDENT UIC LANDS
UKPEAGVIK İNUPIAT CORPORATION
EXISTING CONDITIONS ANALYSIS:

Ilisaġvik College’s main campus is located approximately three miles east of Barrow’s population center on the shore of the Chukchi Sea. Access to the College is by way of Stevenson Street, a two-lane gravel road located along the coastline. On average, the campus is closed down 3-4 times a year due to road closures caused by weather conditions.

Parking for staff, students and visitors is available directly adjacent to campus buildings. Public transportation to the campus is provided by the NSB Public Works van, local cab service and College-operated van service for students, staff and faculty.

EXISTING BUILDINGS SPACE UTILIZATION STUDY

Ilisaġvik College presently occupies a total of thirteen (13) buildings of varying size, age, and physical condition. A majority of the facilities reside on the main campus at buildings originally constructed in the 1940s for use by the Naval Arctic Research Laboratory (NARL.) Additionally, the College utilizes three buildings located within Barrow’s population center that provide classroom space for adult and childhood educational opportunities. The types of facility range from Quonset huts, which house vocational educational classes, such as carpentry, electrical, heavy equipment operations, to a modern library facility, which is frequented by the entire community. All facilities have the properly marked entry and exits with fire alarms and extinguishers. Alarms are inspected annually. Power receptacles located at each building are available for plugging in vehicles in winter months.

The College partners with the North Slope Borough in a long-term property lease arrangement with the Ukpeaġvik Inupiat Corporation (UIC), one of the Native corporations created under the Alaska Land Claims Settlement Act. The Borough leases a number of buildings, collectively known as the NARL Campus Site of the College for $2.4 million annually through a master lease agreement. As part of the agreement, the College assumes responsibility for routine maintenance, servicing, and repairs to a maximum of $6,000/incident or task. Additional costs above this amount default to the landlord, UIC.

Sharing of facilities and responsibility is in keeping with the Iñupiat values of sharing and cooperation which has resulted in successful partnerships between the regional government, the
school district, the regional corporation, the local corporation, the tribal housing authority and Ilisagvik College. The availability of classroom space, offices and family housing to Ilisagvik students through such collaboration is one example of the strong support for higher education by the community.

The College utilizes a total of 83,000 GSF of space to provide for student, faculty and administrative staff. Ilisagvik College’s current programmed spaces can be categorized into the following major components:

- Administrative/Student Services
- Academic
- Vocational Education and Industrial Safety
- Student Housing
- Staff Housing
- Kitchen/Cafeteria
- Library
- Recreation
- Warehouse/Storage

Administrative/Student Services program component encompasses a variety of student and staff related functions including registration, financial services, business services, human resources, offices, information technology, maintenance and operations, and instructional administration spaces. This component currently utilizes approximately 16,180 GSF of which 11,000 GSF is located in Main Campus Building #360, which was constructed in 1968.

- Main Campus Facility #360 (NARL): This is a wood frame building elevated on pilings with a full sprinkler/alarm system. This facility houses all administrative and student service functions, provides a residence hall for students and staff/faculty, and also includes offices for information technology, maintenance, and workforce administration. Additionally, it provides space for up to 75 people for large classes, community events and seminars. A computer lab and a classroom/video conference room that is used for meetings and short term training is located in the men’s dorm wing. An access ramp is available and is located in the center of both wings of the building. The building is part of the UIC complex and is rented to Ilisagvik as part of a five-year master lease.

Academic Spaces include general classrooms, computer labs, and science labs located in several buildings on the main campus and in-town locations.

- Hut #58, located on the main campus, is a two-story Quonset hut built in 1965. It houses Business Management, Office Administration, and Information Technology programs. The first floor contains the information technology resource center and two classroom/computer labs. The second floor includes a computer lab and a distance-delivery classroom. The 6,000 GSF building has approximately 2,400 GSF of classroom/lab space. The building is part of the UIC complex and is rented to Ilisagvik as part of a five-year master lease.
**Hut #60**, located on the main campus, is a two-story Quonset hut built in 1948. The **5,900 GSF building has approximately 1,900 GSF of classroom/lab space**. There are two science laboratories and general classroom space on the first floor. The second floor houses the Academic Division department, the Learning Resource Center for Students, and faculty offices. The building is part of the UIC complex and is rented to Iḷisaġvik as part of a five-year master lease.

**The Browerville Center/Inupiat Studies building** is located in town near the Tuzzy Consortium Library and the Alaska Commercial Store. The **2,200 GSF two-story building** is dedicated solely to academic purposes and Inupiat Studies. It contains four classrooms, two faculty offices, and a tutoring lab with eight computer work stations. The building was constructed in 1975 and is owned by the North Slope Borough who has leased it to the College at no cost.

**Vocational Education/Industrial Safety** program-shop spaces typically consist of large open work areas able to accommodate equipment for heavy truck/equipment operation, construction trades, and industrial mechanics. General classrooms are located adjacent to the shops as are faculty offices. The Voc-Ed program is housed on the main NARL campus. The buildings are part of the UIC complex and are rented to Iḷisaġvik as part of a five-year master lease. The compound consists of **22,030 GSF** of space located in 4 buildings:

- **Building #5** was built in 1975. This is a remodeled two-story, wood frame building with an attached addition; it houses the industrial safety program lab; and a classroom for industrial safety classes. It consists of **5,607 GSF with 4,407 GSF being used as classroom/lab space and 640 GSF as faculty office space**. The building is at ground level and no access ramp is required.
- **Hut #61** was built in 1948. This is a one-story, remodeled Quonset hut with shop/lab space with a permanently attached ATCO building providing an additional classroom space. The heavy truck and equipment program uses this building. It consists of **5,314 GSF of which 3,500 GSF is used as classroom/lab space. 420 GSF is faculty office space**. The building is at ground level and no access ramp is required.
- **Hut #63** was built in 1958. This is a one-story Quonset hut that is used by the Construction Trades and Electrical program for classroom and lab space. It consists of **5,329 GSF with 4,160 GSF used as classroom/lab space and 180 GSF used as faculty office space**. The building is at ground level and no access ramp is required.
- **Hut #65** was built in 1958. This is a one-story, remodeled Quonset hut providing classroom and lab space for the Construction Trades, Plumbing, Welding, and Carpentry programs. Recent upgrades have been made to the back part of the Hut creating a fleet maintenance shop for all campus vehicles. It consists of **5,360 GSF with 2,040 used as classroom/lab space and 180 GSF used as faculty office space**.

**Student Housing** is located in Main Campus Building #360 built in 1968 and consists of dorm-style rooms with common restrooms, laundry facilities, study areas, and gathering spaces. This program component currently utilizes approximately **17,550 GSF** of the **32,000 GSF building**.
**Staff Housing** consists of one, single-family house built in 1975. This 3-bedroom house is located at 5644 C Street and is in close proximity to the Browerville Center, the Tuzzy Library, several grocery stores, and a playground. It is the only building owned by Ilisaġvik College and is **approximately 1,250 square feet**. Due to a housing shortage in Barrow, the College is also currently leasing 12 housing units from local owners and subletting these units to college staff and faculty as needed.

**Kitchen/Cafeteria** is also located in Building 360. Daily meals are served for students, staff and visitors. The programmed space is divided into food preparation, cooking, cafeteria-style serving area and dining area. **This component utilizes 3,450 GSF of the 32,000 GSF building.**

**Tuzzy Consortium Library** is an **11,500 square foot** facility shared with the Iñupiat Heritage Center. It has a main reading room and book stacks. Seating capacity is 65 people including 11 workstations with connections to the internet. There is an expanded children’s reading room and five offices that provide workspace as well as an expanded work area for catalogers and administrative assistants.

An **Student Recreation Center/Gym** consisting of half-court basketball area, weight room, training room, restroom, and office area is located in **Building #352**, which was built in 1994. It is located east of the main campus building. **The facility has a total of 6,283 GSF.** The building is part of the UIC complex and is rented to Ilisaġvik as part of a five-year master lease.

A **Warehouse/Storage** building is also located east of the main campus building. **Building #255** is a two-story, wood frame building which functions as the warehouse for support services providing space for shipping and receiving, a vehicle dock, and food service storage. **The facility has a total of approximately 5,970 GSF.** An access ramp is available for vehicles. The building is part of the UIC complex and is rented to Ilisaġvik as part of a five-year master lease.
Ilūsaġvik College is housed primarily on the site known as NARL—Naval Arctic Research Laboratory. The US Navy started the site in order to explore the Naval Petroleum Reserve No. 4—known as Pet 4. When the Reserve was closed in 1953, the US Air Force assumed the operation of the facilities. Several 20’x40’ Quonset huts were built to house various activities; two of the earliest buildings are currently being used as classroom space: Hut # 60 and Hut # 61. The military maintained control of the site until 1980 when site control was given to Ukpeaġvik Iñupiat Corporation who in turned leased the property to the North Slope Borough. From 1980-1995, the North Slope Borough used the facility for a variety of purposes including many iterations of an institution of postsecondary education. It had several stages including:

- Iñupiat University of the Arctic
- University of Alaska Extension Center
- North Slope Higher Education Center
- Arctic Sivunmun Ilūsaģvik College
- Mayor’s Workforce Development Center

In 1995, Ilūsaģvik College achieved accreditation and became a standalone entity. In 2005, it became a federally recognized Tribal College.

The facilities were built to house military personnel and scientists and their laboratories not to house an educational institution. The cost of building in the remote arctic creates the necessity to retrofit existing structures to accommodate present needs. As a result, Ilūsaģvik College’s campus is a hodgepodge of buildings that have been renovated to address the needs of its student body. While the refurbishing of the structures has created classroom, lab and office space for faculty, staff and students, it doesn’t meet the needs of a growing institution.

- **No Site Control:** Ilūsaģvik does not have site control for any of the buildings on campus. The Ukpeaġvik Iñupiat Corporation (UIC) owns ten of the thirteen buildings used by the College. The Browerville Center and Tuzzy Library are owned by the North Slope Borough (NSB). The space for U qauchim Uglua belongs to the NSB School District. The NSB leases the NARL facilities from UIC for Ilūsaģvik’s use. Currently, the College is on the first year of a five-year lease. Any improvements or renovations are limited since Ilūsaģvik would be utilizing funds to enhance structures they do not control. Grant funds for capital improvements are not available to Ilūsaģvik because the College does not have site control.

- **Health and Safety Concerns:** The NARL campus is located three miles from the city center. Barrow and Browerville have several fire hydrants located throughout town. None are located in NARL. A holding tank is kept filled with water for use by fire trucks in case of a fire. In addition to lacking fire hydrants, the NARL campus is not on the Utilidor system. The Barrow Utilidor System a unique 3.2 mile wood tunnel that runs below Barrow like an underground road system. It transports running water through the permafrost to homes, schools and businesses. The following services are provided or networked within the Utilidor system: Potable water, sewage collection, telephone service lines, TV cable service lines, fiber optic service for North Slope Borough communications network and electric service lines. Since the NARL campus isn’t serviced by the Utilidor, potable water has to be delivered via tanker trucks and sewage is
pumped out daily by vacuum trucks. Not only are the costs for these services extremely high, if the NARL campus is inaccessible due to weather or a road outage, the campus is cut off from basic sanitation and health needs.

- **Too Many Small Buildings:** Ilisaġvik College’s campus consists of thirteen buildings spread over a large area. None of the buildings are connected. In an arctic environment where it is below freezing for an average of 245 days a year, connected pathways and limited outside exposure are beneficial. The small buildings and cramped classroom space lead to a reduced sense of community. Studies show that as much as half of all learning occurs informally, outside the classroom. Lack of common spaces and connectivity mean that these buildings fail to foster the social and collegial interaction typically desired in institutions of higher learning. Programs that could benefit from co-location with other programs are not possible in the current configuration. In addition to classroom space being separated, faculty is separated from spaces where they teach and interact with students.

- **Maintenance Concerns:** Spreading the square footage amongst numerous small buildings also increases number of roofs, exterior walls, and building systems per square foot. Aging structures in a harsh environment create the need for continual and expensive repairs. During the annual review of Ilisaġvik facilities, insurance-company risk assessments continually state that the roofline over entry ways to Building 360 need to be adjusted due to the risk of ice and snow falling onto passersby. Ilisaġvik does not own the buildings, but is being held responsible for building-related deficiencies.

**Flood risks:** Barrow experiences coastline erosion from the Chukchi Sea. Erosion averages just above 1 foot per year, but a single storm can cause more extensive losses up to 35 feet inland. Erosion has been aggravated by harvesting of beach materials, and by coastal ice forming later in recent years than it had in the past—historically, coastal ice has acted as natural erosion protection, and the community is now more susceptible to erosion from storms for a longer period. Stevenson Street, the only access to the NARL campus, and archeological sites are the areas of greatest erosion concern. Coastal flooding is also a significant issue.
The worst flood to date occurred in 1963. Seawater is reported to have moved 400 feet inland. Fifteen homes were destroyed, and 17 more were damaged. Approximately 70% of the airstrip at NARL was destroyed. The foundations of the quonset huts were eroded and damaged with some buildings being washed off their slabs.

In August 2000, the barge that was used for dredging for gravel was sunk during a devastating storm. In October 2002, another storm caused widespread damage. Due to the lack of sea ice, waves peaked at 14 feet. Heavy equipment had to be used to build up the existing sea walls and protect the fresh water lagoon. Stevenson Street, the only access to the Iḷisaġvik’s campus, was impassable for several days.

- **Insufficient Instructional and Support Space:** The original buildings were constructed and designed as laboratories and office space, not as classroom areas. Classrooms have been carved out of existing space in structures. Classroom laboratory space has been created by razing walls and combining two spaces, which eliminates a classroom space. Faculty office space is cramped and dark. Many do not have windows. The administration offices, cafeteria and bookstore are located away from the teaching areas. Every square foot of each building has been maximized. There is no room for expansion. The current campus does not support growth.

- **Accessibility Challenges:** With the exception of the administration building, known as 360, and Tuzzy Library, every structure on campus has two-stories. None of the buildings have elevators. Building 360 is handicapped accessible, but none of the Huts where classes are held are.
**Other Hazards:** Human-caused environmental hazards include potentially contaminated sites. The Alaska Department of Environmental Conservation (ADEC) has identified sixteen sites around Barrow in their contaminated sites database. Of those sixteen sites, eight are on or near the Iḷisaġvik College campus. Of those eight, five are considered active and have ongoing efforts for cleanup. According to ADEC, a major issue for the NARL sites is the continued amount of contaminants exceeding the numbers that were identified for cleanup as well as the migration of contamination to surface water shoreline compliance units. (See chart below.)
<table>
<thead>
<tr>
<th>Site Name</th>
<th>City</th>
<th>State</th>
<th>Status</th>
<th>Spill Date</th>
<th>Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>NARL - Powerhouse Fuel Spill</td>
<td>Barrow</td>
<td>AK</td>
<td>Open</td>
<td>10/17/1988</td>
<td>Soil contaminated with diesel and TPH. Active zone water has diesel, TPH, and 1030 ug/l BTEX. Reportedly a 10,000 gallon JP-5 fuel spill occurred at the site in 1958</td>
</tr>
<tr>
<td>NARL - Airstrip Fuel Spill</td>
<td>Barrow</td>
<td>AK</td>
<td>Open</td>
<td>10/17/1988</td>
<td>Several fuel spills of mogas and JP-5 occurred from various locations at this site, primarily confined to the hangar area. The site is assigned a HIGH site rank.</td>
</tr>
<tr>
<td>NARL - Bulk Fuel Tank Farm</td>
<td>Barrow</td>
<td>AK</td>
<td>Open</td>
<td>10/17/1988</td>
<td>Site of former bulk fuel tank farm which piped fuel to NARL facility. Confirmed POL contamination in soil and active zone water. The site is assigned a HIGH site rank.</td>
</tr>
<tr>
<td>NARL - Middle Salt Lagoon</td>
<td>Barrow</td>
<td>AK</td>
<td>Open</td>
<td>10/17/1988</td>
<td>Benzene has been documented in surface water. Contamination is transported by surface water and active zone water. The site is assigned a HIGH site rank.</td>
</tr>
<tr>
<td>NARL - Naval Arctic Research Lab</td>
<td>Barrow</td>
<td>AK</td>
<td>Open</td>
<td>10/17/1988</td>
<td>Gasoline, diesel spills of at least 700,000 gallons dating from 1970s. Also possible PCB contamination. Active soil layer from ground surface to about 20-55 inches below ground surface.</td>
</tr>
<tr>
<td>NARL - Old Waste Disposal Area</td>
<td>Barrow</td>
<td>AK</td>
<td>Cleanup Complete - Institutional Controls</td>
<td>10/17/1988</td>
<td>The 50-acre disposal area is located in the northwestern corner of the 535.5-acre Antenna Field Property. Many types of waste were disposed of including honey buckets, waste solvents, waste oils.</td>
</tr>
<tr>
<td>NARL - Former Dry Cleaning Facility</td>
<td>Barrow</td>
<td>AK</td>
<td>Cleanup Complete</td>
<td>10/17/1988</td>
<td>Stoddard solvent was used in dry cleaning operation at this facility from 1948 to 1974. The solvent was disposed of through floor drains to ground surface until 1972.</td>
</tr>
<tr>
<td>NARL - Radiation Laboratory</td>
<td>Barrow</td>
<td>AK</td>
<td>Cleanup Complete</td>
<td>10/17/1988</td>
<td>Through document reviews, interviews, and radiological surveys, no evidence of radiological contamination was found.</td>
</tr>
</tbody>
</table>
• **Aging and Failing Systems:** The Iḷisaġvik campus has buildings constructed as early as the 1940s and as late as the 1990s. They were not designed for educational purposes and they were not built with green technology. They are heavily insulated to withstand the arctic weather, but they are not adequately ventilated. There are times when the only way to cool off an office/classroom is to open the window, even when the outside temperatures are well below zero. Only one building, the Browerville Learning Annex, is on the centralized utility system known as the Utilidor, which provides for potable water and sewage collection. The electrical lines and telephone cables are also housed in the Utilidor. The NARL campus has to depend upon daily delivery of water via Iñupiat Water and the Ukpeaġvik Iñupiat Corporation (UIC.) The North Slope Borough and UIC pump sewage from holding tanks, which is processed at the on-site sewage treatment facility. The only on the NARL complex, Building 360, is built on pilings to keep the structure off the permafrost. All the other buildings are on slabs directly on the tundra. The heat from the buildings causes the permafrost to thaw and the ground to shift. The toilets in these buildings are lifted off the floor with homemade platforms, which makes for challenges with waste disposal. The lift stations in the main campus building are antiquated and unreliable. It has been necessary to release employees from the workplace due to offensive odors resulting from leaking and/or broken lift stations.

• **Inadequate Technology:** The facility was built decades before the use of personal computers. Iḷisaġvik Information Systems (IS) has created a server room by retrofitting an office space. In 1998, the server room consisted of four racks with three Banyan Vines servers. The Banyan servers maintained the network file shares and printer services, the Netware server hosted the Solomon financial software and the Microsoft server hosted the Registrar software package PowerCampus.

    The Server room is not connected to emergency backup power, in the event of a power outage its continued operation is limited by the use of Uninterrupted Power Supplies. These UPS will keep servers operating up to 30 minutes depending on the condition of the battery and load placed on the UPS.

    In the event of a fire, sprinkler leak or sprinkler system malfunction the College’s network servers and core infrastructure could be destroyed causing a complete loss of services to students, staff and faculty. An additional space is also needed to allow the IS department to create a disaster recovery site to allow minimal computer operations until primary system services can be restored. This additional space would also be required to be connected to the emergency backup power.
Iḷisaġvik College Existing Conditions Analysis

BUILDING SPECIFIC CONCERNS:

- **Building 360—Campus Administration, Dorms, Cafeteria**: Building #360 is one of the contaminated site areas identified by the US Navy. There was a fuel spill that has permeated the permafrost 20”-55”. There are also asbestos floor tiles. The generator for the building was replaced in 2014, but it does not provide backup for key operating systems for the College, including IT. There is lead in the solder joining the copper water pipes. The building has 24/7 public access.

  The building has undergone a myriad of changes over the years. The only constants have been the cafeteria space and the Dr. Albert Conference Room. Currently, the building houses all but one of the executive level offices, registration, the business office, the Student Success Center, Information Services, other administrative offices, and the dormitories.

  - **Cafeteria**: the kitchen space is cramped and there is limited storage space. Most of the food is stored in a warehouse that is not connected to the building. The dining area is large and it is very difficult to regulate the temperature in the room.

  - **Registration**: two offices are occupied by Registration/Admissions. This is an area of high security and many files must be retained in perpetuity. There is no security. During spring and fall registration, areas must be set up in the Dr. Albert conference hall to accommodate all the students and faculty. Little privacy is offered to students who need advice and assistance with the registration process. Items used for commencement ceremonies are stored in several areas throughout campus.

  - **Offices**: Many of the office spaces are inadequate. Some spaces are large, but not large enough for two work stations. Other offices are very small and only accommodate a desk and chair. Due to an aging boiler system, the temperatures in the offices vary greatly.

  - **Information Services**: The spaces dedicated to IS are spread throughout campus. The offices for our technicians are at the opposite end of the building from where the server and telephone rooms are housed. Their space is crowded and lacks storage. The server rooms have a sprinkler fire-suppression, which is inadequate and unsafe fire protection for sensitive electronics. The server room has been carved out of former office space. Holes have been drilled in the floors to keep the room from overheating.

  - **Dormitories**: Due to lack of housing in Barrow, the dormitories are used by both students and faculty/staff. They are basic, with twin beds, a dresser and a closet. The bathroom facilities are not private. In 2014, the bathrooms were renovated to accommodate the American’s with Disability Act guidelines. The only handicapped access to the dormitories is at the opposite end of the building, approximately 40 yards away from the dorms themselves. We have now instituted a locked door policy between the hours of 11 pm and 7 am; thereby, limiting public access to Building 360.

- **Building #5**: is being used primarily by the Workforce Development (WFD) and Cooperative Extension staff. There is a mid-sized classroom and a large, open-to-the-ceiling storage/work bay/training area downstairs. Upstairs houses four offices and a
small meeting room. The building is not handicapped accessible and there is no elevator. Workforce Development hosts classes with the highest participation rates. The classroom quickly becomes too crowded. There is one bathroom downstairs, the entrance of which is located in the classroom itself. It lacks privacy. The classroom is uncomfortably warm due to improperly uninsulated boiler pipes. The windows do not open fully. The storage/training/workspace space is co-utilized by WFD and Ilisagvik’s Maintenance and Operations (M&O.) M&O parks heavy equipment in Building 5 to prevent damage due to harsh environmental conditions. The equipment must be constantly shuffled back and forth to accommodate classroom/training needs. The building is insulated with a yellow spray-on insulation that is extremely flammable. The spray-on, fire-blocking coating (popcorn) is crumbling, leaving the insulation exposed. There is a small area fenced off for M&O supplies. WFD has many training items that need secure, clean storage, which is currently lacking. The upstairs offices are small, cramped and inadequately ventilated.

- **Hut #58:** Houses the academic programs, including Allied Health. This Quonset hut was built in 1965. Non-friable asbestos is present as a component of wall boards in the boiler or “Dravo” room. These rooms have to remain locked and not used. There is no room for expansion of any kind. Every usable space of the building has been utilized as classroom and/or office space. The building is two-stories, but does not have an elevator. Many of the faculty offices do not have windows which causes egress issues in case of fire or required evacuation. There is no handicapped access. The only possible changes to the building are the reconfiguration of office/classroom space, but the issue of asbestos keeps those options limited.

- **Hut #60:** Is one of the older buildings on campus. It was built in 1948. Non-friable asbestos is present as a component of wall boards in the boiler or “Dravo” room. These rooms have to remain locked and not used. In the early 1990s two lab spaces were built out of what were originally four classrooms. Neither lab is being used to its fullest potential. The lab used by the science instructor does not meet the needs of her class. Due to limited space and asbestos, there is no possibility of retrofitting the lab. The second lab space is used by the ABE/GED program. The program is housed in Hut #60 because there is no other location for them. This is an inappropriate use of the space and does not address their needs. Renovating the space is not possible since Ilisagvik does not have site control. This is a two-story building without an elevator or handicapped access.

- **Hut #61:** Was built in 1948. It houses the heavy-equipment operator instructor and classes. This is another building that has areas off limits due to asbestos. This hut is configured differently than 58 and 60. Instead of several classrooms and offices, it has a large workshop area, a faculty office and a small classroom. It has similar problems to the Quonsets used for the academic programs. It is two-story and has no elevator or handicapped access. There is no room for expansion.

- **Hut #63:** Is used by Ilisagvik’s Construction Trades program, specifically Electrical Trades. It was built in 1958. Non-friable asbestos is present in the boiler room. This particular hut has the bathroom facilities upstairs. They are not handicapped accessible and there is no elevator. There is a large workspace, a small faculty office and a small
classroom. Currently, renovation or remodeling the space is not an option due to lack of
site control and asbestos. The space lacks significant, secure storage.

**Hut #65:** Houses Ilisaġvik’s Construction Trades program, specifically Welding, Plumbing and Pipefitting. Due to lack of teaching space, these programs cannot run concurrently. All instructors share the same office and classroom. The building is insulated with a yellow spray-on insulation that is extremely flammable. The spray-on, fire-blocking coating (popcorn) is crumbling, leaving the insulation exposed. The storage needs for these programs are immense. Connexes from the fall cargo barges are purchased and stacked throughout the campus and used as storage containers. They are not secure, heated or easily accessed. With the closing of the only hardware/building supply store in town, the need to purchase teaching supplies early and having them arrive via the barge rather than by prohibitively expense air cargo creates a greater need for storage. With the high cost of building and the Arctic environmental conditions, warm storage is at a premium.

- **Building #255:** Is a two-story building currently used as storage and for shipping and receiving. All the campus archives and records are stored there. In addition to paper files, items used for graduation ceremonies are stored there as are items used by the kitchen. At one point, the building was used for Construction Trades. If the records were relocated, there is a possibility of retrofitting the building for classrooms or offices, but the building is large and not well insulated. Information Services has considered putting a redundant server in this building in order to have a backup system.

- **Building #352:** Is used as the gymnasium. A new floor was poured for the ½ basketball court in 2014. There is a weight room downstairs. The bathroom is upstairs and is not handicapped accessible. Upstairs hosts the treadmills and other exercise equipment. The recreation center does not have showers or traditional, gender-specific locker rooms.

- **Browerville Learning Center:** Over 30 classes are taught at the Browerville Center (BVC) every semester. The Center is occupied approximately 90 hours each week. The building has the potential for expansion by demolishing the existing roof, adding windows and expanding the second floor to make room for two more classroom spaces. The renovation would also include another bathroom. The BVC only has two classrooms that are handicapped accessible. A Project Analysis Report was completed in 2016 and this project is currently on hold while funding for a new campus is being pursued.

- **Tuzzy Consortium Library:** The library occupies 11,500 square feet and resides within the Iñupiat Heritage Center building in Browerville. It has a main reading room and book stacks. Seating capacity in this area accommodates 65 people including 11 workstations with connections to the internet. There is an expanded children’s room with play/story space, tables and seating for 20 youngsters, 3 workstations and 2 early learning stations. A new teen room has seating for 12 including 4 workstations, a classroom with seating for 20 and a videoconference room with seating for 8. Staff occupies five offices and expanded work space for the cataloger and administrative assistant and new offices and

51
workspace for the public services librarian and archivist. There is a rare book room, a video storage room, an equipment room and a server closet. A larger storage area and large project workspace are part of the expanded staff area.
<table>
<thead>
<tr>
<th>Building</th>
<th>Year Built</th>
<th>Condition</th>
<th>Use</th>
<th>Site control</th>
<th>Suggested Changes and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>360</td>
<td>1968</td>
<td>Average +</td>
<td>Main administration building, dorms, cafeteria, NSB Wildlife and UIC Science labs</td>
<td>UIC</td>
<td>Fire extinguishers--campus wide-$6500 (completed Fall 2017)  Door holders for lockdown zones-$7,000  Monitoring of fire alarms--$14,605  Server room upgrades--$80,000 (NARL server room completed Fall 2017 – only Tuzzy Remains $40K+)</td>
</tr>
<tr>
<td>352</td>
<td>1994</td>
<td>Good</td>
<td>gymnasium</td>
<td>UIC</td>
<td>Gender-specific locker rooms with showers  Additional restrooms</td>
</tr>
<tr>
<td>255</td>
<td>1972</td>
<td>Average</td>
<td>warehouse</td>
<td>UIC</td>
<td>Free up work space to create office space and/or classroom space- Approx. cost $100,000</td>
</tr>
<tr>
<td>65A (#1)</td>
<td>1958</td>
<td>average</td>
<td>Maintenance workshop</td>
<td>UIC</td>
<td>Needs increased storage space.  Secure office for national exams</td>
</tr>
<tr>
<td>65</td>
<td>1958</td>
<td>average</td>
<td>Voc-Ed Welding, Plumbing</td>
<td>UIC</td>
<td>Relocate restroom facilities to the first floor</td>
</tr>
<tr>
<td>63</td>
<td>1958</td>
<td>Average</td>
<td>Voc-Ed Construction</td>
<td>UIC</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>1948</td>
<td>Good</td>
<td>Voc-Ed Heavy Equip</td>
<td>UIC</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>1948</td>
<td>Average</td>
<td>ABE/GED Academic</td>
<td>UIC</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>1965</td>
<td>Fair</td>
<td>Allied Health/Academic</td>
<td>UIC</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1975</td>
<td>Fair -</td>
<td>Workforce Development/Co-op Extension</td>
<td>UIC</td>
<td>• Expansion of the classroom in Building 5—Enlarge classroom space—approximately 270 sq ft. Add LED lighting--$62,000  • Install adequate ventilation/air handling.  • It may fit perfectly where/when bathroom is vacated but also might be better in shop area where equipment is stored. * Insert 40x18 wall across building. Install commercial grade heater, man door, chain-link fence, with 6' swing gate to provide security for training equipment. $60,000  • Construct 2 storage rooms upstairs, sheet rocked, 2 commercial grade doors, 4 LED lights. New posts for stair railing. $35,000</td>
</tr>
<tr>
<td>4493 North Star</td>
<td>1975</td>
<td>Average +</td>
<td>Browerville Learning Annex</td>
<td>NSB</td>
<td>Demo existing roof, add windows, extend second floor to create additional classroom space, add new bathroom $400,000</td>
</tr>
<tr>
<td>Tuzzy Library</td>
<td>2012</td>
<td>Good</td>
<td>Library</td>
<td>NSB</td>
<td>Expansion completed in 2012.</td>
</tr>
</tbody>
</table>
Parking: Currently, the NARL campus has ample parking, but not all of the parking spaces have a bull rail used to plug in vehicles during periods of extreme cold. The Browerville Center has limited parking areas.

Conclusions:
- ɬisaġvik does not have site control of any of the buildings on campus. This reduces funding opportunities.
- The numerous small buildings are inadequate for current instructional methods and should be replaced by larger, more energy efficient structures with modern classroom amenities and informal learning areas.
- Campus infrastructure and building systems are obsolete and failing and will require increased maintenance funding unless replaced.
- Many of ɬisaġvik’s buildings are located on contaminated waste sites.
- The lack of Utilidor service results in high utility costs for the College as well as health and sanitation concerns.
- The space in current facilities is maximized. There is no room for expansion within the existing configuration.
4.0 COST ESTIMATES

The following is a rough order of magnitude construction cost estimate based on Program Needs Analysis. The site development costs assume a fully developed gravel pad over a 10 acre site. The site costs have been applied as follows: 50% applied to Phase 1; 25% applied to Phase 2; and 25% to Phase 3. The road and utility costs are included in Phase 1 only. A detailed estimate has not been performed.

Table 2 – Project Cost Estimate

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Phase 1 62,055 s.f.</th>
<th>Phase 2 39,647 s.f.</th>
<th>Phase 3 48,498 s.f.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Building and Site (pad, utilities, road)</td>
<td>PAR Estimate</td>
<td>$51,426,400</td>
<td>$30,161,720</td>
<td>$36,858,480</td>
<td>$118,446,600</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Design</td>
<td>8%</td>
<td>$4,114,112</td>
<td>$2,412,937</td>
<td>$2,948,678</td>
<td>$9,475,727</td>
</tr>
<tr>
<td>Professional Services</td>
<td>CA</td>
<td>4%</td>
<td>$2,057,056</td>
<td>$1,206,468</td>
<td>$1,474,339</td>
<td>$4,737,864</td>
</tr>
<tr>
<td>Permit</td>
<td>Building &amp; COE (excludes wetland offset fees)</td>
<td>0.3%</td>
<td>$154,279</td>
<td>$90,485</td>
<td>$110,575</td>
<td>$355,340</td>
</tr>
<tr>
<td>NSB Administration</td>
<td>NSB Project Management</td>
<td>5%</td>
<td>$2,571,320</td>
<td>$1,508,086</td>
<td>$1,842,924</td>
<td>$5,922,330</td>
</tr>
<tr>
<td>Art/LEED/Other</td>
<td>Misc. Costs</td>
<td>2.5%</td>
<td>$1,285,660</td>
<td>$754,043</td>
<td>$921,462</td>
<td>$2,961,165</td>
</tr>
<tr>
<td>Furniture Fixtures &amp; Equipment (FF&amp;E)</td>
<td>FF&amp;E</td>
<td>5%</td>
<td>$2,571,320</td>
<td>$1,508,086</td>
<td>$1,842,924</td>
<td>$5,922,330</td>
</tr>
<tr>
<td>Change Order Reserve</td>
<td></td>
<td>8%</td>
<td>$4,114,112</td>
<td>$2,412,937</td>
<td>$2,948,678</td>
<td>$9,475,728</td>
</tr>
<tr>
<td>Contingency</td>
<td></td>
<td>15%</td>
<td>$7,713,960</td>
<td>$4,524,258</td>
<td>$5,528,772</td>
<td>$17,764,990</td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td></td>
<td></td>
<td>$76,008,219</td>
<td>$44,579,022</td>
<td>$54,476,833</td>
<td>$175,064,075</td>
</tr>
<tr>
<td>Future Cost if funded in 2018 (3.5% year Inflation)</td>
<td></td>
<td></td>
<td>$78,668,507</td>
<td>$46,139,288</td>
<td>$56,383,523</td>
<td>$181,181,317</td>
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<tr>
<td>Future Cost is funded in 2020 (3.5% year Inflation)</td>
<td></td>
<td></td>
<td>$84,271,671</td>
<td>$49,425,559</td>
<td>$60,399,439</td>
<td>$194,096,669</td>
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<tr>
<td>Future Cost if funded in 2025 (3.5% year Inflation)</td>
<td></td>
<td></td>
<td>$100,088,310</td>
<td>$58,702,059</td>
<td>$71,735,587</td>
<td>$230,525,956</td>
</tr>
</tbody>
</table>
New Iḷisaġvik College Campus Signatures

Iḷisaġvik College has collected over 350 individual signatures from community members in Utqiaġvik, with several more in from communities across the North Slope.

By providing their name, the signatories indicated their full support towards a New Iḷisaġvik College Campus in Utqiaġvik.

Iḷisaġvik College is happy to share the signature pages with CIPM at any time.
PROJECT NAME: Kaveolook School Replacement
LOCATION: Kaktovik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-NEW-01 TYPE: New
DATE SUBMITTED: 2/19/2020 AMOUNT REQUESTED: 20,000,000
REQUESTING ENTITY: NSBSD AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD
2. PROJECT NAME: Kaveolook School Replacement
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This request is to provide funding to cover the funding gap between insurance proceeds from the recent loss of the Kaveolook School in the community of Kaktovik.

4. PROJECT LOCATION:
Kaktovik
PROJECT NAME: Kaveolook School Replacement
LOCATION: Kaktovik

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

20,000,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>(Design, legal, other)</td>
<td></td>
<td></td>
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<tr>
<td>Construction / Acquisition</td>
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<td>(anticipated costs)</td>
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<td></td>
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</tr>
<tr>
<td>Administration</td>
<td></td>
<td></td>
<td>$500,000</td>
</tr>
<tr>
<td>(NSB project management)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contingency</td>
<td></td>
<td></td>
<td>$500,000</td>
</tr>
<tr>
<td>(if not included in other line items)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Costs</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>(with description)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$20,000,000</td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☑ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☒ No ☑ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   This has the potential to be phased but not recommended for phasing due to the nature of the project.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Kaveolook School Replacement  
LOCATION: Kaktovik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No  □ Yes
   If Yes, is it scheduled for replacement before 2025?  □ No  □ Yes
   If No, explain why it should be considered out of sequence:
   The school was a total loss after a catastrophic fire on February 6th-7th.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       This will provide for a permanent replacement of the school that was lost in the fire.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       It will replace a previously existing facility and has the potential to decrease operating costs due to having new building systems

    C. Indicate if this is a reoccurring upgrade or repair.
       No

    D. Detail outside funds being leveraged, if applicable.
       Insurance proceeds from the claim

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes (If yes, include written verification)
       Explanation, if necessary:
       The existing structure was destroyed in a fire.

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: Kaveolook School Replacement
LOCATION: Kaktovik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Bernadette Fischer, CIPM Program Manager (on behalf of NSBSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td>[Signature Image]</td>
</tr>
<tr>
<td>Date:</td>
<td>2/19/2020</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Bernadette Adams, CIPM Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>[Signature Image]</td>
</tr>
<tr>
<td>Date:</td>
<td>2/19/2020</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Districtwide Technology Upgrades
LOCATION: Districtwide (areawide)

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-NEW-02 TYPE: NEW
DATE SUBMITTED: 3/2/2020 AMOUNT REQUESTED: $500,000
REQUESTING ENTITY: NSBSD AMOUNT RECOMMENDED: $0

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning
Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD

2. PROJECT NAME: Districtwide Technology Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
village. Attach additional sheets if necessary.

Procure and deploy offsite backup servers for each community. This will include servers, switches, storage
area network, power protection, fiber and accompanied software. Additionally, this will serve to provide
replacement hardware for Kaktovik.

4. PROJECT LOCATION:

DISTRICTWIDE All Villages and Utqiagvik
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$500,000

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>(Design, legal, other)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>Equipment</td>
<td>Estimate</td>
<td>$490,000</td>
</tr>
<tr>
<td>(anticipated costs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>NSB Project Management</td>
<td>Estimate</td>
<td>$10,000</td>
</tr>
<tr>
<td>(NSB project management)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contingency</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>(if not included in other line items)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Costs</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>(with description)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>$</td>
<td>$500,000</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different) $**

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** ☒ No □ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ☒ No □ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

No phasing as this project will be requested annually and new project numbers requested annually.

B. If this request is for an areawide project, provide an estimated cost breakdown for how much will be spent at each site.

Cost Breakdown will be provided at a later date.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       The need for offsite backup servers was highlighted by the data loss experienced from the Kaktovik school fire.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       This will not significantly increase costs, but will provide continuity of services in the event of an emergency
    C. Indicate if this is a reoccurring upgrade or repair.
    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: Districtwide Technology Upgrades

LOCATION: Districtwide (areawide)

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

| Requestor Name and Title: Kristine Hilderbrand, Executive Director of Operations NSBSD |
| Signature: [Signature] | Date: 3/2/2020 |

| Department Director Name: |
| Department Director Signature: [Signature] | Date: 3/2/2020 |

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: NSB Gravel
LOCATION: Barrow/Kaktovik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 07-272
DATE SUBMITTED: 02/26/2020
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: NSB Gravel
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
   1. Kaktovik-Roads repairs, minor upgrades, 50,000 cu yards x $100 cu. yard = $5,000,000
   2. Barrow- Road Repairs, storm response contingency. 50,000 cu. yards x $45 cu. yard = $2,250,000

4. PROJECT LOCATION:
   Barrow/Kaktovik
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$7,250,000

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Permitting, Design</td>
<td>15%</td>
<td>$1,087,500</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$4,937,500</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>PBW Employee</td>
<td></td>
<td>$500,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
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<td>10%</td>
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</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$7,250,000</strong></td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**

☐ No  ☑ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ☑ No  ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

   N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       NSB Roads require maintenance and lifts as they shift to close to and sometimes below grade. Kaktovik does not have adequate gravel for roads and airport needs. Exploration for possible sites near the Kaktovik community would greatly benefit the community for these needs.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       no

    C. Indicate if this is a reoccurring upgrade or repair.
       Yes, this is an annual request until roads are all upgraded.

    D. Detail outside funds being leveraged, if applicable.
       none

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Roads are sinking due to permafrost decline and if roads sink below ditch level, water will settle on the roads.
PROJECT NAME: NSB Gravel
LOCATION: Barrow/Kaktovik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? [X] No  [ ] Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
[ ] No  [X] Yes (If yes, include written verification)
Explanation, if necessary:
If roads are not maintained it creates wear and tear on all equipment and costs time to get to areas like landfills which are outside of each community.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
[ ] No  [ ] Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
N/A

16. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, Deputy Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date: 3/10/28</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/10/20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: East Barrow Lot Roads
LOCATION: Barrow, Ak

NSB PLANNING DEPARTMENT USE ONLY
 TEMPORARY/CIP PROJECT NUMBER: 07-267
 TYPE: UpFund
 DATE SUBMITTED: 3/4/2020
 REQUESTING ENTITY: 3/4/2020
 AMOUNT REQUESTED: $5,007,000
 AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY:

2. PROJECT NAME: East Barrow Lot Roads

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is a road construction project which consists of 5 planned phases which will bring access to approximately 255 residential lots to the community of Barrow.

Phase 1. ligu St.: This completed phase is fully funded by the NVB at approximately $2.7 Million. Approximately 20% of the entire project.

Phase 2 Consist of constructing a new road (Simik which is south of Ahgeak Street) and the installation of utilities for these lots.

This phase provided access to approximately 62 residential lots. The 1st phase also included full design and permitting of all 5 phases. So each subsequent phase is shovel ready when construction dollars are made available.

With a phase 1 fully paid for by NVB, This NSB Capital Project Request is for phase 2 construction of approximately 0.63 miles of road way and the installation of gas and electric utilities which are all situated south of existing Ahgeak Street to provide access to 62 Lots.

4. PROJECT LOCATION:

Barrow, Ak
5. **Dollar $ Amount of This Request**: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$5.07 Million for Phase 2. Remaining Phases are estimated approximate $5.07 Million per phase based on most recent estimates using UMI AQ's utilities estimations on NSB Barrow's Comprehensive plan. Total of phases 2-5 is estimated at approximately $20.28 Million. See attachments for full project breakdowns of cost and a phase exhibit map.

6. **Project Cost**: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$ N/A</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>12% of construction</td>
<td>Engineer Estimate</td>
<td>$1,671,406</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>Engineer Estimate</td>
<td>$13,928,381</td>
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<tr>
<td>Administration (NSB project management)</td>
<td></td>
<td>Engineer Estimate</td>
<td>$1,559,979</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td>Engineer Estimate</td>
<td>$3,119,958</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$20,279,724</td>
</tr>
</tbody>
</table>

7. **Will All or a Portion of Funding Be Needed Before November 2020?**  
   - [x] No  
   - [ ] Yes  
   *If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.*

8. **Project Phasing or UPFUND:**
   *If this a phased project or a follow-up to an existing CIP project?*  
   - [ ] No  
   - [x] Yes  
   *If yes, indicate name and CIP project number:*  
   - [This funding is for the project to be built phases 2-5 planned over the next 4 years at $5 Million a year.]*
   - [B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.]*
   - [Not an Areawide project.]*
   - [C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.]*
   - [Approximately $5.07 Million for the first year and approximately $15.2 Million in future years]*
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☐ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       There is a housing crisis in Barrow and this project will alleviate some of this.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       Use Phase 2 of the project will add approximately 0.63 Miles of road to Barrow's existing road infrastructure, providing access to approximately 62 residential Lots (Phase 2 only)

    C. Indicate if this is a reoccurring upgrade or repair.
       Reoccurring road repair and utility is anticipated,

    D. Detail outside funds being leveraged, if applicable.
       The Native Village of Barrow has dedicated approximately $3 Million to this project's 1st Phase. Approximately 20% of the total project cost phases 1-5.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☑ No ☑ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
Attachment A: Phase Map and Project Cost Breakdowns.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<tr>
<td>Signature:</td>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: ROAD Improvement Project
LOCATION: Barrow

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
   Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Barrow Public Works
2. PROJECT NAME: AW Road Improvement Project
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
   village. Attach additional sheets if necessary.

Road Improvement project Kiogak St., fro Nachik to Agvik an Eben Hopson from Agvik to EgasakLaura
Madison fro A Avenue to Stevenson.

7,386.70 cubic yard x $46.00 = $339,788.00 for Kiogak and Eben Hopson
17,631.10 cubic yard x $46.00 = $811,030.00 for Laura Madison
Wages $ 29,235.00

Grand Total $1,180,053.00

4. PROJECT LOCATION:

Barrow
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$1,180,053.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
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<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
<td></td>
<td>$</td>
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<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td></td>
<td>$1,150,818.00</td>
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<td>PBW Employee</td>
<td>PBW Employee</td>
<td>$29,235.00</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

TOTAL $1,180,053.00

TOTAL PROJECT COST (if different) $0

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? [ ] No [ ] Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? [ ] No [ ] Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
      N/A
   B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.
      N/A
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   ____________________________
   Road improvement

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       ____________________________
       Roads are sinking below culvert and ditch levels and if that happen water will settle on the roads and deteriorate the roads.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       □ No
       ____________________________
    C. Indicate if this is a reoccurring upgrade or repair.
       □ Yes, every 5 years.
       ____________________________
    D. Detail outside funds being leveraged, if applicable.
       □ none
       ____________________________

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       ____________________________
       Explanation, if necessary:
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       ____________________________
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       ____________________________
       Roads are sinking due to permafrost decline and if roads sink below ditch level, water will settle on the roads.
       ____________________________
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
   Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   ☐ No  ☒ Yes  (If yes, include written verification)
   Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
   ☒ No  ☐ Yes  If yes, indicate PAR name and date:
   Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
   N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
   N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, Deputy Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td>7/10/20</td>
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<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Director, Department of Public Works</th>
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<td></td>
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<tr>
<td>Date:</td>
<td>3-10-20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Gaswell Road Upgrade Phase 1
LOCATION: Barrow, Ak

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 07-279
DATE SUBMITTED: 03/10/2020
REQUESTING ENTITY: NSB Public Works

NSB PLANNING DEPARTMENT USE ONLY
TYPE: New UpFund
AMOUNT REQUESTED: $2,400,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB Public Works
2. PROJECT NAME: Gaswell Road Upgrade Phase 1
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The first phase of this project would upgrade the existing roads in the east Barrow Gas Fields in Barrow from the end of Cakeeater Road. Just past the landfill turnoff, as shown in two segments in the site plan submitted with this request.

The gas field roads were constructed from 1979 to 1980 by placing five of compacted gravel fill over the tundra surface without insulation. The gasfield road embankments have subsided into the tundra. The top surfaces of the roads are at the same elevation as the adjacent tundra surface. Water ponds on these roads during thawed conditions and snow accumulates on the roads during freezing conditions. The roads need to be raised above the tundra surface.

It is essential that gasfield personnel have dependable access to this critical infrastructure to ensure reliable service to residents year round.

The east Barrow Gas Field includes 11.84 miles of roads. The entire project would consist of:
-Placing geotextile and two two feet of fill over existing road embankments.
-Reduce road widths by 2 to 6 feet.
-Install 35 culverts of various sizes.
-Install signs and flexible markers along the roadway

A PAR and draft 35% design are complete.

4. PROJECT LOCATION:
Barrow, AK
PROJECT NAME: Gaswell Road Upgrade Phase 1
LOCATION: Barrow, Ak

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$2,400,000
The Total request for Phase 1 is: Phase 1 construction ($2,000,000), NSB admin costs (200,000), and contingency ($200,000) for a total request of $2.4 Million.
$1,900,000 Awarded in 2019. 2.4 Million requested in 2020 to complete construction.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>Project Analysis Report</td>
<td>Actual Cost</td>
<td>$100,000</td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design and construction administration 8%</td>
<td>PAR Estimate, Increased 2% for phased projects</td>
<td>$1,400,000</td>
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<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>PAR Estimate</td>
<td>$17,500,000</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>NSB Project Management 5%</td>
<td>PAR Estimate</td>
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</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>20%</td>
<td>PAR Estimate</td>
<td>$4,375,000</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>Escalation 2.5%</td>
<td>PAR Estimate</td>
<td>$1,260,000</td>
</tr>
</tbody>
</table>

TOTAL $ 4,300,000
TOTAL PROJECT COST (if different) $ 26,385,000

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ✓ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ✓ No ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   The project could be phased over five or more years.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   N/A
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
   Approximately $5.5 Million would be needed annually for four additional years to fund the entire project.
PROJECT NAME: Gaswell Road Upgrade Phase 1
LOCATION: Barrow, Ak

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   Utility roads in Barrow were assigned a 80 years life span, unrealistic when considering that the roads were constructed without insulation or culverts. While these utility roads have been continuously maintained, the nature of their 1980 design limits their use for another 40 years without significant.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       The existing roads, experience flooding, wet, and undrivable conditions, especially during spring break up. During thaw, the roads become soft, during freezing conditions, snow accumulates. Both of these conditions restrict NSB’s Operations as well as community access.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       This project would likely decrease road maintenance costs.
    C. Indicate if this is a reoccurring upgrade or repair.
       This is a request for a needed upgrade.
    D. Detail outside funds being leveraged, if applicable.
       None

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No  ☑ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
NSB East Barrow Gas Field Roads PAR 35% Drawings Site Plan C2.0:

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, RA&amp;S Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>![Signature]</td>
</tr>
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</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME:  
LOCATION:  

NSB PLANNING DEPARTMENT USE ONLY  
TEMPORARY/CIP PROJECT NUMBER:  
DATE SUBMITTED:  
REQUESTING ENTITY: Housing Department  
TYPE:  
AMOUNT REQUESTED:  
AMOUNT RECOMMENDED:  

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES  

CIP PROJECT REQUEST FORM  
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:  
1. Complete this form electronically.  
2. Email the completed PDF form to CIP@north-slope.org.  
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Housing Department  

2. PROJECT NAME:  

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

4. PROJECT LOCATION:

Department of Planning and Community Services, Community Planning Division  
Revised Department Project Request Form – June 2019  
Page 1 of 4
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<td></td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
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<tr>
<td>Administration (NSB project management)</td>
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</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
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</table>

**TOTAL PROJECT COST (if different)** $ 

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** □ No □ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UFPUND:**
   Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:
Requestor Name and Title:
Signature: Date:
Department Director Name:
Department Director Signature: Date:

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS New W/S Service Connections
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 59XQ 09-142 TYPE: Upfund
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $5,794,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BUS New W/S Service Connections
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
village. Attach additional sheets if necessary.

This is an up-funding request to cover construction, design, and administrative costs for new water and
sewer connections to the Barrow Utilidor System. Currently, there are over 81 applications submitted for
new water and sewer service connections. This Project Request is to complete the first 20 residences that
are ready for connections.

4. PROJECT LOCATION:
Barrow
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Project request is $5,793,913.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A&amp;E Design Services @8%</td>
<td>$ 324,135</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>Historic costs</td>
<td>$ 4,051,688</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td>$ 405,169</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>25% Contingency</td>
<td>$ 1,012,922</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$ 5,793,913</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td></td>
<td><strong>$ 17,961,131</strong></td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☑ No ☒ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
      This project is a continuation of the Barrow Service Connection project.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      $5,793,913 is needed to install 20 connections. To install the remaining 40 connections, an additional $12,167,218 will be needed.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2025? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Re-funding this project is necessary in order to provide basic water and sewer service to new applicants and decrease dependence on hauled water and sewer.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This will expand facilities and meet the Borough’s mission to increase the availability of clean water and sanitary sewer disposal to residents.

C. Indicate if this is a reoccurring upgrade or repair.
This is a recurring up-fund request.

D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
PROJECT NAME: BUS New W/S Service Connections

LOCATION: Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  *(If yes, include written verification)*
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  □ Yes  *(If yes, include written verification)*
Explanation, if necessary:
Considerable effort and resources are need to maintain truck haul to services that are on holding tanks.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No  □ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>
PROJECT NAME: Wainwright Water Treatment Plant Upgrade
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-145
DATE SUBMITTED: 3/11/2020
AMOUNT REQUESTED: $6,490,000
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Wainwright Water Treatment Plant Upgrade
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
   village. Attach additional sheets if necessary.

This project requests additional funding for construction upgrades to the Water Treatment Plant (WTP) for the community of Wainwright.
This project replaces two of the three buildings associated with the Wainwright WTP which have reached the end of their serviceable life. The existing
foundation has documented pile concerns, the maintenance building bay floor has failed, the heating boilers have reached the end of their life and
refurbishment is not an option as they are undersized and parts no longer available. The Wainwright WTP is one of the oldest plants on the North
Slope and is in a seriously dilapidated state.

The maintenance building and the boiler/pump building will be demolished and a 4700 square foot addition to the treatment building will be
constructed. The new addition will house the garage/maintenance room, a mechanical room for new larger boilers, heat exchangers, fire pump,
distribution pumps, chemical storage rooms, administrative office space, a break area, rest rooms, and storage.

The project design was shelved in 2013 because of a lack of construction funds. Funds were approved during the 2018-10 funding cycle in the amount
of $175,000 to bring the shelved 95% design up to current codes and standards. CIPM engaged the engineering firm that had brought the design to
95% and entered into contract. Construction funding was approved through 2019-10 in the amount of $9,558,000 with the requested funding amount
based on escalation of the 2013 construction estimate. Once construction funding was secured, the contract with the Engineer of Record Firm was
change ordered to take the design to bid documents.

The bid opening for the AIN WTP Upgrades construction was held March 5, 2020 with the bid amounts as follows: (1) $10,890,000, (2) $12,085,452, and
(3) $14,275,000. This exceeded the high end of the new Construction Estimate released in January 2020 from the Engineer of Record. As of Bid date,
the project balance was approximately $1,500,000 short to award the construction bid to the lowest responsive bidder. Additionally, we do not have a
contract in place for Construction Administration Services. CIPM received a Proposal from the Engineer of Record to provide 18 months of CA Services
for $1,300,000. Bid Results and the CA Services Proposal are attached.

4. PROJECT LOCATION:

Wainwright
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Total estimated cost of Construction and CA Services: $12,300,000. (Based on March 5, 2020 bid and CA Services Proposal)
10% Direct Cost Administration: $1,230,000, 20% Contingency: $2,460,000
$1,500,000 Construction + $1,300,000 CA Services + $1,230,000 DCA + $2,460,000 Contingency.
Total funds deficient and requested: $6,490,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Construction Administration</td>
<td>Engineer Quotation (Jacobs)</td>
<td>$1,300,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Cost is amount deficient to award March 5 bid</td>
<td>Bid Results - March 5, 2020</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10% Direct Cost Administration</td>
<td>10% of $12,300,000</td>
<td>$1,230,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>20% Contingency</td>
<td>20% of $12,300,000</td>
<td>$2,460,000</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$6,490,000</td>
</tr>
<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td></td>
<td>$15,990,000</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☑ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
If yes, indicate name and CIP project number: 59-145 Wainwright WTP Upgrades
A. If this is a new request, indicate below whether this project could be phased and over how many years.
Phasing will be difficult as construction requires sequencing and coordination to keep the plant operating while under construction.
B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
This is not an areawide project.
C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
This is not a phased project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   This project was scheduled for replacement in 2013.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       A new addition to the WTP will provide a new maintenance shop, chemical storage room, new heating and pumping equipment, a new office, break room and bathrooms. Updated work areas will provide a more modern and efficient use of space.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       This project will not expand facilities or services, but will replace outdated and seriously dilapidated facilities reducing operating and maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.
       No

    D. Detail outside funds being leveraged, if applicable.
       None

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
       The floor of the maintenance bay has failed and portions of the bay are barricaded off for safety. Some of the pilings under the portion of the plant that will be retained need to be cut off at ground level and have steel pilings attached.

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:
An updated facility will reduce maintenance costs directly associated with the Wainwright WTP.

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?
☒ No  ☐ Yes  If yes, indicate PAR name and date: WH Pacific PAR, 2010
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.
2010 WH Pacific PAR, Jacobs Design Trip Report dated June 28, 2019, Construction Bid Opening Results from March 5, 2020, Engineer of Record CA Services Proposal.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.11.20</td>
</tr>
</tbody>
</table>
PROJECT NAME: AKP Water & Sewer Connections Phase 1
LOCATION: Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 39-148
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $3,377,000
REQUESTING ENTITY: Public Works Water & Sewer Utility
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: AKP Water & Sewer Connections Phase 1

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Anaktuvuk Pass has 21 homes that have requested service connections to the piped water and sewer system. These homes are currently receiving tank truck haul service or are served by honey bucket. The village water supply and water treatment/distribution plant has the capacity to support the new services. The wastewater treatment plant is adequately sized for the additional services. Very few homes have been added to the piped system since it was installed in the late 1990's.

Completion of this project will move homes from truck haul to piped water and sewer.

2019 PRC appropriated funds anticipating approximately 10 services to be connected out of the original 21 scoped.

Additional scope for this project adds connection of the Senior Center, NSB Itinerant Housing and 5 TNHA homes to the service connection scope. These buildings were not in the original project design and have been added to the service connection list since. The Senior Center is fully occupied and is tanker service intensive for Public Works. At times of high occupancy, the NSB Itinerant House also puts high demand on the truck service.

4. PROJECT LOCATION:

Anaktuvuk Pass
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

2019 PRC Appropriation $1,850,000
2020 request $3,376,226

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>Project Analysis Report</td>
<td>Previously funded @ 142,360</td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design &amp; Construction Administration</td>
<td>Previously funded @628,935, Costs are for new scope</td>
<td>$ 35,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>CNST/PM/Profit/OH</td>
<td>Design estimate Inflation adjusted plus new services</td>
<td>$ 2,661,248</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin @10% Total</td>
<td>Historical</td>
<td>$ 251,325</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>20% of Construction Costs</td>
<td></td>
<td>$ 428,650</td>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$ 3,376,226</strong></td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) **$ 5,997,518**

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UFPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes

If yes, indicate name and CIP project number: 59-148 Anaktuvuk Pass Water & Sewer Connections Phase 1

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Project funding was provided in part for 2019. Additional phase can be accomplished with this request.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☑ Yes
If Yes, is it scheduled for replacement before 2025? ☐ No ☑ Yes
If No, explain why it should be considered out of sequence:
This project is for new infrastructure that will be added to the Repair & Replacement Schedule once it is completed.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
This project will expand the service levels of the piped water and sewer system to 21 homes plus 7 newly scoped homes and buildings that are currently using honey buckets or are on the truck haul system.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will expand services to up to 28 homes, but will reduce operating and maintenance costs of water and sewer truck haul currently provided for these services.

C. Indicate if this is a reoccurring upgrade or repair.
N/A.

D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes (If yes, include written verification) 
Explanation, if necessary: 

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☐ Yes  (If yes, include written verification) 
Explanation, if necessary: 

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? 
☐ No  ☒ Yes  If yes, indicate PAR name and date: Anaktuvuk Pass Water & Sewer Connections - Phase 1, 2013 
Attach a copy of an executive summary, if possible 

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
Design is completed on this project.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

Department Director Name: Scott K. Danner, Public Works Director

Department Director Signature: [Signature]  Date: 3.2.20

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

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Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW Water Storage Tank Upgrades
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: X00 09-149
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: AW Water Storage Tank Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This request is for upgrades to water storage tanks in Point Lay and Wainwright. The project design has been completed for the Point Lay tank.

In Point Lay, the East Tank repairs include the complete removal of the existing tank roof insulation system, recoating of the tank roof surface, and installation of a new metal clad insulation system. The coating system is worn, with several large areas of the tank roofing where the coatings have failed, and insulation is exposed. The upper layers of the roof have been saturated and are degrading. Re-coating of the interior of the tank will be part of this scope of work. Design is complete.

In Wainwright, partial repairs were completed on Tank #1 to stabilize the tank's foundation, which has undergone settlement and erosion. Recommended rehabilitation will allow continued use of the tank for up to 5 years while long-term alternatives are considered for implementation. Scope funded by 2019 PRC.

New Scope Wainwright Tanks 1 and 2 were found with severely corroded floor plates and are recommended to be removed from service until the plate can be replaced. This scope is a priority for the request. Loss of this storage capacity will require additional winter water hauls or risk domestic water and fire water supplies.

4. PROJECT LOCATION:
Areawide
**PROJECT NAME:** AW Water Storage Tank Upgrades  
**LOCATION:** Areawide

5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

2019 PRC appropriated $2,400,000 for Tank 1 foundation repairs  
2020 Requests  
Point Lay $5,754,640  
Wainwright Tanks 1 & T Floor $6,771,600  
Total Requested $12,526,240.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design/construction administration services</td>
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<td>$ 520,357</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction Costs - Engineer's Estimate</td>
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<td>$ 9,428,569</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin @10% Total</td>
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<td>$ 980,857</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>Contingency 10% for PIZ, 20% for AIN</td>
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<td>$ 1,596,457</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** $ 12,526,240  

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? [x] No [ ] Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**  
Is this a phased project or a follow-up to an existing CIP project? [ ] No [x] Yes  
If yes, indicate name and CIP project number: 59-149 AW Water Storage Tank Upgrades  
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost breakdown for how much will be spent at each site.  
Point Lay = $5,754,640  Wainwright = $6,771,600

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.  
Similar project upfunds are anticipated for approximately 5 years to upgrade the remaining NSB water storage tanks.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   Corrosion Protection replacement due in 2010 for Point Lay East Tank. Recent inspections on Wainwright tanks determined that the floor plate is thin and recommended removed from service until upgraded.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      This project will increase the service life of the existing NSB water storage assets. The existing tank in Point Lay has damaged insulation and coatings that will contribute towards premature corrosion-based failures in the tanks. The Wainwright tank’s floor plate require replacement to prevent structural failure of the tank and washout of the foundations.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project will decrease the NSB operating costs by improving tank insulation.

   C. Indicate if this is a reoccurring upgrade or repair.
      This project is proposed as phased and expected to be recurring for approximately 5 years to upgrade all water storage tanks in service.

   D. Detail outside funds being leveraged, if applicable.
      None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☐ No ☒ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☒ Yes (If yes, include written verification)
      Explanation, if necessary:
      Tank assessments by Taku Engineering describe critical need.

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: AW Water Storage Tank Upgrades
LOCATION: Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
Engineering consultants have reviewed these water storage tanks and determined that failure to repair components of the system will lead to greater damage to NSB assets if left unaddressed.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
This project will reduce the energy used to heat treated water and ultimately protect NSB assets from failure.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☒ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
[Links to attachments]

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-150  TYPE: Upfund
DATE SUBMITTED: 3/4/2020  AMOUNT REQUESTED: $909,000
REQUESTING ENTITY: Public Works Water & Sewer Utility  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: AW Water Plant SCADA Systems Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

At the village Water Treatment Plants, the water treatment process (equipment panels, nano-filters and micro-filter controls) and distribution controls are antiquated and lack remote access capability. Currently all metering, troubleshooting, emergency response and program maintenance has to be done on-site. Upgrading components will allow remote SCADA (Supervisory Control and Data Acquisition) access, i.e. remote access for W&S Division review or remote operator troubleshooting.

The project involves upgrading Water Treatment Plant controls to ethernet and remote access, to include installing ethernet processors into logic racks, power supplies, ethernet bridges, switches, wiring, computers and human machine interface (HMI) devices. Develop SCADA programming for each facilities’ water treatment control panels.

This is a phased project. Phase 1 Design was funded in 2016. This second phase requests construction funds for Wainwright and design and construction funds for Point Lay. The scope for these projects has increased to provide new PLC cabinets to keep the panels UL listing and code compliant.

4. PROJECT LOCATION:
Areawide
PROJECT NAME: AW Water Plant SCADA Systems Upgrades
LOCATION: Areawide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This request Total: $908,909

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design</td>
<td>AIN phase previously funded. PIZ request is</td>
<td>$ 176,281</td>
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<td>Other Costs (with description)</td>
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<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$ 908,909</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☒ Yes.
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☒ No ☒ Yes
If yes, indicate name and CIP project number: 59-150 AW Water Plant SCADA Systems Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   Point Lay: $608,909  Wainwright: $300,000

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
   The funding for the second phase of this project is for construction in Wainwright and design and construction in Point Lay.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ✗ No ☑ Yes
If Yes, is it scheduled for replacement before 2025? ☑ No ✗ Yes
If No, explain why it should be considered out of sequence:
This project would improve monitoring of critical water utility systems, provide improved inventory control and alarms for water loss. Data would become available remotely to support local operators during response to incidents.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Existing water treatment control panels, nano- and micro-filter control panels, and metering devices do not support ethernet access and thus do not support remote access (SCADA). Upgrading components will allow remote SCADA (Supervisory Control and Data Acquisition) access. The project will upgrade those devices, and configure HMI devices to access process instrumentation for remote monitoring in Barrow or by remote operator. Remote monitoring will improve response time for identifying leaks, thus reducing water loss.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will replace existing process hardware that will not affect O&M costs. New HMI devices in Point Lay and Barrow will require periodic maintenance and upgrade, with minor O&M costs. Should Wonderware be used for the HMI devices, annual licensing fees will be incurred by O&M.

C. Indicate if this is a reoccurring upgrade or repair.
This project is an upgrade.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ✗ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ✗ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ✗ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explanation, if necessary:
Accessing the water treatment processes remotely will save travel costs and man hours to troubleshoot plant issues and respond to plant emergencies during pumping season and annual distribution.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS Service Connections Upgrades
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: X36X32 09-152
TYPE: Upfund
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $1,789,000
REQUESTING ENTITY: Public Works Water & Sewer Utility
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

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Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BUS Service Connections Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
This is an up-funding request to cover construction, design, and administrative costs for upgraded water and sewer service connections to the Barrow Utilidor System. There are a number of services in the BUS that are reaching the end of their useful life. More than 40 services have required repeated and costly repairs. Upgrades to these service connections will reduce repeated O&M costs to maintain service. This up-funding request will cover construction, design and administrative costs to provide upgrades for the Barrow 21 Singles block above grade services and 10 additional above-ground services.

4. PROJECT LOCATION:
Utqiagvik

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – June 2019
PROJECT NAME: BUS Service Connections Upgrades
LOCATION: Utqiagvik

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

2019 PRC funding $647,000
This Request $1,788,500 - Total Request
$85,167 - Per service above-ground upgrades

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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</tr>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A&amp;E Design Services @ 10%</td>
<td></td>
<td>$123,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>Historic costs</td>
<td>$1,232,000</td>
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<td>Administration (NSB project management)</td>
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<td>Contingency (if not included in other line items) @20%</td>
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<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$1,788,500</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $ |

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
If yes, indicate name and CIP project number: 59-117 BUS Service Connections Upgrades
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

BRW 21 singles should be completed at $938,833, followed by 10 additional services at $851,667
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule? ☒ No □ Yes
If Yes, is it scheduled for replacement before 2025? □ No □ Yes
If No, explain why it should be considered out of sequence:
This will correct problematic services that are requiring emergency repairs and need replacing.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Up-funding this project is necessary in order to upgrade existing problematic water and sewer service connections that continually drain the O&M budget.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
Upgrading existing problematic water and sewer connections will reduce emergency repairs and reduced the O&M budget.

C. Indicate if this is a reoccurring upgrade or repair.
This is a recurring upgrade to the system.

D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No □ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No □ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No □ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  *(If yes, include written verification)*

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

□ No  □ Yes  *(If yes, include written verification)*

Explanation, if necessary:

Services with costly repeated repairs will be upgraded, significantly reducing the O&M budget spent on emergency repairs.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  □ No  □ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible.

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<td>![Signature]</td>
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</tbody>
</table>

**Planning Department Use Only**

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS SCADA Monitoring System
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: X3809-153
TYPE: Upfund
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $2,132,000
REQUESTING ENTITY: Public Works Water & Sewer Utility
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BUS SCADA Monitoring System
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The scope for this project request is to implement SCADA (Supervisory Control and Data Acquisition) systems in the Barrow Utility System (BUS). The SCADA would provide instant feedback to the BUS operators as to water distribution network flow rates, system pressure, and temperatures at key nodes of the system. System imbalances or decreasing temperatures would provide notice to operators of potential problems in the distribution system, and provide tools to troubleshoot those issues.

2016 funding was approved for the design. This request is for SCADA implementation once the design is complete. 100% Design Documents have been completed and awaiting construction funding.

4. PROJECT LOCATION:
Barrow
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

| Project cost | $2,305,689 |
| Funding 2016 PRC | $150,000 + $41,000 in BLT |
| This request | $2,131,689 |

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<tbody>
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<td>PAR</td>
<td>Recoverable Costs</td>
<td>$ 70,391</td>
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<td><strong>TOTAL</strong></td>
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</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes

If yes, indicate name and CIP project number: 59-153 BUS SCADA Monitoring System

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ✓ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No ✓ Yes
   If No, explain why it should be considered out of sequence:
   During February 2015, over 90 homes were without service at peak interruption (approximately 7% of Barrow customers). This was a significant event that might have been avoided if SCADA was in place.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   The BUS would benefit by having additional tools available for system monitoring, prediction of freeze-ups or locating leaks.
   The existing inspection methods are snapshots in time, that are compared daily. SCADA provides instant feedback and data can be compared over shorter periods of time, increasing operator response times, and reducing water system freeze ups.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   This project would provide a minor increase facilities, mainly in terms of new components and support constructions within existing utilidor and BUS office. However, by adding the monitoring equipment, response time for operations would increase, possibly stopping freeze up issues before they start.
   C. Indicate if this is a reoccurring upgrade or repair.
   This would be a one time project.
   D. Detail outside funds being leveraged, if applicable.
   None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ✓ No □ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No ✓ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No ✓ Yes (If yes, include written verification)
   Explanation, if necessary:
   The recent impacts to the water distribution system affected many residents. Their access to drinking water was interrupted, as well as means for basic sanitation.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ❌ No ✔ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
❌ No ✔ Yes (If yes, include written verification)
Explanation, if necessary:
This project would be a preventative measure to reduce operating costs relating to freeze-ups and leaks. Both response types involve many manhours and overtime to resolve. Responding to a water main in the process of freezing is less costly than responding to a frozen water main.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
❌ No ✔ Yes If yes, indicate PAR name and date: 2015-13 BUS SCADA Water Flow Monitoring
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Water Systems Major Repairs Project
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-155
TYPE: Upfund
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $3,000,000
REQUESTING ENTITY: Public Works Water & Sewer Utility
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Water Systems Major Repairs Project
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-fund request for the Areawide Water Systems Major Repairs Project. No specific amount is budgeted per village, rather an estimated amount of money is requested to implement proactive upgrades and improvements, and upgrades required to correct system failures.

This project funds the replacement of pipe, installation of trench plugs and insulation, the purchase of gravel, and the replacement of system components.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$3,000,000 is anticipated to be used this funding cycle.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering support, 10%</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Emergency Repairs and System Upgrades</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL $                  

TOTAL PROJECT COST (if different) $  

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☑ Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UFUND:  
Is this a phased project or a follow-up to an existing CIP project? ☑ No ☑ Yes  
If yes, indicate name and CIP project number: 59-127 Areawide Water Systems Major Repairs

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Areawide Water Systems Major Repairs Project  
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  ☐ Yes  
If Yes, is it scheduled for replacement before 2025? ☐ No  ☒ Yes  
If No, explain why it should be considered out of sequence:  
This project funds upgrades to components experiencing unexpected failure and which are not on the Repair and Replacement Schedule.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  
Between 2013 and 2017 there was a significant increase in the number of below-ground leaks in all eight villages. The summer of 2019 was also without president for leaks. Water is treated in summer months and stored for winter use, and water loss threatens the domestic and fire water supply. Below-ground leaks indicate significant changes that have taken place in the buried utility system. Failure to repair leaks destabilizes the supporting permafrost, further compromising the water system. Service interruptions impact the availability of potable water for basic human health and sanitation, as well as fire water protection to the community. 
Proactive upgrades and improvements to the system will create more stable and reliable water utilities in the villages, reducing the need for emergency repairs.  
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.  

C. Indicate if this is a reoccurring upgrade or repair.  
This is a recurring up-fund request.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☐ Yes  
(if yes, include written verification)  
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☐ Yes  
(if yes, include written verification)  
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☐ Yes  
(if yes, include written verification)  
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explanation, if necessary:
The project covers proactive upgrades and improvements that impact the public utility's ability to provide services. Without the upfunding, the NSB would incur greater costs in labor, equipment, and energy resources. Proactively implementing upgrades to the system will significantly reduce the costs spent on emergency repairs in the future.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: PIZ Drinking Water Source Development
LOCATION: Point Lay

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-158
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: PIZ Drinking Water Source Development
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

With the failure of the berm at the fresh water lake, a reliable drinking water source needs to be found. Extracting water from the thaw bulb under the lagoon could provide a year-round source.

This project request is for funds to drill test wells under the Kasegaluk Lagoon and analysis of the level of treatment required for drinking water production. In addition, the project will install approximately 1,300 linear feet of pipeline to connect the new water well into the treatment plant, and upgrade treatment equipment.

PRC 2019 funded Phase 1 $3,600,000

4. PROJECT LOCATION:
Point Lay
**PROJECT NAME:** PIZ Drinking Water Source Development  
**LOCATION:** Point Lay  

**5. DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

2019 PRC funded Phase 1 at $3,600,000  
This request is for new well house, pipeline, facility and process upgrades is approximately $2,157,194.

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>Project Report</td>
<td>$1,515,937</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td>$170,529</td>
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</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>15% Project Contingency</td>
<td>$281,373</td>
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</tr>
<tr>
<td>Other Costs (with description)</td>
<td>$</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$</td>
<td>$2,157,194</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td>$</td>
<td>$5,805,944</td>
<td></td>
</tr>
</tbody>
</table>

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  
- [ ] No  
- [x] Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UFUND:**  
Is this a phased project or a follow-up to an existing CIP project?  
- [ ] No  
- [x] Yes

If yes, indicate name and CIP project number:  
59-158 PIZ Drinking Water Source Development  

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 2 - Facility and process upgrades $2,157,194.
PROJECT NAME: PIZ Drinking Water Source Development
LOCATION: Point Lay

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ❋ Yes
   If Yes, is it scheduled for replacement before 2025? ❋ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   Since the draining of the fresh water lake in PIZ, a temporary water source has been used. A permanent water source needs to be developed.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   With the failure of the berm at the fresh water lake, a reliable drinking water source needs to be found. Extracting water from the thaw bulb under the lagoon could provide a year-round source.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   This will expand facilities by adding a well and Reverse Osmosis treatment. But, the project will also allow for other facilities to be taken off-line. Point Lay West Tank tank may be able to be taken off-line. The tank is need of repair and cost for repair work is estimated to be between $2,000,000 to $5,000,000 depending on a current condition of the interior paint systems.

   C. Indicate if this is a reoccurring upgrade or repair.
   Not reoccurring.

   D. Detail outside funds being leveraged, if applicable.
   None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ❋ Yes (If yes, include written verification)
   Explanation, if necessary:
   Breach of the fresh water lake necessitates finding another source for drinking water. The Kasegaluk River was used to complete the 2016 pumping and for 2017 pumping as an interim source.

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ❋ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ❋ Yes (If yes, include written verification)
   Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ✗ No    ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No    ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

One water tank can be taken out of service, which can reduce heating costs of the tank, and also reduce repair costs of the tank.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☐ No    ☑ Yes  If yes, indicate PAR name and date:  Point Lay Water Source Geotechnical Investigation at Kasegaluk Lagoon July 2017

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

The Project Report does not address the necessary process and facilities upgrades that are needed to make use of the new water source. Costs are included for the plant modifications.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Secondary Water Source
LOCATION: Areawide

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: Areawide Secondary Water Source

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Design and construction for secondary water sources in Kaktovik, Point Hope and Wainwright. Instead of constructing a new water storage tanks, a more sustainable and reliable water source can be developed for nearly year-round water production using a directionally-drilled well to access water under the ground or ice.

Wainwright's water storage capacity is less than what is needed. Early water production by truck haul is necessary every year to provide water between April and July each year at high per gallon water costs.

Point Hope's water source lake is slowly draining out and has shrunk. The longevity of the water source has yet to be determined. PRC 2019 funded Phase 1 preliminary well drilling, data acquisition and well drilling design/CA.

The first phase of this project will include data acquisition and well drilling. Subsequent phases will include design and construction of the well house and water line, and plant modification to include reverse osmosis treatment.

Benefits of this project include:
- increased reliability of potable water supply with potential for annual water supply.
- for Wainwright, elimination of $400,000 annual early water production cost
- decreased urgency and cost of water leak repairs
- option to decrease operational and future capital costs by minimizing water storage infrastructure

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

2019 PRC funded PHO Phase 1 $3,595,000
Total request this year for PHO: $4,172,369
Professional Services $425,700
NSB Admin $303,445
Construction $2,608,750 includes filtration upgrade
Contingency $834,474

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>PAR</td>
<td>Actual cost recovered 2019</td>
<td>$20,333</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Data Acquisition, Design, CA</td>
<td>PAR estimate</td>
<td>$3,029,700</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
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<td>PAR estimate with inflation</td>
<td>$12,155,750</td>
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<td>Administration (NSB project management)</td>
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<td>10% of professional services and construction</td>
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<td>Other Costs (with description)</td>
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<tr>
<td></td>
<td></td>
<td>TOTAL PROJECT COST (if different)</td>
<td>$24,095,358</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? □ No  □ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? □ No  □ Yes
If yes, indicate name and CIP project number: 59-159 Areawide Secondary Water Source

A. If this is a new request, indicate below whether this project could be phased and over how many years.
The project can be phased by village and drilling program and above grade constructions.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

| AIN $10,399,050 | KAK $6,004,800 | PHO $7,767,369 |

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

| PHO Phase 2, $4,172,369. AIN Phase 3 $3,631,000, Phase 4 $6,769,050. KAK Phase 5 $2,530,000, Phase 6 $3,474,800. |
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2025? ☐ No ☐ Yes
If No, explain why it should be considered out of sequence:
This project will result in significantly improved reliability of the water systems, reduce emergency repair costs, and eliminate emergency water haul costs.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
This project will provide access to new water sources for the communities. The water lake in Point Hope has shrunk and a new water source will be needed in coming years. Wainwright does not have enough water storage capacity to supply water to the community year-round, for the past four years, early water production has been necessary, costing $400k per year. This project will eliminate those costs and increase the reliability of the fresh water supply.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This will expand facilities and increase operating costs, but it will eliminate $400k for each avoided emergency water haul. By this spring, early water hauls will have cost $2 million in the past 5 years. The project will allow for existing water reservoirs to be taken offline thus minimizing the O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.
This is not a recurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☐ No  ☑ Yes  *(If yes, include written verification)*
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No  ☑ Yes  *(If yes, include written verification)*
Explanation, if necessary:

It will eliminate $400k for each avoided emergency water haul. By this spring, early water hauls will have cost $2 million in the past 5 years. Water tanks can also be removed from service, reducing O&M costs.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☐ No  ☑ Yes  If yes, indicate PAR name and date: 68041 Secondary Water Sources for Kaktovik, Point Hope, and Wainwright. Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
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<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
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</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AIN W&S System Major Upgrade
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-NEW-1 TYPE: New
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $495,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AIN W&S System Major Upgrade
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
village. Attach additional sheets if necessary.

The existing water and sewer system in Wainwright is damaged due to unstable permafrost. Water system
leaks have increased in frequency and repairs are costly. The water loss jeopardizes the drinking and fire
water reserves for Wainwright. Winter water hauls are now scheduled events. The repairs have become a
burden on the Operations budget, and are a routine source of community concerns elevated to the Mayors
Office and Assembly.

This request is a follow-up to the limited scope PAR 18-041 Alternatives to Direct Bury. Additional arctic
alternatives should be considered in this phase.

For this first phase, the W&S Utility needs recommendations and conceptual designs for alternate systems
the replace the existing direct bury water and sewer system, in order to continue providing the same level
of water and sewer service in the future. The project will hold NSB and community meetings to review
concerns, and present the recommendations after subsequent meetings. The alternative system will be
selected through the Phase 1 effort, with additional funding request for future phases based on the Phase 1
designs.

4. PROJECT LOCATION:

Wainwright
5. **DOLLAR $ AMOUNT OF THIS REQUEST**: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Phase 1 - $495,000

6. **PROJECT COST**: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<td></td>
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<td>Professional Services (Design, legal, other)</td>
<td>Engineering Services</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
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<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL** $ \\

**TOTAL PROJECT COST** (if different) $ \\

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UFPFUND**: 

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes

If yes, indicate name and CIP project number: Phase 1 funding is $500,000. Results of Phase 1 will determine future phase costs.

A. If this is a new request, indicate below whether this project could be phased and over how many years.

The project is proposed as phased. Anticipated duration would be based on funding for construction and may extend to 6 years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 1 funding is $500,000. Results of Phase 1 will determine future phase costs.
PROJECT NAME: AIN W&S System Major Upgrade
LOCATION: Wainwright

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☐ Yes
   If No, explain why it should be considered out of sequence:
   Ongoing discussions with Public Works, NSB Mayor and Assembly have produced this request. The request is the result of a need to provide residents of Wainwright a reliable water and sewer infrastructure.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       This project would replace damaged infrastructure. The reliability of the system will improve as well as reducing service interruptions. The existing system is stressed beyond design, and weak points show as water leaks. Permafrost instabilities have created undulations in the gravity sewer collection system that cause sewage solids to collect and block off the mains, which backs up into homes flooding floors, creating a health and human safety risk.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       Operating and Maintenance costs are expected to decrease as emergency leak repairs will be reduced. Energy costs are expected to increase over the current load. The net cost impact is to the NSB is a reduction of O&M costs.
    C. Indicate if this is a reoccurring upgrade or repair.
       This is a one time project.
    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☐ No ☐ Yes *(if yes, include written verification)*
   Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☒ Yes *(if yes, include written verification)*
   Explanation, if necessary:
   The Alternatives to Direct Bury PAR discusses the failures in Wainwright and recommends upgrades.

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☐ No ☒ Yes *(if yes, include written verification)*
   Explanation, if necessary:
   Access to potable water is documented as having a positive effect on human health. Similarly, removing wastewater from dwellings is documented as having positive effects. Further, eliminating the potential for wastewater backups will also improve public health.
PROJECT NAME: AIN W&S System Major Upgrade
LOCATION: Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explanations, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explanations, if necessary:
Completion of this project will reduce emergency repair expenditures in Wainwright.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date: 2013-13 AW Alternatives to Direct Bury.
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<th>Department Director Name:</th>
<th>Scott Danner, Public Works Director</th>
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<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW WTP Process Upgrades
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-NEW-2
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works Water & Sewer Utility

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AW WTP Process Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project requests funds to upgrade some of the processes at the water treatment plants in all seven villages. Specific upgrades are: installing mixers in the water storage reservoirs, re-configuring Point Hope's reservoir heating system, and installing a by-pass at all heat exchangers.

4. PROJECT LOCATION:
Areawide
PROJECT NAME: AW WTP Process Upgrades  
LOCATION: Areawide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Project request $901,981.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering 20%</td>
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<td>$ 113,886</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Equipment &amp; installation</td>
<td></td>
<td>$ 569,432</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
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<td>$ 68,331</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td>Other Costs (with description)</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$ 901,981</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? □ No □ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

This project could be phased.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project could be phased.

B. If this request is for an areawide project, provide an estimated cost breakdown for how much will be spent at each site.

Project costs will be $119,971 per village, with Point Hope’s costs at $182,157.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 1 funding for Atqasuk, Point Hope and Wainwright at $422,099; Phase 2 for Anaktuvuk Pass, Kaktovik Nuiqsut and Point Lay at $479,882.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2025? ☐ No ☒ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
MIXERS will improve heating efficiencies in the water reservoirs, help keep chlorine levels evenly distributed and improve removal of deleterious contaminants. Piping re-configuration will install a bypass to the heat exchangers to allow work on the equipment without shutting down the distribution loops. Point Hope’s heating loop pump re-configuration will place the heating loop circulator pumps in a more optimal operating position; this will eliminate air-locking of pumps that interrupt the reservoir heating cycles. This affects reservoirs T-3 and T-4.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will not expand facilities.

C. Indicate if this is a reoccurring upgrade or repair.
This is a one time project.

D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☒ Yes (If yes, include written verification)

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☐ No ☒ Yes (If yes, include written verification)
Elevated Total Trihalomethanes (TTHMs) have been measured during water transfers between reservoirs. Water mixers will volatilize (help remove) the TTHMs from the water.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<td>Date: 3.2.20</td>
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</table>

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Sewage Tanks
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: SE 10-107 TYPE: Upfund
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $2,640,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Sewage Tanks
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

In the village of Point Lay, the buried sewer collection system is failing but becoming cost prohibitive to repair. Sewer holding tanks will provide basic sanitation services to the community. This project will install approximately 20 sewer holding tanks on an emergency basis and should complete the remaining residential services.

The project is Areawide and can address replacement of an existing sewer service where it has failed with a new holding tank.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This project request is for $2,640,000 to install 20 sewer holding tanks on an emergency basis due to the failing sewer collection system.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering design 8%</td>
<td></td>
<td>$160,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Sewer Holding Tank acquisition and installation</td>
<td>From 1st phase installation costs</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$200,000</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>Contingency 10%</td>
<td></td>
<td>$200,000</td>
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<tr>
<td>Other Costs (with description)</td>
<td>4% Escalation for 2020</td>
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<td>$80,000</td>
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<tr>
<td>TOTAL</td>
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<td>$2,640,000</td>
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</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  □ No  □ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  □ No  □ Yes

If yes, indicate name and CIP project number: 60-107 Areawide Sewage Tanks

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       The failing sewer mains and laterals in Point Lay pose a threat to the health and safety of the community. Non-functioning sewer lines cause sewage backups into homes with increased health risks and failed systems force residents to go back to honey bucket use. Repair of the buried pipe is becoming cost prohibitive. Providing sewer holding tanks for each home is a less expensive alternative while still providing basic sanitation services.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       This project will eliminate operating and maintenance costs of the existing piped sewer system but increase the truck haul system costs.
    C. Indicate if this is a reoccurring upgrade or repair.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☐ No ☒ Yes (If yes, include written verification)
       Explanation, if necessary:
       Severe subsidence in portions of the village is causing failure of the piped sewer system.
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☑ Yes (If yes, include written verification)
       Explanation, if necessary:
       From the 18-041 Areawide Alternatives to Direct Bury Water & Sewer PAR: A long term solution is needed to stabilize the water and sewer system to account for village conditions.
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☐ No ☒ Yes (If yes, include written verification)
       Explanation, if necessary:
       From the 18-041 Areawide Alternatives to Direct Bury Water & Sewer PAR: The water and wastewater systems in the NSB have exhibited reliability issues, most notably on the gravity collection systems.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)  
Explanation, if necessary:  

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No  ☒ Yes  (If yes, include written verification)  
Explanation, if necessary:  
 Though it will increase operating costs for sewage tank hauling, this project will eliminate costly emergency repairs to the buried sewer collection system.

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?  
☐ No  ☒ Yes  If yes, indicate PAR name and date: 18-041 Areawide Alternatives to Direct Bury Water & Sewer Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:  

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**Planning Department Use Only**

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Outfall Line Repair
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-118
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works-Water & Sewer Utility

AMOUNT REQUESTED: $1,247,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works-Water & Sewer Utility
2. PROJECT NAME: Areawide Outfall Line Repair
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This Project Upfund Request is to add the Kaktovik treated effluent outfall and Nuiqsut treated effluent outfall piping to the existing project code for repair.

Kaktovik - The Treated Effluent Outfall is located on a bluff overlooking the Kaktovik Lagoon. The bluff has eroded since installation. The piles closest to the water are not supported in the bluff as designed but sit in the lagoon now. The pile have also experienced ice damage that carried through the structure, damaging pipe supports on the overhead beam. Metal is twisted and it appears that a bolt joint has partially sheared apart.

Nuiqsut - a portion of the outfall line has collapsed, requiring repair to the line. Several support posts and the end support structure need to be replaced to prevent another collapse.

4. PROJECT LOCATION:

Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project Upfund request is for $1,246,400 to design and complete the construction of the Kaktovik and Nuiqsut Outfalls repairs.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
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<td>$</td>
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</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design (15%)</td>
<td>Estimate</td>
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<td>Construction / Acquisition (anticipated costs)</td>
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<td>$92,000</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>20%</td>
<td></td>
<td>$202,400</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>4% Escalation for 2020</td>
<td></td>
<td>$32,000</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$1,246,400</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $  

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? □ No □ Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:  
Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes  
If yes, indicate name and CIP project number: 60-118 Areawide Outfall Repair  
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
Kaktovik: $984,446 Nuiqsut: $261,954

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:

   The Kaktovik outfall has been damaged by ice loads. The structure is visibly damaged with warped and sheared steel members. The Nuiqsut outfall piping has separated at joints and the heat trace is not working as designed. The condition will worsen as the pipe supports continue to settle into the tundra.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       A fully functioning outfall line is a necessary component of the wastewater treatment process. Freeze ups require maintenance time to thaw the line and ensure its continuous functioning.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       This project will not expand facility.

    C. Indicate if this is a reoccurring upgrade or repair.
       This is not a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.
       N/A

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☒ Yes (If yes, include written verification)
       Explanation, if necessary:
       However, review by a structural engineer will deem this structure failed and in need of replacement.

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes  (If yes, include written verification)  
Explanation, if necessary:  
Replacing the discharge platform, replacing the damaged pipe, and restoring the heat trace will prevent maintenance needed to keep the outfalls open.

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?  □ No  □ Yes  If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.
Photos

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-119 TYPE: Upfund
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $2,486,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AW Heat Trace Panel Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Heat trace service panels and service control panels are reaching the end of their service life in the villages. These panels and associated connections will need to be replaced. Because of increasingly deteriorating condition of the electrical service panels in Kaktovik, 113 panels for all homes in Kaktovik need to be replaced.

Existing panels are severely corroded, have holes, or do not latch. All of these create an unsafe condition for operators and residents alike. Internal components are also corroded which reduces the reliability of the service.

In 2016 and 2018, funds were authorized for homes in Point Hope. A new design is being used that uses corrosion resistance materials and houses parts behind clear covers to protect them from the elements.

4. PROJECT LOCATION:
Areawide
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This request is for $2,486,090 for complete Kaktovik.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A&amp;E Design Services @8%</td>
<td></td>
<td>$144,640</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>Electrical contractor</td>
<td>$1,808,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$195,264</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>15%</td>
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<td>$322,186</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL** $2,486,090

**TOTAL PROJECT COST (if different)** $

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** [ ] No [ ] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? [ ] No [ ] Yes

If yes, indicate name and CIP project number: 60-119 Point Hope Heat Trace Panel Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project might be phased over 2 years, but service interruptions might occur with greater frequency prior to the second year’s work commencing.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

This is a project request to begin repairs and replacement of service control panels. Kaktovik is the current priority now that PHO is complete. Other villages to follow in future years.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

The project could be split into two years year 1 - $1,243,045 and year 2 - $1,243,045
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
If Yes, is it scheduled for replacement before 2025? □ No □ Yes
If No, explain why it should be considered out of sequence:

---

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Boxes have reached their useful life expectancy in the existing environment. Corroded panels potentially expose residents and North Slope personnel to 110V and 230V wiring that is unprotected. In addition, the panels are corroded shut and require hammering to open, which further damages the panels.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
No expansion. Operating and maintenance costs will be reduced due to reduced maintenance and service interruptions.

C. Indicate if this is a reoccurring upgrade or repair.

---

D. Detail outside funds being leveraged, if applicable.

---

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?
☐ No ☒ Yes  If yes, indicate PAR name and date: Similar to Point Hope Heat Trace Panel Upgrades; October, 2017
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<td>Signature:</td>
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<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS Pump Station 5 Upgrades
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-120
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $126,000
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: BUS Pump Station 5 Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request is to upgrade Pump Station 5 on Simmons Hill to increase the capacity of the pump station as well as upgrading the wet well. The Top of the World hotel has increased the wastewater demand of Pump Station 5 significantly. The pump station is considered at capacity by the operators, BUECI.

The wet well in the pump station is deteriorating and severely corroded. Due to the increased load from the hotel, the wet well can not be taken out of service for inspected or maintenance as previously performed by BUECI.

The proposed scope is replacement of Pump Station 5 with a facility similar to Pump Station 9 on Sakeagak Street.

Upsizing the lift station will allow for recent developments on Paneatak Road to eliminate the planned septic tanks in favor of buried collection piping.

4. PROJECT LOCATION:
Barrow
PROJECT NAME: BUS Pump Station 5 Upgrades
LOCATION: Barrow

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

| Phase 1 | $303,000 Design Phase funded in 2017.
| Phase 2 | $2,227,000 Construction Phase funded in 2019.
This request is for the $126,009. This request for construction funding.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A&amp;E Design Services @8%</td>
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<td>$327,240</td>
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<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>Based on Pump Station 9 costs</td>
<td>$1,490,129</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>Contingency 25%</td>
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<td>CIPM Administration 10%</td>
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<tr>
<td>Other Costs (with description)</td>
<td>5% Escalation for 2020</td>
<td></td>
<td>$74,506</td>
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</table>

| TOTAL | $2,656,009 |

TOTAL PROJECT COST (if different) $ 

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No   ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No   ☒ Yes
If yes, indicate name and CIP project number: 59-142 BUS New W/S Service Connections

A. If this is a new request, indicate below whether this project could be phased and over how many years.
This project is phased as design funds have already been posted to 60-120. The construction funding estimate is based on the BUS Pump Station 9 construction estimate.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
Phase 2: $2,353,009 with 2,227,000 funded. Remaining funds needed $126,009
PROJECT NAME: BUS Pump Station 5 Upgrades
LOCATION: Barrow

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ❌ No ✔ Yes
   If Yes, is it scheduled for replacement before 2025? ❌ No ✔ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       Funding this project will perform much needed upgrades to the function Pump Station 5. Upgrading the lift station will size the facility for the current and future demands as well as use materials that are less maintenance intensive.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       Power consumption may increase due to the potential for increased pump motor sizing. Maintenance on the facility would be reduced however.
    C. Indicate if this is a reoccurring upgrade or repair.
       This is a one time funding request.
    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ❌ No ✔ Yes (If yes, include written verification)
       Explanation, if necessary:
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ❌ No ✔ Yes (If yes, include written verification)
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ❌ No ✔ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:
No risk assessment has been conducted; however this facility could be considered vital to the BUS function. It services a small area with a high occupancy density due to the hotel and two restaurants in the area. Impacts to the Pump Station 5 function will have negative impacts to the Utqiagvik economy.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:
The facility improvements are expected to be near net zero for operating budget impacts.

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?
☒ No  ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW WWTP Upgrades
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-122
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $954,000
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AW WWTP Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
This request is to upgrade process, process control and process monitoring systems Areawide. Point Hope, Wainwright and Atqasuk plants are at or near their hydraulic limit. Point Hope and Wainwright have received NOV’s and Atqasuk cannot add new service connections without a wastewater plant upgrade. All plants have obsolete control and monitoring systems that are past their useful life and need replacement. All plants would benefit from standardized process upgrades to improve compliance and effluent safety.

Improvements have been recommended for:
- Equalization upgrades - providing automatic controls for effective flow equalization.
- Fixed or moving bioreactor media upgrades to increase biomass and BOD reduction (all plants except Kaktovik)
- Secondary Clarifier upgrades and disc filter pilot test - upgrade the scum removal, wasting, and recycle equipment and controls to reduce BOD and TSS violations.
- Disc Filter Pilot Test - install a disc filter for effluent solids removal to reduce risk of TSS violations.
- Disinfection upgrades - install in-line ultraviolet (UV) disinfection and controls to reduce fecal coliform violations and chemical handling requirements. (all plants)
- WAS/RAS metting -add pumps and meters on the WAS/RAS line to improve process control.
- Replace alarm/monitoring systems with ethernet-compatible & programmable PLC’s (all plants)

4. PROJECT LOCATION:
Areawide
PROJECT NAME: AW WWTP Upgrades  
LOCATION: Areawide  

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This request is for Atqasuk funding to complete at $953,700

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design, Permitting &amp; CA</td>
<td>$144,500</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Recommended Upgrades</td>
<td>$578,000</td>
<td></td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td>$72,250</td>
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<td>20%</td>
<td>$158,950</td>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>$953,700</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $7,898,692

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☑ Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UFPFUND:

| Is this a phased project or a follow-up to an existing CIP project? | ☑ Yes | ☒ No |
| If yes, indicate name and CIP project number: 60-122 AR WWTP Upgrades |

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

PHO (funded) $1,266,000, ATQ $953,700, AIN $1,475,116, NUI $1,569,943, PIZ $1,026,077

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

2020 ATQ $953,700, 2021 AIN $1,475,116, 2022 NUI $1,569,943, 2023 PIZ $1,026,077
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Upgrades to the treatment plant processes will reduce discharge permit violations and add in place capacity without plant expansion.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      The project will not expand facilities, but additional equipment/process may increase O&M

   C. Indicate if this is a reoccurring upgrade or repair.
      This is a reoccurring project until all sites are upgraded.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
      Explanation, if necessary:
      ADEC Discharge Permit violations.

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
      Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☐ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?
☐ No  ☐ Yes  If yes, indicate PAR name and date: 2015-04 Point Hope Wastewater Treatment Plant Expansion
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
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<th>Requestor Name and Title:</th>
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<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

Department Director Name: Scott K. Danner, Public Works Director

Department Director Signature: [Signature]
Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Sewer Systems Major Repairs Project
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 300-123-10-123 TYPE: Upfund
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $1,500,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
   Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Sewer Systems Major Repairs Project
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
   village. Attach additional sheets if necessary.

This is an up-fund request for the Areawide Sewer Systems Major Repairs Project. No specific amount is
budgeted per village, rather an estimated amount of money is requested to implement proactive upgrades
and improvements, and upgrades required to correct system failures.

This project funds the replacement of pipe, installation of trench plugs and insulation, the purchase of
gravel, and the replacement of system components.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This request is for $1,500,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering Support, 10%</td>
<td>$</td>
<td>135,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>$</td>
<td>1,215,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration, 10%</td>
<td>$</td>
<td>150,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** $ 1,500,000

TOTAL PROJECT COST (if different) $

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? [ ] No  [X] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? [ ] No  [X] Yes

If yes, indicate name and CIP project number. 60-106 Areawide Sewer Systems Major Repairs Project

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

AKP $83,000, ATQ $83,000, UTQ $750,000, KAK $83,000, PHO $167,000, PIZ $167,000, AIN $167,000

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   This project funds upgrades to components experiencing unexpected failure and which are not on the Repair
   and Replacement Schedule.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation
       of the current deficiencies.
       A severe threat to public health and the environment exists when sewage components fail, causing backups into homes and spills onto
       the ground. Below-ground sewer breaks and leaks indicate significant changes that have taken place in the buried utility system. Failure
       to repair leaks destabilizes the supporting permafrost, further compromising the sewage system. Proactive upgrades and improvements
       to the system will create more stable and reliable sewer utilities in the villages, reducing the need for costly emergency repairs.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and
       maintenance costs.
       This is a recurring up-fund request.
    C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for
       a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer
       or architect? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent,
       verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: Areawide Sewer Systems Major Repairs Project
LOCATION: Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

The project covers proactive upgrades and improvements that impact the public utility’s ability to provide services. Without the upfund, the NSB would incur greater costs in labor, equipment, and energy resources. Proactively implementing upgrades to the system will significantly reduce the costs spent on emergency repairs in the future.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No  □ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>
PROJECT NAME: Barrow Utilidor System Repairs & Upgrades
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 6X3X5 10-125 TYPE: Upfund
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $1,154,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Barrow Utilidor System Repairs & Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project was created to fund the cost of non-routine major repairs and upgrades to the existing Barrow Utilidor System (BUS). Major repairs commonly consist of upgrading water mains and laterals in locations a leak has occurred as well as:
- New Inline Heat trace ~3,000 LF
- Replacement Rodder/Vactor truck
- Transition Building Upgrades
- Bus Diesel Tank Upgrade
- Pump Station 1 and 2 Upgrades

These costs are a recurring aspect of maintaining the useful life of the BUS System.

4. PROJECT LOCATION:
Utqiagvik
5. **DOLLAR $ AMOUNT OF THIS REQUEST**: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

- Project Request Amount: $1,153,680
- Inline Heat trace $24,000
- Replacement Rodder/Vactor $500,000
- Transition Building $350,000
- BUS Diesel Tank $180,000
- NSB Admin $105,400
- Contingency $231,880

6. **PROJECT COST**: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Vendor quotes, engineer estimates, historic costs</td>
<td>$1,054,000</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td>$105,400</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>20%</td>
<td>$231,880</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>$1,391,280</td>
<td></td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  
   - No
   - Yes
   
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

   - Is this a phased project or a follow-up to an existing CIP project?  
     - No
     - Yes

   If yes, indicate name and CIP project number: 59-121 Barrow Utilidor System Repairs & Upgrades

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost breakdown for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  X Yes
   If Yes, is it scheduled for replacement before 2025?  □ No  X Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       In order to maintain existing level of service to all BUS customers, ongoing major repairs and upgrades are required. This is necessary to maintain the large capital investment the Borough has made in building and expanding the BUS system. Replacing large motors, pumps and other equipment on a regular preventative maintenance schedule reduces the cost and time to the operators, versus making the same type of repairs on an emergency basis.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
    C. Indicate if this is a reoccurring upgrade or repair.
       This is a recurring upgrade to maintain the Barrow Utilidor System.
    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  X No  □ Yes (If yes, include written verification)
       Explanation, if necessary:
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  X No  □ Yes (If yes, include written verification)
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  X No  □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  
☑ No  ☑ Yes  (If yes, include written verification)  
Explanation, if necessary:  

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☑ No  ☑ Yes  (If yes, include written verification)  
Explanation, if necessary:  
Performing preventative maintenance on the BUS equipment and structures will reduce emergency funding requests.

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?  
☑ No  ☑ Yes  If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:  

<table>
<thead>
<tr>
<th>Requestor Name and Title</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<tr>
<td>Signature</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>
NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: xx0326 10-126TYPE: Upfund
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $400,000
REQUESTING ENTITY: Public Works Water & Sewer Utility
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Water & Sewer Equipment
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

This project will provide for equipment to maintain the Village Water & Sewer Systems. This includes areawide vacuum station pumps, wastewater plant lift station pumps, service barrel pumps and major components, raw water pump gensets, microfilter skid major components, water treatment process cleaning filters, and treatment plant process air compressors.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Anaktuvuk Pass, Atqasuk, Kaktovik, Nuiqsut, Point Hope, Point Lay, and Wainwright.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

This request $400,000

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☑ No ☐ Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☐ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPGRADE:

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☐ No ☑ Yes

If Yes, is it scheduled for replacement before 2025? ☐ No ☑ Yes

If No, explain why it should be considered out of sequence:

This project will be used to replace equipment that fails in advance of the NSB Repair and Replacement Schedule.
PROJECT NAME: Areawide Water & Sewer Equipment  
LOCATION: Areawide

10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies. 

The equipment is needed for the safe operation and maintenance of the Village Water & Sewer System. This project will provide for major replacement components, and equipment required to maintain the W/S systems area-wide. Updated equipment will result in reduced O & M costs.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will not expand facilities. New replacement equipment should reduce O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ❌ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ❌ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ❌ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ❌ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title: Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature: Date:</td>
</tr>
<tr>
<td>Department Director Name: Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature: Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Water & Sewer Connections
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-NEW-1
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: Areawide Water & Sewer Connections

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request is for the installation of new water and sewer service connections. This project would fund piping connections to homes in villages that already have modern sanitation facilities in home. This project would also be used to put homes on piped system that are currently served by holding tanks.

This request seeks funding for Point Hope, which has 14 residences, the Senior Center and New NSB Itinerate Camp that are requesting service.

Projects 60-122 will be needed prior to moving forward with new connections in Point Hope.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This Request is for Point Hope
Design $267,120
NSB Admin $26,7120  Contingency $44,074
Total this request $337,906

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design &amp; Construction Administration</td>
<td>12% of Construction estimate</td>
<td>$267,120</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>CNST/PM/Profit/OH</td>
<td>Based on historic costs</td>
<td>$2,226,000</td>
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<td>Administration (NSB project management)</td>
<td>CIPM Admin @ 10%</td>
<td>Historical</td>
<td>$249,312</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>15% of Construction</td>
<td>Engineer estimate</td>
<td>$411,365</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$3,153,797</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $  

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  ☒ No  ☑ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  ☒ No  ☑ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
      This project can be phased over two or three years.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
      This is the start of an areawide request. Future costs will be dependant upon new home construction areawide and applications for service.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      PHO Phz 1 337,906, Phz 2 1,726,725, Phz 3 1,089,165
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:
   This project is for the design and construction of new infrastructure that will be added to the repair and replacement schedule upon completion of construction.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   Adding services to the Point Hope water and sewer system will meet growth needs and improve basic quality of health for the community of Point Hope. It will also reduce the reliance on the percolation pit at the landfill and reduce tank truck operations costs.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   Upgrades include installing 15 new water and sewer service connections. The plant expansion and new connections will increase both operating and maintenance costs, but will reduce the costs of truck haul service.
   C. Indicate if this is a reoccurring upgrade or repair.
   Yes, this is an Areawide request that is reoccurring as new homes are added to the service request list.
   D. Detail outside funds being leveraged, if applicable.
      None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (if yes, include written verification)
      Explanation, if necessary:
   
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (if yes, include written verification)
      Explanation, if necessary:
   
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (if yes, include written verification)
      Explanation, if necessary:
      However, this project does improve sanitation for households. Piped water service is documented as directly improving human health.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?
☐ No  ☒ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott Danner, Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Seepex Pumps & RAS metering
LOCATION: Areawide

**NSB PLANNING DEPARTMENT USE ONLY**
TEMPORARY/CIP PROJECT NUMBER: 10-NEW-2
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Work Water & Sewer

**AMOUNT REQUESTED:** $1,000,000
**AMOUNT RECOMMENDED:**

---

**NORTH SLOPE BOROUGH**
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

---

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

---

1. **REQUESTING ENTITY:** Public Work Water & Sewer
2. **PROJECT NAME:** Areawide Seepex Pumps & RAS metering
3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   To improve the quality of the areawide wastewater treatment process, it is necessary to up-size the seepex pumps and RAS pump metering system. The village of Kaktovik has already shown significant plant performance improvement. The plan of action for the remaining 6 villages would mirror the steps taken in Kaktovik.

---

4. **PROJECT LOCATION:**
   Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? □ No □ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  No  Yes
   If Yes, is it scheduled for replacement before 2025?  No  Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       This project will improve the quality of the effluent from each of the remaining 6 village wastewater plants

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       N/A

    C. Indicate if this is a reoccurring upgrade or repair.
       This is not a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.
       N/A

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: Areawide Seepex Pumps & RAS metering
LOCATION: Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
   ☒ No  ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
   None

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<tr>
<td></td>
<td></td>
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<tr>
<td>Signature:</td>
<td>Date:</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide lift Station Control Upgrades
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-NEW-3  TYPE: New
DATE SUBMITTED: 3/4/2020  AMOUNT REQUESTED: $1,000,000
REQUESTING ENTITY: Public Work Water & Sewer  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Work Water & Sewer
2. PROJECT NAME: Areawide lift Station Control Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

In the villages of Wainwright and Point Lay, three lift station junction boxes are frequently submerged in water. This project will remove potential hazards associated with electrical components being submerged 15 feet below ground when maintenance is needed to restore/repair lift station pumps. The controls should be lifted above ground.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Estimate to be prepared.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
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</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
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<td>$</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
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<tr>
<td>Administration (NSB project management)</td>
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<td>$</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL $ $ 
TOTAL PROJECT COST (if different) $ 

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ❌ No ✔ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ❌ No ✔ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Areawide lift Station Control Upgrades
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  ☐ Yes
   If Yes, is it scheduled for replacement before 2025?  ☒ No  ☒ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       To reduce chance of lift station pump failures due to electrical components being submerged. In addition this will improve accessibility for maintenance on lift station pumps.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.
       This is not a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.
       N/A

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  
☑️ No  □ Yes  (If yes, include written verification)  
Explanations, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☑️ No  □ Yes  (If yes, include written verification)  
Explanations, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?  
☑️ No  □ Yes  If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.  
None

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name: Scott K. Danner, Public Works Director</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature: [Signature]</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Wastewater Treatment Plant Process Upgrades
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-NEW-4  TYPE: New
DATE SUBMITTED: 3/4/2020  AMOUNT REQUESTED: $1,745,000
REQUESTING ENTITY: Public Works Water & Sewer Utility  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
   Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: Wainwright Wastewater Treatment Plant Process Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
   village. Attach additional sheets if necessary.
These project funds will be used to increase the Wainwright Wastewater Treatment Plant’s permitted
capacity to accommodate wastewater flows for the projected growth of the village for the next 20 years.
This includes the addition of new service connections for existing homes and facilities.

4. PROJECT LOCATION:
Wainwright
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Project Request: $1,744,859

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A/E services</td>
<td>10% of construction</td>
<td>$120,335</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>IFAS installation</td>
<td>scaled from KAK WWTP upgrades</td>
<td>$1,203,351</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM</td>
<td>10% of construction</td>
<td>$120,335</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>CA</td>
<td>20% of construction</td>
<td>$240,670</td>
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<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$60,168</td>
</tr>
</tbody>
</table>

TOTAL $1,744,859

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? [ ] No [ ] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? [ ] No [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project should not be phased.

B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
   □ Yes □ No  
   If Yes, is it scheduled for replacement before 2025?  □ No □ Yes
   □ Yes □ No  
   If No, explain why it should be considered out of sequence:
   The project is in response to village growth and increased per capita utility usage. It is not in response to facility aging.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      The Wainwright Wastewater Treatment Plant has a permitted effluent discharge capacity of 28,000 gpd (gallons per day). The plant’s average daily discharge volume is equal to 67% of this, and the discharge permit is exceeded about once a month. The addition of roughly 35 new services or an influx of people in response to oil exploration and development may push the average daily discharge beyond its permitted limit.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project will expand the wastewater treatment facility, and it will entail increased operating costs.

   C. Indicate if this is a reoccurring upgrade or repair.
      Not a recurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
      Explanation, if necessary:
      Any substantial growth of Wainwright including a temporary surge of people, could overload the wastewater plant, and force it to discharge inadequately treated effluent into the ocean.
PROJECT NAME: Wainwright Wastewater Treatment Plant Process Upgrades
LOCATION: Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanations, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes (If yes, include written verification)
Explanations, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☐ No ☒ Yes If yes, indicate PAR name and date: WWTP Process Upgrades for Wainwright and Kaktovik; April, 2013
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-NEW-5 TYPE: New
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $1,558,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility

2. PROJECT NAME: Areawide Vacuum Station Pump Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project will install new energy-efficient, low-maintenance vacuum station pumps in Atqasuk, Kaktovik and Nuiqsut. Point Hope’s vacuum pumps were previously funded.

The existing vacuum pumps are maintenance intensive and self-destruct when not properly attended. The pumps generally have had a high failure rate in village and require frequent rebuilds/replacement. There are also two sizes of the existing pumps on slope, causing part inventory difficulties.

The nature of the existing pump design is inefficient as it uses friction to create sealed surfaces. The proposed pump does not use the friction pump design and is approximately 20% more efficient per volume pumped. This means that the pump components do not wear as fast, and less power is consumed. The proposed pump can also be standard across slope, which reduces inventory problems and increases our emergency response capacity.

The proposed project includes plumbing and electrical upgrades to complete the pump installation.

Annual anticipated cost savings per site is up to $40,000

4. PROJECT LOCATION:

Areawide
PROJECT NAME: Areawide Vacuum Station Pump Upgrades
LOCATION: Areawide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project Request - $1,558,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design/CA</td>
<td>10%</td>
<td>$112,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Pump/Motor purchases and installation</td>
<td>Engineering Estimate: ATQ (2 pumps); KAK (2 pumps); NUI (4 pumps)</td>
<td>$1,120,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM @10%</td>
<td></td>
<td>$123,000</td>
</tr>
<tr>
<td>Contingency (If not included in other line items)</td>
<td>@15%</td>
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<td>$203,000</td>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
<td>$</td>
</tr>
</tbody>
</table>

Total $1,558,000

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☐ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an area wide project, provide an estimated cost breakdown for how much will be spent at each site.
   Atqasuk: $475,746  Kaktovik: $475,746  Nuiqsut: $606,507

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Areawide Vacuum Station Pump Upgrades
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No   ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☒ No   ☐ Yes
   If No, explain why it should be considered out of sequence:
   New 'Mink' vacuum pumps are energy-efficient and have no oil, therefore require much less on-going
   maintenance.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation
       of the current deficiencies.
       New 'Mink' vacuum pumps are energy-efficient and have no oil, therefore require much less on-going
       maintenance.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and
       maintenance costs.
       The pumps will reduce energy consumption are less maintenance to operate.

    C. Indicate if this is a reoccurring upgrade or repair.
       This is a reoccurring request until all three sites are upgraded.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for
       a plan of action, relating to a Borough service or facility? ☒ No   ☐ Yes  (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer
       or architect? ☒ No   ☐ Yes  (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent,
       verifiable and documented threat to public health exists? ☒ No   ☐ Yes  (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

New pumps are energy-efficient and low-maintenance. Anticipated annual cost savings per village is $40,000.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name</th>
<th>Scott K. Danner, Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature</td>
<td>[Signature] Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: CIP 63-222 Area Wide Waste Heat Recovery
LOCATION:

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 13-222
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works, Power Generation and Distribution

AMOUNT REQUESTED: $2,313,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works, Power Generation and Distribution

2. PROJECT NAME: CIP 63-222 Area Wide Waste Heat Recovery

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
   • A properly functioning waste heat system will extend power plant equipment life and help to comply with emissions rules. The generators will operate at design temperatures, where long life, reduced maintenance, and greater efficiency (more power out for a given amount of fuel burned) can be expected. These all represent cost savings and push the NSB toward more effective, efficient operations.
   • Effective use of Waste Heat can be a source of personal (for the operators and workers), community, and Area Wide pride. Nobody wants to have a dilapidated, corroded, system with insulation falling off and icicles of solidified glycol hanging off of piping and equipment. I know that the school would be extremely thankful for waste heat and a reduced fuel bill.
   • Based on my PW experience, time is of the essence to make the generators run more efficiently, provided needed heat to users, and to clearly stay under emissions limits.

4. PROJECT LOCATION:
   Nuiqsut and Kaktovik
PROJECT NAME: CIP 63-222 Area Wide Waste Heat Recovery
LOCATION:

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$2,312,408

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Nuqput WH Design Shortfall (existing contract w/ Umiaq) and required CA services for both BTI/NUI</td>
<td>BTI 95% and NUI Preliminary Estimate by Umiaq - (Existing design contract = $299,932)</td>
<td>$690,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>BTI Construction $3,782,040 NUI Construction $1,239,568</td>
<td>BTI 95% and NUI Preliminary Estimate</td>
<td>$5,021,608</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>BTI $567,306 NUI $185,935</td>
<td>Admin cost estimated at 15% of project construction cost</td>
<td>$753,241</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>15% contingency for materials cost escalation (NUI construction 2011) and increasing labor and shipping costs - both BTI/NUI construction and professional services</td>
<td>Historical and best practices for construction estimation</td>
<td>$856,741</td>
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<tr>
<td>Other Costs (with description)</td>
<td>Existing funds in CIP#63622</td>
<td></td>
<td>$-5,009,182</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$2,312,408</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2019? □ No □ Yes
   If yes, please identify how much will be needed prior to November 2019 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: CIP 63-222 Area Wide Waste Heat Recovery
LOCATION:

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2024? □ No □ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       The above-ground insulation is indeed soaked. There is severe corrosion at the washeteria equipment and general lack of control of heat distribution due to lack of control at waste heat load
       tanks. The controls at the power plant are basically completely dysfunctional and can only be manipulated manually. One of the circulation pumps was not working when I was on site.
       These basic problems and more are described in the Preliminary Analysis, so I see that the situation is basically the same as when I last was on site.
       PLC-based controls are more expensive, but this cost will be saved in once successful season of mitigating heat savings at the school and the endless trips to the field to try to make
       something that is completely nonfunctional work again. Success in this project will be a huge step forward for the NSB, in operating as efficiently as possible and will be a large morale booster,
       particularly at the Power Plant and at the School. I spent some time with the School Maintenance lead regarding this subject.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: CIP 63-222 Area Wide Waste Heat Recovery

LOCATION:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<tbody>
<tr>
<td>Signature:</td>
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<tr>
<th>Department Director Name:</th>
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<tbody>
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<td>Department Director Signature:</td>
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</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation  
**LOCATION:** ATQ, KAK, NUI, AKP, PHO, AIN, PIZ, BRW

---

**NSB PLANNING DEPARTMENT USE ONLY**  
**TEMPORARY/CIP PROJECT NUMBER:** 13-251  
**TYPE:** UpFund  
**DATE SUBMITTED:** 3/4/2020  
**AMOUNT REQUESTED:** $1,255,000  
**REQUESTING ENTITY:** Public Works / Power Generation & Distribution  
**AMOUNT RECOMMENDED:**

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**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning 
   Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

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1. **REQUESTING ENTITY:** Public Works / Power Generation & Distribution
2. **PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation
3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by 
   village. Attach additional sheets if necessary.

   This is a reoccurring area wide project.

   Funds requested will be used to procure and deliver major durable power grid components to include transformers, cut-
   outs, fuses, switch gear, meter bases, power poles, pole cross arms, and associated hardware.

   We received a 2019-10 G.O. Bond upfund of $633,000. A large portion of these funds will be used for the Wainwright 
   conversion from 7200 volts to 4160 volt requiring that transformers be replaced. This is an effort to standardize as all of the 
   other power grids area wide are 4160 volts.

   As in the past, the major component in need of replacement this funding cycle are transformers. This upfund will provide 
   for the replacement of 70 transformers for Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Wainwright and 
   Point Lay. This request will also provide for replacement of other components listed on an as needed, as required, basis. 
   Many of the Borough's 3 phase services on our facilities in the villages that provide essential services have reached the end 
   of their useful life and need to be replaced. This request includes an estimate to replace these services.

   Funds in this project are also used on an emergency basis, therefore, a balance should always be maintained as a safety net. 
   Funding this request will assist Public Works in the goal of providing for the reliable distribution of electrical power to our 
   residents and facilities of the NSB with minimal downtime.

4. **PROJECT LOCATION:**
   - Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Wainwright & Point Lay
PROJECT NAME: CIP 63-251 Areawide Power Grid Preservation  
LOCATION: ATQ, KAK, NUI, AKP, PHO, AIN, PIZ, BRW

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$504,000: 70 transformers area wide at $7,200 each.  
$300,000: For replacement of Borough 3 phase services area wide that reached the end of their useful life.  
$200,000: For other power grid components as needed, as required.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td>$1,004,000</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>(NSB project management)</td>
<td>$100,400</td>
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<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td>$150,600</td>
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<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td>$</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$1,255,000</strong></td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  
☐ No  ☑ Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:  
Is this a phased project or a follow-up to an existing CIP project?  
☐ No  ☑ Yes  
If yes, indicate name and CIP project number: CIP 63-251

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This is not a phased project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   Present conditions require corrective action. The Design needs to be escalated to advance delivery prior to construction funding.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
    Electrical components in our coastal villages deteriorate extremely fast due to the extremely corrosive salt water environment which if not replaced, eventually cause as outage. Often these outages occur under high wind and storm conditions making mobilization to restore an outage hazardous and dangerous. If we are able replace these deteriorating components before they fail, outages are eliminated. Our non-coastal villages see minimal deterioration however, the age of some equipment has surpassed it's useful life which can lead to unforeseen problems and outages.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       N/A
    C. Indicate if this is a reoccurring upgrade or repair.
       Reoccurring Upgrade
    D. Detail outside funds being leveraged, if applicable.
       No outside funds are being leveraged

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
□ No □ Yes (If yes, include written verification)  
Explanation, if necessary:  
Upgrading and replacement of aging and deteriorating electrical components with new more durable and reliable components, results in less outages that require costly mobilization efforts by our line crew to restore power.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
□ No □ Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristopher Kolodziej, Power System Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)


**PROJECT NAME:** CIP 63-258 Village Power Distribution Grid Upgrades  
**LOCATION:** AIN, AKP, ATQ, BTI, NUI, PIZ, BRW, PHO

---

**NSB PLANNING DEPARTMENT USE ONLY**

<table>
<thead>
<tr>
<th>TEMPORARY/CIP PROJECT NUMBER:</th>
<th>13-258</th>
<th>TYPE UpFund</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE SUBMITTED:</td>
<td>3/4/2020</td>
<td>AMOUNT REQUESTED: $8,875,000 with $1,200,000 through LOI</td>
</tr>
<tr>
<td>REQUESTING ENTITY:</td>
<td>Public Works / Power Generation &amp; Distribution</td>
<td>AMOUNT RECOMMENDED:</td>
</tr>
</tbody>
</table>

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**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**  
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Incomplete or unsigned requests are unacceptable and will be returned.

---

| 1. REQUESTING ENTITY: | Public Works / Power Generation & Distribution |
| 2. PROJECT NAME: | CIP 63-258 Village Power Distribution Grid Upgrades |
| 3. PROJECT DESCRIPTION: | If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.  
Kaktovik - This has bid and will be under construction beginning Summer 2020 lasting through Summer 2021. Cost overruns on completing Nuiqsut and higher than anticipated estimated construction costs for Kaktovik have created a shortage of funds to complete this project. The bid for Kaktovik was structured with a base bid and six (6) additive/deductive Options. Additional funds are requested to bring the unfunded Options into the Construction.  
Point Lay - Funds are requested to solicit for design services and then to competitively bid a construction contract.  
Atqasuk - Funds are requested to solicit for design services.  
The Power Distribution Grids in these locations are deteriorating and aging prematurely as a result of the harsh arctic environment that subjects these systems to high wind and ice loads. The coastal Villages have the added element of an extremely corrosive atmosphere that escalates the aging process. This results in numerous outages as a result of conductor and/or connector failures, breaking cross arms, insulator failures, jumpers failures, etc. These outages not only inconvenience our customers but put our facilities at risk of freezing and jeopardize the safety of the residents and the linemen that must restore power once it is lost. Approval of this request will help address these problems areawide and will help ensure the safety of our residents, linemen and provide more reliable delivery of power to our customers. |

4. PROJECT LOCATION:

Areawide: Nuiqsut, Kaktovik, Atqasuk, Wainwright, Point Hope, Point Lay, Anaktuvuk Pass, Barrow
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

- **$ 700,000:** Atqasuk and Point Lay Design & Construction Administration Services
- **$1,200,000:** Kaktovik Construction Shortfall ($5,200,000 Con. Est. - $4,000,000 Current Budget)
- **$5,200,000:** Point Lay Construction
- **$1,065,000:** Direct Project Management Costs & Contingency ($710,000 -10% Direct Costs / $1,065,000 - 15% Contingency)

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design and Construction Administration for Atqasuk and Point Lay ($350,000 each = $700,000)</td>
<td>Estimate based on mid-range of Design &amp; CA costs for Nuiqsut (DSC - $400,000) and Kaktovik (EEC - $300,000)</td>
<td>$700,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Kaktovik Construction Shortfall: $1,200,000 Point Lay Construction: $5,200,000</td>
<td>Kaktovik Construction Estimate/Budget Difference Point Lay Construction based on Kaktovik</td>
<td>$6,400,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10% total project direct costs</td>
<td></td>
<td>$710,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>15% contingency due to increased material costs, unknown bidder interest and competition, and unknowns.</td>
<td></td>
<td>$1,065,000</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$ 8,875,000</strong></td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** ☑ No ☒ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

$1,200,000 Estimated shortfall for Kaktovik construction as this a current project and we want to award the portions that we were unable to due to available funding.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☒ Yes

If yes, indicate name and CIP project number: CIP 63-258

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.

- Atqasuk: $350,000 (Design and CA Services) Kaktovik: $1,200,000 (Construction Shortfall)
- Point Lay: $5,550,000 (Design and CA Services, and Construction)

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule? ☑ No ☑ Yes
If Yes, is it scheduled for replacement before 2025? □ No □ Yes
If No, explain why it should be considered out of sequence:
This project is ongoing and upgrades are prioritized based on existing condition of the condition of the power grid in each Village. This project has also been used for emergency repairs. We have been upgrading, with contracted construction, one village at a time, which typically lasts two (2) construction seasons.
Point Hope was completed in 2016. Nulato was completed in 2019. Kaklik is currently under construction. Point Lay is the next complete power grid upgrade planned.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
The current Village Power Distribution Grids are aging and deteriorating and in need of upgrading and replacement. Their current condition results in numerous outages as a result of conductor or connector failures, breaking cross arms, insulator failures, jumper failures, etc. Outages inconvenience Village residents, put homes and Borough facilities at risk of freeze up, and jeopardize the safety of Village residents and the lineman responding to power outages. Project funds are also used for emergencies when catastrophic failures power system failures occur.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will upgrade and replace existing aging and deteriorating power distribution grids therefore decreasing operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.
This is a non-reoccurring upgrade and the improved Village Power Distribution Grids will have an estimated 20 year life.

D. Detail outside funds being leveraged, if applicable.
No outside funds are being leveraged

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☑ Yes (If yes, include written verification)

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☑ Yes (If yes, include written verification)

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: CIP 63-258 Village Power Distribution Grid Upgrades
LOCATION: ALN, AKP, ATQ, BTI, NUI, PIZ, BRW, PHO

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)

Explanation, if necessary:

Power grid upgrades and replacements will reduce the number of emergency call-outs, air charters, and Search & Rescue air assistance required to to downed lines and switchgear failures.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible.

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristopher Kolodziej, Power System Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

Department Director Name:

Department Director Signature: [Signature] Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: CIP 63-265 Area Wide Electrical Revenue Metering (smart metering)
LOCATION: Area wide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 13-265
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works, Power Generation and Distribution

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works, Power Generation and Distribution
2. PROJECT NAME: CIP 63-265 Area Wide Electrical Revenue Metering (smart metering)
3. PROJECT DESCRIPTION: If this request is for an area-wide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is a re-occurring project

The purpose of this project is to provide "smart", or advanced electronic revenue meters and meter communication systems area wide for the villages

The requested funding in this request would design, purchase, deliver and install advanced electronic metering systems and metering communication support

4. PROJECT LOCATION:

Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$200,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>$150,000</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10%</td>
<td>$20,000</td>
<td></td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
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<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$200,000</strong></td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☒ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☑ Yes

If yes, indicate name and CIP project number: CIP 63-265

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? □ No  □ Yes
If Yes, is it scheduled for replacement before 2025?  □ No  □ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Provide automated, remote meter reading capability to reduce errors in meter reading. More closely monitor billing meters, remotely query disruptions of power to services and allow more efficient response to power outages and provide higher correlation between generated vs. billed energy in Alaska AEA reporting.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
Will not expand facilities or services

C. Indicate if this is a reoccurring upgrade or repair.
This is a reoccurring project

D. Detail outside funds being leveraged, if applicable.
No outside funds are being leveraged

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

[With the implementation of a smart meter system, accuracy in reads and billing are expected to provide a consistent idea of the cost of power.]

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  □ No  □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title</th>
<th>Kristopher Kolodziej, Power System Manager</th>
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<tbody>
<tr>
<td>Signature:</td>
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</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: CIP 63-278 Anaktuvuk Pass Power Plant Upgrades
LOCATION: Anaktuvuk Pass, AK

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 13-278
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works, Power Generation and Distribution

TYPE: UpFund
AMOUNT REQUESTED: $8,000,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works, Power Generation and Distribution

2. PROJECT NAME: CIP 63-278 Anaktuvuk Pass Power Plant Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Upgrade automated controls, cooling and exhausts system, replace the direct digital control (DDC) system, with programmable logic control (PLC) system and human machine interface (HMI) panels for remote control and monitoring. Install new motor control center (MCC). Facility expansion required to accommodate new cooling system to maximize efficiencies and decrease emissions. Other equipment upgrades and priorities to be established by Public work's as the work progresses

4. PROJECT LOCATION:
Anaktuvuk Pass, Alaska
PROJECT NAME: CIP 63-278 Anaktuvuk Pass Power Plant Upgrades
LOCATION: Anaktuvuk Pass, AK

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$8,000,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>65% Cost Estimate</td>
<td>$7,350,000</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
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<tr>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>$8,000,000</td>
</tr>
<tr>
<td></td>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
If yes, indicate name and CIP project number: CIP 63-278

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
If Yes, is it scheduled for replacement before 2025?  □ No  □ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
The existing equipment scheduled for replacement has surpassed its useful life expectancy and is not functioning properly causing multiple maintenance repairs which could potentially cause power outages to the village.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will expand the existing fan room to provide a larger area for the new radiators to run more efficiently while providing better maintenance access around the units.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☑ No  ☒ Yes  (If yes, include written verification)

Explanation, if necessary:

Reduce fuel costs. More energy efficient equipment is being provided which will generate a cost savings to the Borough’s operating budget, and lower the NSB’s maintenance costs as fewer service calls will be required.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No  ☑ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible.

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP PROJECT REQUEST FORM

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Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works / Power Generation & Distribution
2. PROJECT NAME: Areawide Power Generation Upgrade 13-279
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project funds for major overhaul of generator engines and associated equipment, major upgrades and reconditioning of power plants in villages. Completing timely engine overhauls is critical to providing reliable electrical generation.

This Project will also funds small repairs of generators, replacement of generators parts & switch gear.

This Project will also fund replacement parts for NSB Facilities Emergency generators areawide.

4. PROJECT LOCATION:
Areawide
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$1,500,000.00

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Engine overhaul contract, misc material purchases</td>
<td>Historical</td>
<td>$1,200,000.00</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10%</td>
<td></td>
<td>$150,000.00</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>10%</td>
<td></td>
<td>$150,000.00</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL** $1,500,000.00

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** [x] No  [x] Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   Is this a phased project or a follow-up to an existing CIP project?  [x] No  [x] Yes
   If yes, indicate name and CIP project number: 13-279
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Areawide Power Generation Upgrade 13-279  
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
If Yes, is it scheduled for replacement before 2025?  □ No  □ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   This project provides funds for major Alaska Dept. of Environmental Conservation (ADEC) required overhauls on generator engines and other necessary upgrades to power plants areawide. Completing timely engine overhauls is critical to providing reliable electrical generation. Any deviation from ADEC granted permits and/or regulations will surely cost the NSB hefty fines. With the currently planned upgrades this year, it would be in the best interest for NSB to continue major upgrades sequentially including streamlining vendor supported control systems. The quality and reliability of the life of our power plants depend on such advancements, as well as our communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   Project will not expand facilities or services

C. Indicate if this is a reoccurring upgrade or repair.
   Reoccurring

D. Detail outside funds being leveraged, if applicable.
   No outside funds.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes (If yes, include written verification)
   Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes (If yes, include written verification)
   Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes (If yes, include written verification)
   Explanation, if necessary:
PROJECT NAME: Areawide Power Generation Upgrade 13-279
LOCATION: Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
This project will reduce maintenance materials

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<td>Date: 3.2.20</td>
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</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 14-131
TYPE: UpFund
DATE SUBMITTED: 2/13/2020
AMOUNT REQUESTED: $2,112,000
REQUESTING ENTITY: NSB SEARCH & RESCUE
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB SEARCH & RESCUE

2. PROJECT NAME: NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>401TS</td>
<td>ENGINE MID TIME 41.2 HOURS, OVERHAUL NOW $500,000.00</td>
<td>$500,000.00</td>
</tr>
<tr>
<td>402ES</td>
<td>AIRFRAME 11-2020 to 11-2021 REFURBISH &amp; UPGRADES $120,000.00</td>
<td>$120,000.00</td>
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<tr>
<td></td>
<td>RETIREMENT, REPLACEMENT PARTS $150,000.00</td>
<td>$150,000.00</td>
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<tr>
<td></td>
<td>TOTAL $1,270,000.00</td>
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<td>405ES</td>
<td>AIRFRAME 11-2020 to 11-2021 REFURBISH &amp; UPGRADES $100,000.00</td>
<td>$100,000.00</td>
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<tr>
<td></td>
<td>RETIREMENT, REPLACEMENT PARTS, &amp; AOG PARTS $100,000.00</td>
<td>$100,000.00</td>
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<tr>
<td></td>
<td>TOTAL $200,000.00</td>
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</tr>
<tr>
<td>409SR</td>
<td>AIRFRAME 11-2020 to 11-2021 REFURBISH &amp; UPGRADES $50,000.00</td>
<td>$50,000.00</td>
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<tr>
<td></td>
<td>RETIREMENT, REPLACEMENT PARTS, &amp; AOG PARTS $100,000.00</td>
<td>$100,000.00</td>
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<td>TOTAL $150,000.00</td>
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<tr>
<td>700SR</td>
<td>AIRFRAME 11-2020 to 11-2021 REFURBISH &amp; UPGRADES SELLING PARTS REPLACEMENT</td>
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<tr>
<td></td>
<td>RETIREMENT PARTS, AOG PARTS SELLING TOTAL SELLING</td>
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</tr>
<tr>
<td>817CB</td>
<td>AIRFRAME MAINTENANCE PARTS NOT COVERED BY TAP 11-2020 to 11-2021 $300,000.00</td>
<td>$300,000.00</td>
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<tr>
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<td>EXAMPLE: FLIR, TRACKBEAM, MEDICAL, &amp; OTHER OPTIONAL EQUIPMENT INSTALLED</td>
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<td>TOTAL $300,000.00</td>
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</tr>
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<td>PARTS NOT COVERED BY CRYSTAL BLUE PROGRAM OR WARRANTY .00</td>
<td>.00</td>
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<tr>
<td></td>
<td>TOTAL .00</td>
<td>.00</td>
</tr>
</tbody>
</table>

4. PROJECT LOCATION:
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT: N401ES: $1,270,000.00; N402ES:$200,000.00; N408SR:$150,000.00; N917CB:$300,000.00; 10% ADMINISTRATION COST:$192,000.00.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT</td>
<td>$1,920,000.00</td>
<td>$1,920,000.00</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>$</td>
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</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10% ADMINISTRATION COST</td>
<td>$192,000.00</td>
<td>$192,000.00</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$ 2,112,000.00</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td></td>
<td>$</td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2019? ☒ No ☒ Yes

If yes, please identify how much will be needed prior to November 2019 and justify why it will be needed. 

N/A

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☒ No ☒ Yes
If yes, indicate name and CIP project number: 64106
A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an area-wide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
PROJECT NAME: NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT
LOCATION: BARROW, AK

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2024? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:
   COMPUTERIZED AIRCRAFT LOGBOOK MANAGER (C.A.L.M.) SYSTEMS IS USED ON ALL NORTH SLOPE BOROUGH SEARCH AND RESCUE AIRCRAFTS TO BASE ON ANTICIPATED FLIGHT ACTIVITY FOR THE MAINTENANCE DIVISION AND DETAILS WHEN RETIRED OR OVERHAUL PARTS ARE DUE.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
    THIS REQUEST IF FOR PURCHASE OF AIRCRAFT PARTS THAT WILL REPLACE RETIRED USEFUL LIFE OR FAILED PARTS. BEING ABLE TO MAINTAIN THE AIRCRAFTS OPERATIONAL WILL ALLOW SEARCH AND RESCUE TO KEEP PROVIDING SAFE, RAPID, AND RELIABLE AIRBORNE RESPONSE TO MEDICAL EVACUATIONS (MEDEVACS), SEARCH AND RESCUES, AND OTHER EMERGENCIES MAINTAINING A 24/7 RESPONSE CAPABILITY.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
    N/A
    C. Indicate if this is a reoccurring upgrade or repair.
    THIS REQUEST IF FOR PURCHASE OF AIRCRAFTS PARTS, THAT WILL REPLACE RETIRED USEFUL LIFE OR FAILED PARTS. BEING ABLE TO MAINTAIN THE AIRCRAFTS OPERATIONAL WILL ALLOW SEARCH AND RESCUE TO KEEP PROVIDING SAFE, RAPID, AND RELIABLE AIRBORNE RESPONSE TO MEDICAL EVACUATIONS (MEDEVACS), SEARCH AND RESCUES, AND OTHER EMERGENCIES MAINTAINING A 24/7 RESPONSE CAPABILITY.
    D. Detail outside funds being leveraged, if applicable.
    THIS IS AN ON-GOING PROJECT, BUT THE FUNDING REQUEST ARE FOR AIRCRAFT PARTS THAT WILL BE USED AS WELL AS REFURBISHMENT AND OVERHAULS THAT WOULD BE SCHEDULED THROUGHOUT 2020-2021

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
    Explanation, if necessary:
    N/A

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
    Explanation, if necessary:
    N/A

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
    Explanation, if necessary:
    N/A
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  
\( \square \) No  \( \square \) Yes  (If yes, include written verification)  
Explanation, if necessary:  
N/A  

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
\( \square \) No  \( \square \) Yes  (If yes, include written verification)  
Explanation, if necessary:  

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
\( \square \) No  \( \square \) Yes  If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible  

13. ATTACHMENTS: List any supplemental information submitted with this request.  
PLEASE SEE ATTACHED FILE.  

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.  
N/A  

15. REQUESTOR INFORMATION:  

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>LUCINDA ELLIOTT, SAR DIVISION MANAGER</th>
</tr>
</thead>
</table>
| Signature:                | [Signature]                          | Date: \( \_2/17/2020 \) \n
<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>APRIL D. BROOKS, DIRECTOR OF SEARCH AND RESCUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
</tbody>
</table>

Planning Department Use Only  

Summary of PRC / Planning Commission discussion and recommendation  

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)  

Department of Planning and Community Services, Community Planning Division  
Revised Department Project Request Form – December 2018  
Page 4 of 4
### 401ES
- **Engine Mid Time** 41.2 Hours Overhaul *Now* 500,000.00
- **Engine Mid Time** 41.2 Hours Overhaul *Now* 500,000.00
- **Airframe 11-2020 to 11-2021 Refurbish & Upgrades** 120,000.00
- **Retirement and Replacement Parts** 150,000.00
- **Total** 1,270,000.00

### 402ES
- **Airframe 11-2020 to 11-2021 Refurbish & Upgrades** 100,000.00
- **Retirement, Replacement Parts, & AOG Parts** 100,000.00
- **Total** 200,000.00

### 408SR
- **Airframe 11-2020 to 11-2021 Refurbish & Upgrades** 50,000.00
- **Retirement, Replacement Parts, & AOG Parts** 100,000.00
- **Total** 150,000.00

### 789SR
- **Airframe 11-2020 to 11-2021 Refurbish & Upgrades** Selling
- **Parts Replacement: Retirement Parts and AOG Parts** Selling
- **Total** Selling

### 917CB
- **Airframe Maintenance Parts Not Covered by TAP 11-2020 to 11-2021** 300,000.00
- **Example: FLIR, TrakkaBeam, Medical, & Other Optional Equipment Installed**
- **Total** 300,000.00

### 827HB
- **Airframe 11-2020 to 11-2021 Refurbish & Upgrades** .00
- **Parts Not Covered by Crystal Blue Program or Warranty** .00
- **Total** .00
PROJECT NAME: Village Landfill Fences
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 15-088
DATE SUBMITTED: 12/16/2019
REQUESTING ENTITY: Public Work/Village Services

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Work/Village Services
2. PROJECT NAME: Village Landfill Fences
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The areawide Village Landfill Fences are frequently damaged by snow drifts. The tension wire and chain link fabric get stretched and pulled down the posts. The fabric cannot be reused. Posts and top rail also bent and damaged during spring breakup.

DEC requires landfill to be secure, with chain link fences and gates.

This request is for Wainwright, The landfill historically is covered with snow. Vehicle access the landfill is through tunnels during late winter months. The chain link fences, and gates are damaged and need repair.

The conditions at Point Lay have changed recently, A dedicated snow fence protect the landfill, so excess snow will not inundate the site.

4. PROJECT LOCATION:

Areawide
5. **DOLLAR $ AMOUNT OF THIS REQUEST**: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<td>$</td>
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<td>Professional Services (Design, legal, other)</td>
<td>Design 8%</td>
<td>Based on historic projects</td>
<td>$64,000.00</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$800,000.00</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM 10%</td>
<td></td>
<td>$86,400.00</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>10%</td>
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<td>$142,560.00</td>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL** $679,960.00

**TOTAL PROJECT COST** (if different) $-

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** [X] No [ ] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

   Is this a phased project or a follow-up to an existing CIP project? [X] No [ ] Yes

If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   Estimates have not been prepared for all sites. It is anticipated that is similar funding levels may be needed at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
    The Village Landfill Fences are damaged and do not secure the landfills. DEC requires that landfill be secure. This may be a deficiency on the next landfill inspection.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
    This project does not expand NSB facilities, but it will reduce the maintenance cost of the landfill fencing.

    C. Indicate if this is a reoccurring upgrade or repair.
    This is a reoccurring project until all sites are upgraded.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
    Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
    Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
    Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No  ☑ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, RA&amp;S Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date: 3/10/20</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Donner, Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date: 3/10/20</td>
<td></td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special Instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

Department of Planning and Community Services, Community Planning Division
Revise d Department Project Request Fcrm – June 2019
NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 15-104
DATE SUBMITTED: 03/10/2020
REQUESTING ENTITY: Department of Public Works

AMOUNT REQUESTED: $5,000,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Department of Public Works
2. PROJECT NAME: Barrow Landfill Phase V
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The current permitted approved plan is to close Cell 2, use Cell 4 as active cell and Cell 3 as a working pad. Cell 3 was completed 3 years ago and still actively being drained. Operations is able to use Cell 3 in the winter, but cannot operate equipment during the summer months. In order for Operations to utilize Cell 5 as a working pad for the next phase Cell 5 will need to be built in advance to give time for the pad to drain.

4. PROJECT LOCATION:
Utqiagvik
PROJECT NAME: Barrow Landfill Phase V
LOCATION: Utqiagvik

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Cell 5 Pad Construction $5,000,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design @ 4%</td>
<td>$200,000</td>
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<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM 10%</td>
<td>$500,000</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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<td>$</td>
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</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>$5,000,000</td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No    ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No   ☒ Yes
If yes, indicate name and CIP project number.
A. If this is a new request, indicate below whether this project could be phased and over how many years.
N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
N/A
PROJECT NAME: Barrow Landfill Phase V  
LOCATION: Utqiagvik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough's Repair & Replacement Schedule? X No  ■ Yes  
If Yes, is it scheduled for replacement before 2025? ■ No  ■ Yes  
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  
Cell 5 is the next cell designed for operation. Cell 5 will be completed and operations shift to Cell 5 late 2020. The development is required to maintain the solid waste disposal service in Utqiagvik, and to remain in compliance with the DEC Solid Waste permit.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.  
The project will expand the Barrow landfill, but not change services. Operational costs increase are expected to be minor, tied to monitoring activities at the closed cells.

C. Indicate if this is a reoccurring upgrade or repair.  
Yes, as the landfill fills up, a new cells will be opened, and full cells will be closed.

D. Detail outside funds being leveraged, if applicable. 
none

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? X No  ■ Yes (If yes, include written verification)  
Explanation, if necessary:  
DEC has written numerous letters that the NSB need to say in compliance at the landfill, and to stay ahead of developments. Failure to meet development requirements this year are likely to be met with an NOV.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? X No  ■ Yes (If yes, include written verification)  
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? X No  ■ Yes (If yes, include written verification)  
Explanation, if necessary:
**PROJECT NAME:** Barrow Landfill Phase V  
**LOCATION:** Utqiagvik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  
□ No  □ Yes  
(If yes, include written verification)  
Explaination, if necessary:  

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
□ No  □ Yes  
(If yes, include written verification)  
Explaination, if necessary:  

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
□ No  □ Yes  
If yes, indicate PAR name and date: 18-041 Barrow Landfill Phase II Development  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, RA&amp;S Division Manager, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>3/10/20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>3-10-20</td>
</tr>
</tbody>
</table>

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AREAWIDE LANDFILL EXPANSION  
LOCATION: POINT HOPE

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 15-107  
DATE SUBMITTED: 02/26/2020  
REQUESTING ENTITY: Department of Public Works

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Department of Public Works

2. PROJECT NAME: AREAWIDE LANDFILL EXPANSION

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   The landfill for Point Hope will be nearing capacity for the existing developed boundary. The project requires early permitting and expansion to allow for uninterrupted disposal of municipal solid waste. The proposed expansion is to construct containment berms on top of the existing developed landfill footprint thus increasing the storage capacity of the landfill.

4. PROJECT LOCATION:

   Point Hope

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – June 2019  
Page 1 of 4

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PROJECT NAME: AREAWIDE LANDFILL EXPANSION
LOCATION: POINT HOPE

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$2,597,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design and CA</td>
<td>12%</td>
<td>$ 209,001</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>Engineers ROM Estimate</td>
<td>$ 1,741,679</td>
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<td>CIPM</td>
<td>10%</td>
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<td>Engineers ROM Estimate</td>
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<td>TOTAL</td>
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<td>$ 2,596,843</td>
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7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No    ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No    ☒ Yes
If yes, indicate name and CIP project number: 65-107

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This is a followup request to fund the Point Hope Landfill. Wainwright was funded in 2017.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Point Hope Cost: $2,596,843

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – June 2019

Page 2 of 4
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   The landfill is reaching capacity and bears consideration outside of the schedule. No accessible alternatives exist at this point in time for alternate disposal sites.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       The project will expand the existing landfill within the existing developed landfill footprint. The project will add additional storage capacity to the landfill and provide continued waste disposal for the communities.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       The project does not expand existing facilities footprint and will not add to the operating costs of the landfills.
    C. Indicate if this is a reoccurring upgrade or repair.
       This is a one time upgrade.
    D. Detail outside funds being leveraged, if applicable.
       none

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanations, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanations, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  ☒ No  ☐ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible.

13. ATTACHMENTS: List any supplemental information submitted with this request.

UMIAq Landfill Expansion Cost Estimate February 24, 2017

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, Deputy Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name: Scott K. Danner, Director, Department of Public Works</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature: [Signature] Date: 3.2.20</td>
<td></td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Vesta E911 System Upgrade
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 17-NEW-01 TYPE: NEW
DATE SUBMITTED: 2/13/2020
REQUESTING ENTITY: Police Department
AMOUNT REQUESTED: $879,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Police Department
2. PROJECT NAME: Vesta E911 System Upgrade
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
   This project will upgrade the current 911 call taking equipment with new Vesta E911 equipment and operating system.
The existing equipment is at its end of life.
The equipment will be housed at the Police Department, but a new portable command post will be put into the EOC. This new command post is a very cost effective mobile solution for emergency call centers in need of temporary call taking abilities at a remote location such as the Boroughs EOC. this is one more step taken towards having a true hardened EOC.
This equipment provides 911 call taking services to the entirety of the North Slope Borough.

4. PROJECT LOCATION:
The Equipment would be housed in Barrow at the Police Department and the EOC, but the service area is the geographic area of the North Slope Borough.
PROJECT NAME: Vesta E911 System Upgrade  
LOCATION: Barrow

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Total project costs including 10% contingency is $878,713.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Labor, Training, Logistics</td>
<td>Vendor Quote</td>
<td>$175,790.00</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Hardware and Licensing</td>
<td>Vendor Quote</td>
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<td>Administration (NSB project management)</td>
<td>Engineering and Management</td>
<td>Vendor Quote</td>
<td>$16,255.00</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td></td>
<td>$79,883.00</td>
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<tr>
<td>Other Costs (with description)</td>
<td>5 year MSA and Warranty</td>
<td>Vendor Quote</td>
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<td>TOTAL</td>
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<td></td>
<td>$878,713.00</td>
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<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td></td>
<td>$878,713.00</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

This upgrade cannot be phased.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

the equipment resides in Barrow, but this service spreads to all Villages, and the entire Borough

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☑ Yes
If Yes, is it scheduled for replacement before 2025? ☑ No ☒ Yes
If No, explain why it should be considered out of sequence:
The current 911 call taking equipment has reached its end of life, and a system upgrade is required to maintain
a trouble-free system, and to provide 911 call taking capability for the next 5 to 10 years with a high degree of confidence.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation
of the current deficiencies.
The current 911 call taking system is close to its expected end of life. And as in many computer systems, servers and consoles need a refresh usually about every 5
years. This current system was live in 2014. The current system is using windows 7, which has an end of life date of 1-14-2020.
The system hardware is at end of life and will not support Vistas software upgrades.
Included in this proposal is the important mobile command post, this is a portable laptop that should be located in the EOC, this will give the Borough the ability to
continue to take 911 calls in the event something would happen to the Dispatch center.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and
maintenance costs.
The new system will expand its services in that new technology will allow not only audio 911 calls to be taken at the PSAP center, but also accept SMS/Text 911 calls as
well. This very beneficial option will give someone in need of assistance, the ability to text and not have to make a voice call.
Included in this proposal is the important mobile command post, this is a portable laptop that should be located in the EOC, this will give the Borough the ability to
continue to take 911 calls in the event something would happen to the Dispatch center. This will be one more step taken to insure the Borough has a true EOC.

C. Indicate if this is a reoccurring upgrade or repair.
This system should be monitored for upgrade/replacement as recommended by equipment
manufacturers and system vendors. PCA has indicated that this new system may be supported for up to
10 years.

D. Detail outside funds being leveraged, if applicable.
None

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for
a plan of action, relating to a Borough service or facility? ☒ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:
The Boroughs current Managed Services Agreement is with ProCommAlaska, Included in the MSA is an annual site visit for
a health check of the system. PCA has been advising that we are in of this upgrade. A formal letter will be provided by PCA.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer
or architect? ☒ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent,
verifiable and documented threat to public health exists? ☒ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes *(If yes, include written verification)*
Explanation, if necessary:

PCA, the Boroughs system provider has advised that this upgrade is needed to avoid interruption in 911 call taking service.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes *(If yes, include written verification)*
Explanation, if necessary:

Annual MSA will remain close to the same, however 5 years of this maintenance is included in the upfront cost, so the Borough will not incur any annual maintenance costs for 5 years.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  □ No  □ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

Vesta 911 System Upgrade by ProCommAlaska

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Darrel Love, Support Services Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>2-3-2020</td>
</tr>
</tbody>
</table>

Department Director Name: Jeffrey R. Brown

Department Director Signature: [Signature]  Date: 3 FEB 20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
February 27, 2020
Mr. Darrel Love
Support Services Manager,
North Slope Borough Police Department
Re: NSB PD E911 System Upgrade Requirements

Hello Mr. Love,

Glen can confirm too, but the reasons for the upgrades have to do with much of your software no longer being supported by MicroSoft. The Notification we received was that the software is no longer supported, and in order to install new software, the computers need to be upgraded as the new software won’t work on the old hardware. A Motorola VESTA Solution is the required upgrade.

The Windows 7 OS (call takers positions and admin machines) is no longer supported by MicroSoft. Windows 2008 Server (all servers related to call processing) are no longer supported by MicroSoft. This is the heart of your 911 Operating System.

Additionally, the NSB PD suite has Hypervisor 1 and Hypervisor 2 which host the MDS 1 and MDS 2 (Media Distribution Servers) as well as the DDS 1 and DDS 2 virtual Data Distribution Servers. MDS and DDS servers are both Windows 2008 OS and their support has waned too.

The intended upgrade is in response for a plan of action related to the Operating Systems involved, and the new hardware required software upgrades to the latest (supported) Operating Systems so we can monitor them or repair them if they have or have service issues.

Current call taker computers and servers are not capable of upgrading to the new Windows Operating Systems without hardware upgrades of the computers, so this is basically a complete upgrade. Due to the increased hardware requirements for upgrading to the latest Operating Systems, the NSB needs both the hardware and software upgrades. I hope this helps and let me know if you need more information.

Gary Peters
Gary Peters
Pres & CEO, ProComm Alaska
PROJECT NAME: Vehicle Replacement
LOCATION: Barrow Alaska

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-054-1 TYPE: UpFund
DATE SUBMITTED: 2/13/2020 AMOUNT REQUESTED: $92,000 All though LOI
REQUESTING ENTITY: Inupiat History, Language & Culture Department (IHLC) AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Inupiat History, Language & Culture Department (IHLC)
2. PROJECT NAME: Vehicle Replacement
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

We would like to replace the following Vehicles:

1. 2006 Ford Mini-Van VIN#2FMZAS1646BA067018
   With a 2020 Ford Transit Connect Wagon or similar (something that can seat 6 or more)

2. 2011 Ford Escape VIN#1FMCU9L748KC31260
   With a 2020 Ford Ranger Lariat pick up truck with 4 wheel drive and 4 doors.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Barrow IHLC Department
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020 mini-van or similar</td>
<td>$30,000 + $10,000 Freight or CWAT</td>
</tr>
<tr>
<td>2020 Ford Ranger 4 door</td>
<td>$42,000 + $10,000 Freight or CWAT</td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☐ No  ☑ Yes  
If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  ☑ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project?  ☑ No  ☐ Yes
If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule?  ☑ No  ☐ Yes
If Yes, is it scheduled for replacement before 2025?  ☑ Yes  ☐ No
If No, explain why it should be considered out of sequence:

Department of Planning and Community Services, Community Planning Division
Revised Vehicle and Equipment Request Form – June 2019

Page 2 of 4
PROJECT NAME: Vehicle Replacement
LOCATION: Barrow Alaska

10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

One of our vehicles is 14 years old and as I was dropping off our elders to their destination, we got stuck at a flat intersection because it is not 4 wheel drive and just old.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The maintenance cost will definitely go down.

C. Indicate if this is a reoccurring upgrade or repair.

No

D. Detail outside funds being leveraged, if applicable.

n/a

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: Vehicle replacement
LOCATION: IHLC Department

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☑ No       ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

Requestor Name and Title: Dorothy Edwardsen
Signature: [Signature] Date: 1/27/2020

Department Director Name: Colleen Aprik-Lemen
Department Director Signature: [Signature] Date: 01/27/2020

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Polar Bear Patrol
LOCATION: Utqiagvik & Kaktovik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-054-2
DATE SUBMITTED: 3/2/2020
REQUESTING ENTITY: NSB Department of Wildlife Management

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB Department of Wildlife Management
2. PROJECT NAME: Polar Bear Patrol
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   2020 Ford F-150 x3

   Kaktovik: adding one truck to the kaktovik fleet for polar bear patrol. currently we only have one Polar Bear Patrol vehicle there and would like to have one more for safety purposes. there is a high number of bears in the area.

   Utqiagvik: Adding one polar bear patrol vehicle to the fleet due to a higher than normal polar bear year. Also, truck #1008 f250 Crew cab will be phased out due to being in a collision.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Utqiagvik and Kaktovik.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

- Each vehicle will have a base cost of $37,000 x 3 = $111,000.00
- Amber Strobe Lights and LED Spot Lights $2500 x 3 = $7500.00
- Shipping to Utqiagvik and Kaktovik will be $10,000 x 3 = $30,000.00
- Total estimated cost = $148,500.00

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☐ No ☑ Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☑ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

Polar Bear Petrol Vehicles are actively all being worked on and not running.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☑ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

☐ If maintained properly the trucks can be phased every 6-10 years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☑ Yes

If Yes, is it scheduled for replacement before 2025? ☑ No ☑ Yes

If No, explain why it should be considered out of sequence:

A polar bear patrol vehicle in Kaktovik is warranted due to having only one patrol vehicle available for more than 3 active patrollers.

An additional Polar bear patrol vehicle in Utqiagvik is needed to supplement from taking harvest vehicles when not necessary as well as a higher than usual presence of Polar Bears getting into town.
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
currently the Department of Wildlife trucks are beginning to fail due to aging and rough use. our department uses the trucks heavily during the whaling and seal hunting seasons for sampling. new trucks will benefit our department by not having them out of commission and inoperable.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
one truck will be an addition for Utqiagviks fleet due to meet our Polar Bear Patrol needs. we need one more Patrol vehicle so we do not utilize the Harvest Vehicles.

C. Indicate if this is a reoccurring upgrade or repair.
this should be a one time upgrade.

D. Detail outside funds being leveraged, if applicable.
N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ❌ No  ✔ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ❌ No  ✔ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ❌ No  ✔ Yes (If yes, include written verification)
Explanation, if necessary:
without the Polar Bear Patrol Vehicles needed we face immediate danger from the increased Polar Bear interactions within the Villages of Utqiagvik and Kaktovik.

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ❌ No  ✔ Yes (If yes, include written verification)
Explanation, if necessary:
**PROJECT NAME:** Polar Bear Patrol  
**LOCATION:** Utqiagvik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
- No  ☒ Yes  (If yes, include written verification)

Explaination, if necessary:

less maintenance to the shop 1 employees.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

---

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

---

**14. REQUESTOR INFORMATION:**

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brower  Frank  Z, Subsistence Research Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>2-28-20</td>
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<table>
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<tr>
<th>Department Director Name:</th>
<th>[Name]</th>
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<tbody>
<tr>
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<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>2-28-20</td>
</tr>
</tbody>
</table>

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*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Barrow Up Fund Heavy Equipment Major Repair
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-094
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Barrow Up Fund Heavy Equipment Major Repair
3. PROJECT DESCRIPTION:
   - Vehicles: Indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Funds would be used to offset the cost for component failure that the operating budget would not be able to burden. Components failures are common with the aging equipment. Engines, transmissions and undercarriages are just some of the components failures the equipment maintenance deals with.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Barrow
5. **PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP FUND</td>
<td>$300,000.00</td>
</tr>
<tr>
<td>15% ADMIN</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>15% CONTINGENCY</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>TOTAL COST</td>
<td>$390,000.00</td>
</tr>
</tbody>
</table>

6. **TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

- [ ] No  [ ] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**

- [ ] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?

- [ ] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. **RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?

- [ ] No  [ ] Yes

If Yes, is it scheduled for replacement before 2025?

- [ ] No  [ ] Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Some components are at the end of their life and would need to be replaced.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

Yes

D. Detail outside funds being leveraged, if applicable.

N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☑ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☑ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☑ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☑ Yes (If yes, include written verification)

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   □ No   ☑ Yes  (If yes, include written verification)
   Explanation, if necessary:
   It will reduce maintenance cost on the operating budget in Barrow

12. ATTACHMENTS: List any supplemental information submitted with this request.
   N/A

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
   N/A

14. REQUESTOR INFORMATION:

   Requestor Name and Title: Robert Terzioski Lead Mechanic Shop II

   Signature: [Signature] Date: 02/27/20

   Department Director Name: Scott K. Danner, Department of Public Works Director

   Department Director Signature: [Signature] Date: 3.2.20

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Nuiqsut

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-102
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $893,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Nuiqsut require periodic upgrade or replacement to continue providing essential services to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

- Police Station HVAC upgrade $411,321.00
- Glycol Replacement at the Fair Station $100,000.00
- Fire Alarm Sprinkler System Upgrade and Add Building Alarm Notification - $300,000.00

4. PROJECT LOCATION:
Nuiqsut
5. **DOLLAR $ AMOUNT OF THIS REQUEST**: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$892,264.00

6. **PROJECT COST**: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>PSO HVAC Upgrades, Guard Replacement at Fire Station, Fire Alarm Sprinkler System Upgrade Add/Modification</td>
<td>$411,132.00, $100,000.00, $300,000.00</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM 10%</td>
<td>$41,132.00, $10,000.00, $30,000.00</td>
<td></td>
</tr>
<tr>
<td>Contingency (If not included in other line items)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>$892,264.00</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  
   [ ] Yes  [X] No
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR URFUND**:  
   Is this a phased project or a follow-up to an existing CIP project?  
   [ ] No  [ ] Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? [x] No  [ ] Yes
   If Yes, is it scheduled for replacement before 2025? [ ] No  [x] Yes
   If No, explain why it should be considered out of sequence:
   This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Services.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
    C. Indicate if this is a reoccurring upgrade or repair.
    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [x] No  [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [x] No  [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? [x] No  [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Nuiqsut

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title: Roberta Oviok, Division Manager Facility Maintenance

Signature: Date:

Department Director Name: Scott K. Danner

Department Director Signature: Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-103
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $1,358,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works

2. PROJECT NAME: Facility Major Repairs and Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
North Slope Borough Facilities in Anaktuvuk Pass require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades
Glycol Replacement for Fire Station
Fire Alarm Sprinkler System Upgrade and add Fire Alarm Notification: Power Plant, Simon Paneak Museum,
Water Treatment Plant an Waste Water Treatment Plant. $740,000.00

4. PROJECT LOCATION:
Anaktuvuk Pass
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$1,357,936.04

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>PSO HVAC Upgrade, Glycol Replacement Fire Station, Fire Alarm Sprinkler System Upgrade/Addition</td>
<td>394,487.31, $100,000.00, 740,000.00</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM 10%</td>
<td>39,448.73, $10,000.00, 74,000</td>
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</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different)** $1,357,936.04

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** ☑ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2025? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:
This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No   ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No   ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?  ☒ No   ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Roberta Oviok, Division Manager Facility Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>5.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Atqasuk

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-104
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

Type: UpFund
AMOUNT REQUESTED: $440,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Atqasuk require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Glycol Replacement for Fire Station $100,000.00
Fire Alarm Sprinkler System Add building Fire Alarm Notification, new fire pump controller for the Water Treatment Plant and Waste Water Treatment Plant $300,000.00

4. PROJECT LOCATION:
Atqasuk

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – June 2019
Page 1 of 4
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Glycol Replacement for Fire Station Fire Alarm Sprinkler System Add notifications</td>
<td>$100,000.00 $300,000.00</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM 10%</td>
<td>$10,000.00 $30,000.00</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td>$440,000.00</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Atqasuk

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☑ Yes
   If No, explain why it should be considered out of sequence:
   This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Roberta Oviok, Division Manager Facility Maintenance</th>
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<tbody>
<tr>
<td>Signature:</td>
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<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades  
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-106  
DATE SUBMITTED: 3/4/2020  
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $713,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works

2. PROJECT NAME: Facility Major Repairs and Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Wainwright require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades $427,846.00
Glycol Replacement for Fire Station $10,000.00
Fire Alarm and Sprinkler System Upgrades for WWTP $120,000.00

4. PROJECT LOCATION:

Wainwright
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Wainwright

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

712,627.60

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
</tbody>
</table>
| Professional Services (Design, legal, other) | Police Station HVAC  
Glycol Replacement Fire Station  
WWTP Fire Alarm Notification Installation | 427,845.00  
100,000.00  
120,000.00 | $ |
| Construction / Acquisition (anticipated costs) | | $ |
| Administration (NSB project management) | | 42,781.00  
10,000.00  
12,000.00 | $ |
| Contingency (if not included in other line items) | | $ |
| Other Costs (with description) | | $ |
| TOTAL | | $ |

TOTAL PROJECT COST (if different) $ 712,627.60

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No  ☐ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No  ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an area wide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   [This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due
to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.]

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation
       of the current deficiencies.
       [This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural,
       mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades
to continue to be safe and suitable for use.]
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and
       maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for
       a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer
       or architect? ☐ No ☒ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent,
       verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No  ☐ Yes  
(If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? 

☒ No  ☐ Yes  
(If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No  ☐ Yes  
If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Roberta Oviok, Division Manager Facility Maintenance</th>
</tr>
</thead>
<tbody>
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<td>Date:</td>
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</tbody>
</table>

Department Director Name: Scott K. Danner

Department Director Signature: [Signature]
Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Kaktovik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-107
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Kaktovik require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades $423,033.00
Glycol Replacement for Fire Station $100,000.00
Fire Alarm Sprinkler Suppression Upgrade, Addition Notification for Health Clinic, Vac Station, Water Treatment Plant, and Waste Water Treatment Plant - $425,000.00

4. PROJECT LOCATION:
Kaktovik
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$1,042,836.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>Police HVAC</td>
<td>$423,033.00</td>
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<td>(PAR, other studies or reports, etc.)</td>
<td>Glycol Replacement</td>
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<td></td>
<td>Fire Alarm Sprinkle System Addition Notification</td>
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<td>$</td>
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<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td>$1,042,836.00</td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No □ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☑ No □ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.
B. If this request is for an area-wide project, provide an estimated cost break down for how much will be spent at each site.
C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Kaktovik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No  ☐ Yes
   If No, explain why it should be considered out of sequence:
   This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
    This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☐ Yes  (If yes, include written verification)
    Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☐ Yes  (If yes, include written verification)
    Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☐ Yes  (If yes, include written verification)
    Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ❌ No  ✔ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   ❌ No  ✔ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
   ❌ No  ✔ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<td>Department Director Name:</td>
<td>Scott K. Danner</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]  Date: 3-2-20</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Lay

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-108
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $1,190,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Point Lay require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades $421,000.00
Glycol Replacement for Fire Station $100,000.00
Fire Alarm Sprinkler System Addition and Upgrade $560,000.00

4. PROJECT LOCATION:
Point Lay
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Lay

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$1,189,100.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Police Station HVAC Upgrades</td>
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<tr>
<td>TOTAL</td>
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<td></td>
<td>$1,189,100</td>
</tr>
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7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No □ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☒ No □ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Lay

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2025? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   
   C. Indicate if this is a reoccurring upgrade or repair.
   
   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes *(If yes, include written verification)*

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes *(If yes, include written verification)*

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes *If yes, indicate PAR name and date:*

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Department Director Name: Scott K. Danner

Department Director Signature: [Signature]

Date: 3.2.20

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-109
TYPE: UpFund
DATE SUBMITTED: 3/4/2020
AMOUNT REQUESTED: $1,760,000
REQUESTING ENTITY: Public Works
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
   Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
   village. Attach additional sheets if necessary.
   North Slope Borough Facilities in Barrow require periodic upgrade or replacement to continue providing
   essential service to the community. This is an ongoing project that is utilized to repair and upgrade many
   Borough Facilities and their control systems.
   Shop II Flooring, break room, additional bathroom $150,000.00
   Electronic door access controls upgrade to Genetec access controls, $150,000.00
   Heritage Center elevator upgrade $200,000.00
   Police Department HVAC Upgrades $150,000.00
   Shop III Boiler replacement $150,000.00
   Fire Alarm Sprinkler System Upgrade for Police Department, PW Transit Shop, PW Transit Station, Health
   Vet Clinic, Health Gathering Place and Old Search and Rescue Hangar $800,000.00

4. PROJECT LOCATION:
Barrow

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – June 2019
Page 1 of 4
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$1,760,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<td>(Design, legal, other)</td>
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<td>$1,600,000.00</td>
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<td></td>
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</tr>
<tr>
<td>TOTAL PROJECT COST (if different)</td>
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<td>$1,760,000.00</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  □ No  □ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  □ No  □ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No   □ Yes
   If Yes, is it scheduled for replacement before 2025?   □ No   □ Yes
   If No, explain why it should be considered out of sequence:
   This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
    This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.
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    C. Indicate if this is a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No   □ Yes   (If yes, include written verification)
    Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No   □ Yes   (If yes, include written verification)
    Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No   □ Yes   (If yes, include written verification)
    Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes *(If yes, include written verification)*
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes *(If yes, include written verification)*
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<td>Scott K. Danner</td>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Heavy Equipment Replacement & Upgrade
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-110
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

AMOUNT REQUESTED: $3,029,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works

2. PROJECT NAME: Wainwright Heavy Equipment Replacement & Upgrade

3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   Potable Water Truck Peterbilt single axle 1500 Gal SS tank
   Trash Truck Peterbilt 40 CU YD Tandem Frontload
   Snow Blower Oshkosh SEB single engine
   CAT D8 Dozer

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

   Wainwright
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

- Potable Water Truck Peterbilt single axle 1500 Gal SS tank $275,000 Freight $41,000
- Trash Truck Peterbilt 40 CU YD Tandem Frontload $271,000 Freight $49,000
- Snow Blower Oshkosh SEB single engine $570,000 Freight $47,000
- CAT D8 Dozer $900,000 Freight $100,000
- 15% Contingency $388,000
- 15% Admin $388,000
- Total Cost $3,029,000

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- No
- Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? No

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? No

If Yes, is it scheduled for replacement before 2025? No

If No, explain why it should be considered out of sequence:
PROJECT NAME: Wainwright Heavy Equipment Replacement & Upgrade
LOCATION: Wainwright

10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   This will improve services with less down time.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ❌ No  ✔ Yes (if yes, include written verification)

      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ❌ No  ✔ Yes (if yes, include written verification)

      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ❌ No  ✔ Yes (if yes, include written verification)

      Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ❌ No  ✔ Yes (if yes, include written verification)

      Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

| Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic |
|-----------------------------|-----------------------------|
| Signature:                  | Date: 02/27/20               |
| Department Director Name:   | Department of Public Works Director |
| Department Director Signature: | Date: 3.2.20          |

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Nuiqsut Heavy Equipment Replacement & Upgrade
LOCATION: Nuiqsut

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-111 TYPE: UpFund
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $2,113,000
REQUESTING ENTITY: Public Works AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Nuiqsut Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   Potable Water Truck Peterbilt single axle 1500 Gal 55 tank
   Volvo A25 Rock Truck
   Snow Blower Oshkosh SEB single engine
   Trash Truck Peterbilt 40 CU YD Tandem Frontload

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

   Nuiqsut
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable Water Truck Peterbilt single axle</td>
<td>$275,000</td>
</tr>
<tr>
<td>Volvo A25 Rock Truck</td>
<td>$383,000</td>
</tr>
<tr>
<td>Snow Blower Oshkosh SEB single engine</td>
<td>$570,000</td>
</tr>
<tr>
<td>Trash Truck Peterbilt 40 CU YD Tandem Frontload</td>
<td>$271,000</td>
</tr>
<tr>
<td>15% Contingency</td>
<td>$244,000</td>
</tr>
<tr>
<td>15% Admin</td>
<td>$244,000</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$2,113,000</td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?
   - No   - Yes
   If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

   Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?   - No   - Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR URFUND:
   Is this a phased project or a follow-up to an existing CIP project?   - No   - Yes
   If yes, indicate name and CIP project number.

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule?   - No   - Yes
   If Yes, is it scheduled for replacement before 2025?   - No   - Yes
   If No, explain why it should be considered out of sequence.
10. PROJECT JUSTIFICATION:

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature: [Signature] Date: 02/27/20</td>
</tr>
<tr>
<td>Department Director Name: Scott K. Danner, Department of Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature: [Signature] Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

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2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works

2. PROJECT NAME: Utqiagvik Heavy Equipment Replacement & Upgrade

3. PROJECT DESCRIPTION:
   - **Vehicles**: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - **Equipment**: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   CAT Grader 160 AWD
   VOLVO L180H Loader
   VOLVO A25G Rock truck
   VOLVO L90 loader
   Forklift for Gasfield/Genie GTH-1056
   Road Water Truck/Peterbilt Tandem 5000G

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

   Utqiagvik
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
<th>Freight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT Grader 160 AWD $428,000</td>
<td>$70,000</td>
<td></td>
</tr>
<tr>
<td>VOLVO L180H Loader $510,000</td>
<td>$62,000</td>
<td></td>
</tr>
<tr>
<td>VOLVO A25G Rock Truck $383,000</td>
<td>$28,000</td>
<td></td>
</tr>
<tr>
<td>VOLVO L90 Loader $208,000</td>
<td>$26,000</td>
<td></td>
</tr>
<tr>
<td>Forklift for Gasfield/Genie GTH-1056</td>
<td>$163,000</td>
<td>$37,000</td>
</tr>
<tr>
<td>Road Water Truck/Peterbilt Tandem 5000G</td>
<td>$198,000</td>
<td>$52,000</td>
</tr>
<tr>
<td>15% Contingency $326,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15% Admin $326,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cost $2,817,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- No  
- Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  
- No  
- Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

- Is this a phased project or a follow-up to an existing CIP project?  
- No  
- Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

- Is this project included in the Borough's Repair & Replacement Schedule?  
- No  
- Yes

If Yes, is it scheduled for replacement before 2025?  
- No  
- Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This will improve services with less down time.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes  (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)
      Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: Utqiagvik Heavy Equipment Replacement & Upgrade
LOCATION: Utqiagvik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   □ No  ✔ Yes  (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic

Signature: ___________________________ Date: 02/28/20

Department Director Name: Scott K. Danner, Department of Public Works Director

Department Director Signature: ___________________________ Date: 02.20

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-112-2
DATE SUBMITTED: 3/2/2020
TYPE: UpFund
AMOUNT REQUESTED: $84,000
REQUESTING ENTITY: NSB Department of Wildlife Management
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
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2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB Department of Wildlife Management

2. PROJECT NAME:

3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Bobcat 650 Skidsteer

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

Utqiagvik
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included. The cost of the equipment is $74,000 with $10,000 for shipping totaling $84,000.

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?  
   [X] No  [X] Yes  If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.  
   Vehicle specific training can be provided in house and does not require a CDL.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  
   [X] No  [ ] Yes  If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND: 
   Is this a phased project or a follow-up to an existing CIP project?  
   [ ] No  [X] Yes  If yes, indicate name and CIP project number:  
   A. If this is a new request, indicate below whether this project could be phased and over how many years.  
   B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
   Is this project included in the Borough's Repair & Replacement Schedule?  
   [X] No  [ ] Yes  If Yes, is it scheduled for replacement before 2025?  
   [X] No  [ ] Yes  If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   the NSBI Wildlife Department currently has a lack of snow removal at the NARL Facility and the Bobcat would help substantially for our facilities.
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   we have adequate facility space at the NARL Facility. Services would increase slightly for having a new piece of equipment.
C. Indicate if this is a reoccurring upgrade or repair.
   this should be a one time upgrade in equipment.
D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? X No  □ Yes (If yes, include written verification)
   Explanation, if necessary:
B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? X No  □ Yes (If yes, include written verification)
   Explanation, if necessary:
C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? X No  □ Yes (If yes, include written verification)
   Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? X No  □ Yes (If yes, include written verification)
   Explanation, if necessary:
PROJECT NAME: Utqiagvik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   [ ] No  [ ] Yes (If yes, include written verification)
   Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brower Franz, Subsistence Research Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature] Date: 3-2-20</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>[Name]</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>[Signature] Date: 3-2-20</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-112-3
DATE SUBMITTED: 2/46/2020
REQUESTING ENTITY: Ilisagvik

TYPE: UpFund
AMOUNT REQUESTED: $210,000 All though LOI
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Ilisagvik College
2. PROJECT NAME: Ilisagvik College VEWFD Equipment Request
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

1. CAT D5 Dozer – COST: $105,000 w/shipping
   JUSTIFICATION: This model is exactly like the NSB models, so students trained on it will be able to seamlessly move into their Borough jobs. Buying a used model is cost-effective. The Dozer will be used in at least 4 HEO classes per year, if not more. Right now we are limited in what we can offer because we do not have a Dozer; by purchasing this item, we would be able to offer more classes/trainings that use the Dozer and prepare students for the workforce.

2. CAT Simulator COST: $80,000 w/shipping
   JUSTIFICATION: The CAT Simulator can be used in almost all HEO classes, and it can present a variety of machines and scenarios for students to train on. It will never break down, it requires no maintenance or fuel, is flexible in how it can train, it doesn’t tear up the roads, and it mirrors exactly the type of equipment that the Borough uses in its own facilities.

3. Bus with Air Brakes – COST: $25,000
   JUSTIFICATION: This would be the exact type of bus that the school district uses so that students can train on it. We do not currently have a working bus.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Utqiagvik/Barrow, for use of all North Slope students whether they live in Utqiagvik or come to Utqiagvik for training.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CAT D5 Dozer COST: $105,000 w/shipping</td>
<td></td>
</tr>
<tr>
<td>2. CAT Simulator COST: $80,000 w/shipping</td>
<td></td>
</tr>
<tr>
<td>3. Bus with air brakes COST: $25,000</td>
<td></td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☑ No ☐ Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☐ No ☑ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

Yes, to accommodate students using this equipment prior to the Fall 2020 semester

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☐ Yes

If Yes, is it scheduled for replacement before 2025? ☑ No ☐ Yes

If No, explain why it should be considered out of sequence:

We have been borrowing items from the Borough for classes/trainings, which is ineffective in the long-run. The Dozer will be used in at least 4 HEO classes per year, if not more. Right now we are limited in what we can offer because we don’t have a Dozer; by purchasing this item, we would be able to offer more classes/trainings that use the Dozer and prepare students for the...
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   To adequately train our local workforce, we need to have the equipment that local employers—like the Borough—use.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   We have been very conservative with our equipment buys in the past (infrequent; used items; lots of in-house and some external maintenance to keep items running); now we have a need for some additional items to better serve our students, and, in turn, the local workforce.

   C. Indicate if this is a reoccurring upgrade or repair.

   Not reoccurring

   D. Detail outside funds being leveraged, if applicable.

   N/A

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

Requestor Name and Title: Justina Wilhelm, Acting President | Ilisagvik College

Signature:  
Digitally signed by Justina  
DN: cn=Justina, o, ou,  
email=justina.wilhelm@ilisagvik.edu, c=US  
Date: 2020.02.26 11:51:12 -09'00'

Date: 2.26.2020

Department Director Name:

Department Director Signature:  
Date:

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Atqasuk Heavy Equipment Replacement & Upgrade
LOCATION: Atqasuk

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-114
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $2,444,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Atqasuk Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank
CAT 140 Grader
CAT D8 Dozer

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village

   Atqasuk
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable Water Truck Peterbilt 1500 Gal SS tank</td>
<td>$275,000</td>
</tr>
<tr>
<td>CAT 140 Grader</td>
<td>$400,000</td>
</tr>
<tr>
<td>CAT D8 Dozer</td>
<td>$900,000</td>
</tr>
<tr>
<td>15% Contingency</td>
<td>$283,000</td>
</tr>
<tr>
<td>15% Admin</td>
<td>$283,000</td>
</tr>
<tr>
<td><strong>Total Cost</strong></td>
<td><strong>$2,444,000</strong></td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- [ ] No
- [x] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained, and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?

- [ ] No
- [x] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?

- [ ] No
- [x] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?

- [ ] No
- [x] Yes

If Yes, is it scheduled for replacement before 2025?

- [ ] No
- [x] Yes

If No, explain why it should be considered out of sequence.
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:
Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

| Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic |
| Signature: /s/ | Date: 02/27/20 |
| Department Director Name: Scott K. Danner, Department of Public Works Director |
| Department Director Signature: /s/ | Date: 3.3.20 |

Planning Department Use Only
Summary of PRC and Planning Commission discussion and recommendation.

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Kaktovik Heavy Equipment Replacement & Upgrade
LOCATION: Kaktovik

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Kaktovik Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - **Vehicles**: Indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - **Equipment**: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   Potable Water Truck Peterbilt single axle 1500 Gal SS tank
   CAT D8 Dozer
   Trash Truck Peterbilt 40 CU YD Tandem Frontload
   VOLVO L180 Loader

4. PROJECT LOCATION: If this request is for an area wide project, indicate what is proposed to be done by village.
   Kaktovik
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable Water Truck Peterbilt single axle 1500 Gal SS tank</td>
<td>$275,000</td>
</tr>
<tr>
<td>CAT DB Dozer 900,000 Freight $100,000</td>
<td></td>
</tr>
<tr>
<td>Trash Truck Peterbilt 40 CU YD Tandem Frontload $271,000 Freight $49,000</td>
<td></td>
</tr>
<tr>
<td>VOLVO L180 Loader $510,000 Freight $62,000</td>
<td></td>
</tr>
<tr>
<td>15% Contingency $332,000</td>
<td></td>
</tr>
<tr>
<td>15% Admin $332,000</td>
<td></td>
</tr>
<tr>
<td>Total Cost $2,872,000</td>
<td></td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- No
- Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?

- No
- Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR URFUND:

Is this a phased project or a follow-up to an existing CIP project?

- No
- Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?

- No
- Yes

If Yes, is it scheduled for replacement before 2025?

- No
- Yes

If No, explain why it should be considered out of sequence.
PROJECT NAME: Kaktovik Heavy Equipment Replacement & Upgrade
LOCATION: Kaktovik

10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   
   Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   
   This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ✗ No   □ Yes (If yes, include written verification)
   Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ✗ No   □ Yes (If yes, include written verification)
   Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ✗ No   □ Yes (If yes, include written verification)
   Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ✗ No   □ Yes (If yes, include written verification)
   Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No  ☒ Yes  (If yes, include written verification)
Explanation, if necessary:
Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

| Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic |
| Signature: [Signature] Date: 02/27/20 |
| Department Director Name: Scott K. Danner, Department of Public Works Director |
| Department Director Signature: [Signature] Date: 3.2.20 |

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Point Hope Heavy Equipment Replacement & Upgrade
LOCATION: Point Hope

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-116
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Point Hope Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   Potable Water Truck Peterbilt single axle 1500 Gal SS tank
   VOLVO A25 End Dump
   CAT CS56B Compactor
   CAT D8 Dozer
   CAT Grader 14
   CAT 430 Rubber Tired Backhoe

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Point Hope
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each vehicle and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable Water Truck Peterbilt single axle 1500 Gal SS tank</td>
<td>$275,000 Freight $41,000</td>
</tr>
<tr>
<td>VOLVO A25 End Dump</td>
<td>$383,000 Freight $28,000</td>
</tr>
<tr>
<td>CAT CS56B Compactor</td>
<td>$300,000 Freight $46,000</td>
</tr>
<tr>
<td>CAT D8 Dozer</td>
<td>$900,000 Freight $100,000</td>
</tr>
<tr>
<td>CAT Grader 14</td>
<td>$572,000 Freight $78,000</td>
</tr>
<tr>
<td>CAT 430 Rubber Tired Backhoe</td>
<td>$220,000 Freight $30,000</td>
</tr>
<tr>
<td>15% Contingency</td>
<td>$448,000</td>
</tr>
<tr>
<td>15% Admin</td>
<td>$448,000</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$3,869,000</td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☑ No ☒ Yes
If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UFPUND:
Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If yes, is it scheduled for replacement before 2025? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   This will improve services with less down time.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  \( \square \) No  \( \checkmark \) Yes (If yes, include written verification)

   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  \( \square \) No  \( \checkmark \) Yes (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  \( \square \) No  \( \checkmark \) Yes (If yes, include written verification)

   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  \( \square \) No  \( \checkmark \) Yes (If yes, include written verification)

   Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
</tr>
<tr>
<td>Date: 04/27/20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name: Scott K. Danner, Department of Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
</tr>
<tr>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Point Lay Heavy Equipment Replacement & Upgrade  
LOCATION: Point Lay

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES  

CIP VEHICLE AND EQUIPMENT REQUEST FORM  

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:  
1. Complete this form electronically.  
2. Email the completed PDF form to CIP@north-slope.org.  
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.  

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Point Lay Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.  
   • Equipment: be specific in describing the preferred equipment being requested. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.
   
   Potable Water Truck Peterbilt single axle 1500 Gal SS tank  
   CAT D6 dozer  
   Ditch Witch RT125  
   CAT 323 Excavator w/ Thumb

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Point Lay
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

- Potable Water Truck Peterbilt single axle 1500 Gal 55 tank $275,000 Freight $41,000
- CAT D6 dozer $620,000 Freight $73,000
- Ditch Witch RT125 $271,000 Freight $39,000
- CAT 323 Excavator w/ Thumb $330,000 Freight $70,000
- 15% Contingency $223,000
- 15% Admin $223,000
- Total Cost $2,165,000

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- [X] No  [ ] Yes

   If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

   Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  [X] No  [ ] Yes

   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

   Is this a phased project or a follow-up to an existing CIP project?  [X] No  [ ] Yes

   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

   Is this project included in the Borough’s Repair & Replacement Schedule?  [X] No  [ ] Yes

   If Yes, is it scheduled for replacement before 2025?  [X] No  [ ] Yes

   If No, explain why it should be considered out of sequence.
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This will improve services with less down time.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No    Yes  (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No    Yes  (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No    Yes  (If yes, include written verification)
      Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No    Yes  (If yes, include written verification)
      Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☑ Yes  (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

| Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic |
| Signature: [Signature] Date: 02/27/20 |
| Department Director Name: Scott K. Danner, Department of Public Works Director |
| Department Director Signature: [Signature] Date: 3-20 |

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Village Up Fund Heavy Equipment Major Repair
LOCATION: Villages

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-118
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

AMOUNT REQUESTED: $390,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works

2. PROJECT NAME: Village Up Fund Heavy Equipment Major Repair

3. PROJECT DESCRIPTION:
- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being requested. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Funds would be used to offset the cost for component failures that the operating budget would not be able to burden. Components failures are common with the aging equipment. Engines, transmissions and undercarriages are just some of the component failures that equipment maintenance deals with.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

Area wide villages to help offset the cost of component failure.
PROJECT NAME: Village Up Fund Heavy Equipment Major Repair
LOCATION: Villages

5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP FUND</td>
<td>$300,000.00</td>
</tr>
<tr>
<td>15% ADMIN COST</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>15% CONTINGENCY</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>TOTAL COST</td>
<td>$390,000.00</td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?
☑ No ☑ Yes
If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☐ Yes
If Yes, is it scheduled for replacement before 2025? ☑ No ☐ Yes
If No, explain why it should be considered out of sequence:
A. Please respond to the following questions:

B. Does the project address an immediate condition that will avoid failure of a vital

C. Does the project address an environmental condition that will without immediate action be verifiable and

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital

10. PROJECT JUSTIFICATION:

LOCATION: Village

NAME: Village Up Fund Heavy Equipment Major Repair
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   □ No  X Yes  (If yes, include written verification)
   Explanation, if necessary:
   It will reduce maintenance cost on the operating budget in the villages.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

   Requestor Name and Title: Robert Terzioski Lead Mechanic Shop II

   Signature: [Signature] Date: 02/27/20

   Department Director Name: Scott K. Danner, Department of Public Works Director

   Department Director Signature: [Signature] Date: 3.2.20

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Anaktuvuk Pass Heavy Equipment Replacement & Upgrade
LOCATION: Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-120
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works

2. PROJECT NAME: Anaktuvuk Pass Heavy Equipment Replacement & Upgrade

3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   Potable Water Truck Peterbilt single axle 1500 Gal SS tank
   CAT 966 Loader
   CAT Grader 140
   Trash Truck Peterbilt 40 CU YD Tandem Frontload

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Anaktuvuk Pass
5. **PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable Water Truck Peterbilt single axle 1500 Gal SS tank</td>
<td>$275,000 Freight $65,000</td>
</tr>
<tr>
<td>CAT 966 Loader</td>
<td>$393,000 Freight $180,000</td>
</tr>
<tr>
<td>CAT Grader 140</td>
<td>$380,000 Freight $160,000</td>
</tr>
<tr>
<td>Trash Truck Peterbilt 40 CU YD Tandem Frontload</td>
<td>$271,000 Freight $120,000</td>
</tr>
<tr>
<td>15% Contingency</td>
<td>$277,000</td>
</tr>
<tr>
<td>15% Admin</td>
<td>$277,000</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$2,398,000</td>
</tr>
</tbody>
</table>

6. **TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

- [ ] No
- [x] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**

- [x] No
- [ ] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?

- [x] No
- [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. **RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough’s Repair & Replacement Schedule?

- [ ] No
- [x] Yes

If Yes, is it scheduled for replacement before 2025?

- [ ] No
- [x] Yes

If No, explain why it should be considered out of sequence:

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Department of Planning and Community Services, Community Planning Division
Revised Vehicle and Equipment Request Form – June 2019

Page 2 of 4
PROJECT NAME: Anaktuvuk Pass Heavy Equipment Replacement & Upgrade
LOCATION: Anaktuvuk Pass

10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   
   Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   
   This will improve services with less down time.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ❌ No  ✔ Yes (If yes, include written verification)
   
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ❌ No  ✔ Yes (If yes, include written verification)
   
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ❌ No  ✔ Yes (If yes, include written verification)
   
   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ❌ No  ✔ Yes (If yes, include written verification)
   
   Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☒ Yes (If yes, include written verification)

Examination, if necessary:

Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.


13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.


14. REQUESTOR INFORMATION:

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic

Signature: [Signature] Date: 02/27/20

Department Director Name: Scott K. Danner, Department of Public Works Director

Department Director Signature: [Signature] Date: 3.2.20

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

Department of Planning and Community Services, Community Planning Division
Revised Vehicle and Equipment Request Form – June 2019

Page 4 of 4
PROJECT NAME: BRW BUS Warm Storage Facility
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-NEW-1 TYPE: New
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: $794,000
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BRW BUS Warm Storage Facility
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Design a warm storage building for storage of emergency vehicles and equipment. Re-assess the design recommended in the PAR to significantly reduce the construction costs. The recommended location of the facility remains on the east side of the Wastewater Treatment Plant.

This request if for the first phase of a 2-phase project. Phase I will cover design, and Phase II will cover construction.

This project may bare consideration as part of the ongoing consolidated facility in Utqiagvik.

4. PROJECT LOCATION:
Utqiagvik
PROJECT NAME: BRW BUS Warm Storage Facility  
LOCATION: Utqiaġvik

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Total this request for Phase 1: $793,100

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design/Professional Services</td>
<td>PAR, adjusted for 2020</td>
<td>$721,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$72,100</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$793,100</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $ 

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

   This request is for Phase I - Design. Phase II funding will be requested after design is complete.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   The intent of this request is to reduce anticipated construction costs for this needed facility. Phase II construction funding will not be known until design is complete.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
If Yes, is it scheduled for replacement before 2025? □ No □ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

A warm storage facility will provide much-needed storage for BUS equipment.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will expand facilities but will decrease the costs of maintaining a large number of vehicles and equipment that is currently stored outside.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a recurring upgrade.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☐ No ☒ Yes  If yes, indicate PAR name and date: 2013-04 BUS Warm Storage Facility
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td></td>
</tr>
<tr>
<td>Date: 3.2.20</td>
<td></td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Power Plant design Phase I
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-NEW-2
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Public Works / Power Generation & Distribution

AMOUNT REQUESTED: $2,000,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works / Power Generation & Distribution

2. PROJECT NAME: Wainwright Power Plant design Phase I

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Design Phase will address the following:
Upgrade the automated controls, cooling and exhaust systems; replace the Direct Digital Control System (DDC) with a programmable logic control system (PLC), and human machine interface panels (HMI); replace new motor control center (MCC) which allows variable frequency drive motors to communicate with the new PLC system; Facility expansion request to accommodate new cooling system to maximize efficiencies and decrease emissions other equipment upgrades and priorities to be established by Public Works/Power Generation & Distribution Division as the work processes.

Replace existing switchgear with new.

4. PROJECT LOCATION:
Wainwright
PROJECT NAME: Wainwright Power Plant design Phase I
LOCATION: Wainwright

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$2,000,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td>Power Plant Upgrade Design</td>
<td>Historical knowledge: KAK Power Plant Upgrades</td>
<td>$1,500,000.00</td>
</tr>
<tr>
<td>(Design, legal, other)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>10%</td>
<td>$200,000.00</td>
<td></td>
</tr>
<tr>
<td>(anticipated costs)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td></td>
<td>$300,000.00</td>
<td></td>
</tr>
<tr>
<td>(NSB project management)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Contingency</td>
<td></td>
<td>$</td>
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<tr>
<td>(if not included in other line items)</td>
<td>15%</td>
<td>$</td>
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<tr>
<td>Other Costs</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>(with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>$2,000,000.00</td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  □ No □ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project?  □ No □ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.
   Project could be phased: Phase I - Design, Phase II - Construction
B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   N/A
C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
   Phase I - $2,000,000.00
   Phase II - To Be Determined
PROJECT NAME: Wainwright Power Plant design Phase I
LOCATION: Wainwright

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   This project isn't scheduled for replacement in 2018 because this is a phased project and requires design to commence first

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       Wainwright's Power Plant is the oldest of the North Slope villages, requiring an entire upgrade throughout, in order to perform reliably, generating continuous power for the village, it's residents and facilities. These upgrades are sure to provide efficient operations with upgraded cooling and exhaust systems as well as decreasing emissions. Standardization of control systems wide would include this upgrade, increasing vendor supported parts/materials availability and decreasing variety of inventory for incompitable systems.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       N/A
    C. Indicate if this is a reoccurring upgrade or repair.
       Upgrade
    D. Detail outside funds being leveraged, if applicable.
       No outside funds are being leveraged

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes *(If yes, include written verification)*
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes *(If yes, include written verification)*
Explanation, if necessary:
This project will reduce maintenance costs by reducing engine failures which require immediate response of staff and operational funds for maintenance materials.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristopher Kolodziej, Power System Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

Department Director Name:

Department Director Signature

3.4.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
1. REQUESTING ENTITY: Police Department

2. PROJECT NAME: Condenser Room Temperature Controls Upgrade

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   The Borough has an A/C and Humidifier system installed in the Communications Equipment Room at the Police Department. This critical system is mandatory and a "must have" as it maintains the environment of the Communications Equipment Room. Equipment located in the equipment room is Radio System, the Vesta E911 call taking system, Voice Logging recorder system, Camera system and supporting equipment. It is critical to maintain the correct environment for these systems as excessive high or low temp can be damaging to this very important life saving equipment and also expensive equipment. The condenser unit is located in the Condensing unit room (the boiler room). It has been determined that the temperature of the boiler room needs to be maintained at temperatures between 60'and 80'. If the boiler room temperatures go out of this range, the AC system will shut down. I have contacted the manufacturer of this AC equipment and spoke several times with the Senior Engineer and have been told that this operating range is normal for this system. If Temperatures drop below 60' F, the system will shut down on low pressure. If room temperatures go above 80' the system will shut down on high pressure. We need a way to control the temperature in this condensing unit/Boiler room.

4. PROJECT LOCATION:

   This project will be located at the Police Department facility at 1068 Kiogak st. in Barrow.
PROJECT NAME: Condenser Room Temperature Controls Upgrade  
LOCATION:  

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>provision and installation of cooling exhaust fan and controls, and integrate into DDC system</td>
<td>vendor quote</td>
<td>$47,840.00</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>Administration (NSB project management)</td>
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<td></td>
<td>$</td>
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<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>$57408.00</td>
</tr>
<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☒ No ☒ Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.  
I would like to get this project completed before the summer months and hope a deficit spend can be executed.

8. PROJECT PHASING OR UPFUND:  
is this a phased project or a follow-up to an existing CIP project? ☒ No ☒ Yes  
If yes, indicate name and CIP project number:  
A. If this is a new request, indicate below whether this project could be phased and over how many years.  
| Project cannot be phased |

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.  

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Condenser Room Temperature Controls Upgrade

LOCATION:

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? [x] No [ ] Yes
   If Yes, is it scheduled for replacement before 2025? [ ] No [x] Yes
   If No, explain why it should be considered out of sequence:
   Police Department personnel have been dealing with this AC issue for years, it has finally been determined why we have been having issues with the AC. It has recently been determined that this AC system has been shutting down because of low or high temperatures in the condensing room.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       It is critical the the communications equipment located in the Communication Room be maintained at the proper temperature and humidity.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       This project will make it possible for the Communications Systems for the Borough to be in the proper operating environment and minimize the risk of a communications outage.
    C. Indicate if this is a reoccurring upgrade or repair.
       this will not be a reoccurring project
    D. Detail outside funds being leveraged, if applicable.
       None

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [ ] No [x] Yes (If yes, include written verification)
       Explanation, if necessary:
       It is critical that the Borough take a plan of action and correct this condition
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [x] No [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? [ ] No [x] Yes (If yes, include written verification)
       Explanation, if necessary:
       there is a possibility that without the proper communication systems in good working order, that the public is at risk.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No  ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
Vendor Quote

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
</tr>
<tr>
<td>Date:</td>
</tr>
</tbody>
</table>

Department Director Name: Jeffrey R. Brown
Department Director Signature: Jeffrey R. Brown
Date: 6FEB2020

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
Quality Controls, Inc.
P.O. Box 221461

Anchorage, AK 99522
Phone: (907) 868-7931 - Fax: (907) 349-1212

Customer # | Estimate Date | Estimate #
-------------|--------------|------------
1180         | 7/23/2019    | 602079     

Bill To:
North Slope Borough
PO Box 69
Barrow, AK 99723

Service Location:
Barrow Police Department
Barrow, AK

Contract Details
North Slope Borough, Barrow Police Department: This proposal is for the provision and installation of a ventilation fan and ductwork to provide cooling for the boiler room and equipment located in boiler room. This proposal includes:

Cutting and capping of glycol heating lines, and demolition of existing heating coil which tempers the combustion air entering the room (this coil is plugged and does not allow air through it);

Installation of new vent fan, dampers, ductwork and intake louver;

Installation of new electrical circuit and controls to provide power and control of new fan;

Integration of new points into existing control panel and modifying system graphics.

Subtotal: $47,840.00

Sales Tax: $0.00

Estimate Total: $47,840.00

Retainage held until job completion: 

Representative Signature  Date  Customer Signature  Date
PROJECT NAME: New AKP Public Works Building Replacement
LOCATION: Anaktuvuk Pass, Ak

NSP PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: New18-NEW-4
TYPE: NEW
DATE SUBMITTED: 3/10/2020
AMOUNT REQUESTED: $30,000,000
REQUESTING ENTITY: Department of Public Works
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Department of Public Works
2. PROJECT NAME: New AKP Public Works Building Replacement
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

AKP is in need of more storage space for equipment and office space for staff. Currently Public Works is housing Office staff inside the Itinerant Quarters and all Public Works employees meet at the O&M Shop for daily meetings. This Building would be in replacement of the USDW.

4. PROJECT LOCATION:
Barrow, Ak
**PROJECT NAME:** New AKP Public Works Building Replacement  
**LOCATION:** Anaktuvuk Pass, Ak

5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$10,000,000

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A/E Design Fee/Prof. Service</td>
<td>$3,000,000</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>$6,000,000</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10%</td>
<td>$1,000,000</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>10%</td>
<td>$1,000,000</td>
<td></td>
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<tr>
<td>Other Costs (with description)</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$10,000,000</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different)** $30,000,000

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** ☐ No ☑ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: New AKP Public Works Building Replacement
LOCATION: Anaktuvuk Pass, Ak

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? [x] No [ ] Yes
   If Yes, is it scheduled for replacement before 2025? [ ] No [x] Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [x] No [ ] Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [x] No [ ] Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? [x] No [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☑ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☑ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No ☑ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, Department of Public Works, RA&amp;S Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date: 3/10/20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/10/20</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation:

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Nui Pw's/Maintenance/Warm Storage Replacement  
LOCATION: Nuiqsut  

NSB PLANNING DEPARTMENT USE ONLY  
TEMPORARY/CIP PROJECT NUMBER: 18-NEW-5  
DATE SUBMITTED: 3/10/2020  
REQUESTING ENTITY: PUBLIC WORKS  

NEW  
AMOUNT REQUESTED: $10,996,000  
AMOUNT RECOMMENDED:  

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES  
CIP PROJECT REQUEST FORM  
Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:  
1. Complete this form electronically.  
2. Email the completed PDF form to CIP@north-slope.org.  
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: PUBLIC WORKS  
2. PROJECT NAME: Nui Pw's/Maintenance/Warm Storage Replacement  
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
   
   This Project includes the design (possibly us BGF Operations, or KAK/PIZ PW's building design) and construction of New Maintenance/Warm Storage Facility in Nuiqsut. This project includes the demolition of the existing USDW Shop and site remediation/Improvements. The facility will be in addition to the existing Heavy Duty Equipment Warm Storage Facility, and will incorporate space for airports snow removal equipment.

   a PAR request is beingSubmitter to analyze the feasibility of a NSB Multi Use facility, in which all NSB operating entitles could share one building. This may supersede the request.

4. PROJECT LOCATION:  
Nuiqsut
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$10,996,000.00

Cost determined from expenditures of the recently demolished USDW and newly designed & Constructed facility in Kaktovik, 18-064, with consideration of 20%

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Possibly utilize other NSB building design</td>
<td>Prior year’s estimate + 10%</td>
<td>$700,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Demo/site rem/construction</td>
<td>Prior year’s estimate + 10%</td>
<td>$8,800,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>Estimate 10% of construction</td>
<td>Prior year’s estimate + 10%</td>
<td>$880,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>Estimate</td>
<td>Prior year’s estimate + 10%</td>
<td>$616,000</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>Cost derived from similar project in Kaktovik + 10%</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$10,996,000</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?** ✗ No   □ Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ✗ No   □ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years. It’s not recommended that this project be phased. This facility is vital to the community, and time needed to replace should be minimized.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? [ ] No [ ] Yes
If Yes, is it scheduled for replacement before 2025? [ ] No [ ] Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
The substructure/floor of the existing facility has failed. An alternative is currently under restricted use. The demolition of the existing USDW facility will provide a location for a new Maintenance/Warm Storage Facility adjacent to the existing Heavy Duty Equipment Warm Storage. The proposed facility, which will be near the airport, will be near the airport, will include space for airport snow removal equipment to reduce costs of maintenance and repair of heavy equipment used to maintain vital services functions in Nuiqsut.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
O&M costs will be reduced by having a more efficient, safe, and multi-use storage facility. Warm Storage for the NSB and Airport snow removal equipment will extend the life of that equipment. The new facility will be constructed at the same location and will use the existing roadways, pad and utilities.

C. Indicate if this is a reoccurring upgrade or repair.
N/A

D. Detail outside funds being leveraged, if applicable.
It may be possible to seek FAA funding (as in other villages). When the facility is used for trucks or heavy equipment.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [ ] No [ ] Yes (If yes, include written verification)
Explanation, if necessary:
The facility sub-structure has failed. The equipment bay is currently not to be used for trucks and heavy equipment.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [ ] No [ ] Yes (If yes, include written verification)
Explanation, if necessary:
Copy not available.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? [ ] No [ ] Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Examination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No ☐ Yes (If yes, include written verification)

Examination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible.

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title:

Jack Frant, RA5 Division Manager

Signature:  

Date: 3/10/20

Department Director Name:

Date: 3/10/20

Department Director Signature:

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: New Light Duty Shop 1 and Heavy Equipment Shop 2
LOCATION: Barrow, Ak

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: New 18-NEW-6 TYPE: NEW
DATE SUBMITTED: 3/10/2020
REQUESTING ENTITY: Public Works

AMOUNT REQUESTED: $7,021,000
AMOUNT RECOMMENDED: $X\text{,}021,000$

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: New Light Duty Shop 1 and Heavy Equipment Shop 2
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Existing Shop 1 and 2 structure was built in the early 80's. The facility was built to accommodate the small number of the fleet that the NSB had during that time.

Since then, The NSB fleet has grown to three times more than it was in the 80's. The size of shop 1 and 2 has restricted our Operations and resulted in additional challenges in providing services to the NSB departments in an efficient manner.

Additionally, The structure was built with consideration to the available technology at the time. The technology available for Light Duty and Heavy Duty work now has significantly advanced since then. With a new state-of-the art facility, Light and heavy Duty work would be able to take full advantage of available technological advances in the field.

Lastly the current facilities does not have a wash reclamiation bay. This presents a safety health hazard to the public and could lead to a potential violation (NOV) from ADEC for not being compliant with the "Clean Water Act".

4. PROJECT LOCATION:

Barrow, Ak
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$6,382,094 for professional service for the Design and $638,209.40 for project management = $7,020,303.40

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>PAR Estimate</td>
<td>$198,700.00</td>
<td></td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A/E Design Fee/Prof. Service</td>
<td>PAR Estimate</td>
<td>$6382,094.00</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>PAR Estimate</td>
<td>$67,676,776.00</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10%</td>
<td>PAR Estimate</td>
<td>$6,382,094.00</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>This is included on PAR</td>
<td>PAR Estimate</td>
<td>$10,011,909.00</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL** $90,651,573

**TOTAL PROJECT COST (if different)** $

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**

- [ ] No
- [x] Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  
- [x] No
- [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☒ Yes
   If Yes, is it scheduled for replacement before 2025? ☒ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   Outdated structure; no longer a viable source of light duty or heavy equipment needs and a potentially unsafe work environment for employees. Facility was built in the early 80's as the NSB has grown.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   Old facility may be used in a different capacity with reduced operational costs. New facility will reduce over-all costs by an increase in efficiency, minimizing maintenance required and extending light and heavy duty equipment longevity.

   C. Indicate if this is a reoccurring upgrade or repair.
   Past funding has gone into maintaining building and replacing outdated components; such as boilers, roof, garage doors, flooring, etc.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☒ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☒ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☒ Yes (If yes, include written verification)
   Explanation, if necessary:
   Coastal erosion a future storms could threaten current infrastructure.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No  ☒ Yes  (If yes, include written verification)

Explaination, if necessary:

A risk assessment should be conducted prior to approval.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☒ Yes  (If yes, include written verification)

Explanation, if necessary:

Efficiency and modernizational upgrade will an should reduce future operating costs.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No  ☒ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jack Frantz, Deputy Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
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<tr>
<td>Date:</td>
<td>3/10/20</td>
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<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Director, Department of Public Works</th>
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<tbody>
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<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
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</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Administration and Finance MIS Division

2. PROJECT NAME: JD Edwards Upgrade Phase 4

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project will take place in Utqiagvik for the benefit of SA10 and all the North Slope Borough (NSB). Purpose: re-license two previously owned JD Edwards World Software suites from Oracle, analyze current NSB business processes and software installation (AS-IS), perform future needs analysis (TO-BE), perform mapping analysis between AS-IS and TO-BE (GAP), install missing JDE software modules, and provide training for newly installed modules that will reduce manual journal entries and accounting errors caused by non-centralized accounting systems.

When NSB reinstated a license for JDE Software, we did not re-license two software suites: Project Management and Manufacturing Management. Nor did NSB implement the following software modules: Accounts Receivables, Sales Order Management, Inventory Management, and Fixed Assets Management. The absence of these modules cause manual journal entries into the General Ledger (GL) plus lack of visibility on accounts receivable to NSB. Also, SA10, Planning, and Health has need for Real Estate Management (which is included in Project Management suite) to track and bill leases and other property transactions. Manufacturing Management would allow NSB to consolidate Inventory Management with work orders, and property, plant, and equipment maintenance. Which will provide better financial oversight to the Accounting Department for these valuable resources.

This will be accomplished in five Phases: Phase 1 has been completed with the purchase of new software licenses, AS-IS, TO-BE, and GAP analysis; Phase 2 is complete and Phase 3 is nearing completion with the implementation of Enterprise One (E1) software on April 22, 2019 and continuation of implementing additional business functions within E1; Phase 4 will continue address improvements to E1; and Phase 5 will finish the NSB desired business function implementations in E1.

4. PROJECT LOCATION:

Utqiagvik
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

| Professional Services: $500,000 |
| Administration: $62,000 |
| Contingency: $58,000 |
| Total: $620,000 |

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<td>Professional Services (Design, legal, other)</td>
<td>Software Implementations 4,800 hours at $250/hr</td>
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<td>$1,200,000</td>
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<td>Software Purchase</td>
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<td>Administration (NSB project management)</td>
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<td>$475,000</td>
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<td>Other Costs (with description)</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $3,450,000

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  □ No  □ Yes
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UFPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  □ No  □ Yes
   If yes, indicate name and CIP project number: 22.025 CIPM# 72-025
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
      Phase 1: $840,000; Phase 2 $750,000; Phase 3 $620,000; Phase 4 $620,000; Phase 5; $620,000
      Started 2015 and should be completed by 2025.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      2020 Phase 4: $620,000
      2023 Phase 5 $620,000
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
If Yes, is it scheduled for replacement before 2025? □ No □ Yes
If No, explain why it should be considered out of sequence:

This project was funded in 2015 as a software implementation of standard JD Edwards World functions to help standardize accounting processes, to reduce manual GL entries, to better control NSB’s finances and reports. This process is moving along with the most recent implementation of JD Edwards EnterpriseOne (E1).

10. PROJECT JustIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Currently over 700 manual GL entries occur each year because of departmental use of spreadsheets and other accounting software to record income and expenditures causing high cost with high probability of errors and adding additional costs to fix the errors. JDE E1 has the ability to substantially reduce manual GL entries, if planned modules are implemented. This project will provide the necessary funding for continuing licensing, implementation, and training of E1 modules.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will help increase the ability to collect revenues owed NSB and reduce costs associated with labor intensive accounting procedures.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

But we are under licensed for the number of NSB employees being employed by the Borough. This has been taken care of in PHASE 3.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:
Reduce costs by automating GL entries, reduce err within the accounting system, increase compliance with faster data entry and more systems reporting.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  □ No  □ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Rockie Nethercott, Systems Administrator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>岩井雅之</td>
</tr>
<tr>
<td>Date:</td>
<td>2/3/2020</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
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<td>Department Director Signature:</td>
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<td>Date:</td>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
<table>
<thead>
<tr>
<th>PARR INDEX</th>
<th>Location of Analysis</th>
<th>Project Analysis Reports Requested</th>
<th>Requesting Department</th>
<th>Date Submitted</th>
<th>Approved By PRC</th>
<th>PAR INDEX</th>
<th>Check Complete / Comments</th>
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<tr>
<td>2015-D</td>
<td>BRW</td>
<td>BRW Veterinary Clinic Renovation</td>
<td>HEALTH</td>
<td>3/5/2015</td>
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<td>2015-J</td>
<td>BRW</td>
<td>BGF Backup Generator and Electrical Upgrade</td>
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<td>3/4/2020</td>
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</table>
CIP PROJECT ANALYSIS (PAR) REQUEST FORM

CIP project requests over $200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan’s Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Fire Department

2. PROJECT NAME: Atqasuk Fire Station Replacement

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Atqasuk Fire Station. The current infrastructure is deteriorating, causing an unsafe workplace environment for our staff. The flooring in the Chief’s office is coming apart and the plywood is lifting throughout. The heating in the building is failing, causing our staff to have to work in extremely cold temperatures; the Air Handling Unit is inoperable, and has been since 2013; Boiler #2 has been down since 2018; zone valves throughout the facility which affect heating need to be replaced. Garage bays have do not have heat, and our staff are attempting to keep it warm using an electric heater. These are among the more serious issues, though there other items that need attention, including: broken windows taped shut by Public Works in the Chief’s office and laundry room; manual door pull on garage bay doors in operable, in the event the electric system fails; circulating pumps and air compressor in the boiler room inoperable. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.
4. PROJECT LOCATION:
   Atqasuk, Alaska.

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2024? ☐ Yes ☒ No
   If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

   C. Indicate if this is a reoccurring upgrade or repair.
      No.

   D. Detail outside funds being leveraged, if applicable.
      N/A.

7. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No  ☒ Yes  (If yes, include written verification)
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

Requestor Name and Title: Kamalei Hepa, Division Manager

Signature: ___________________________ Date: ___________________________

Department Director Name: Lloyd Kanayurak

Department Director Signature: ___________________________ Date: 2/19/2020

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
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PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

Instructions:
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1. REQUESTING ENTITY: North Slope Borough Fire Department

2. PROJECT NAME: Barrow & Browerville Fire Station HVAC System Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is designed to replace the existing HVAC system in the Barrow and Browerville Fire Stations. The existing controls in our facilities are very old and obsolete, and many of them non-functional, which is causing temperature and air quality problems in the working and living spaces throughout the building. Items in this project include: Upgrade of controls on AHU-1 and AHU-2; Upgrade on controls on Heating System; Upgrade on controls for 11 VAV boxes and 16 baseboard/radiant panel heating zones; Upgrade of controls for vehicle bays; Upgrade of controls for generator room cooling and boiler room cooling; Installation of new HVAC Web Server, which will be tied to the NSB network and allows for remote access management and monitoring, and remote alarm notifications; Installation of new cooling unit for the server room, which currently has a transfer fan but no mechanical cooling, causing server room computer equipment to overheat. The project also includes control system as-built and training.
4. PROJECT LOCATION:
Barrow and Browerville Fire Stations in Barrow, Alaska.

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? [ ] No [ ] Yes
If Yes, is it scheduled for replacement before 2024? [ ] Yes [ ] No
If No, explain why it should be considered out of sequence:
N/A

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
The importance of functioning controls & HVAC system in commercial buildings cannot be overemphasized. Fresh air is essential to the body and in commercial buildings, it helps produce productivity, reduces the number of pollutants, bacteria & odor in the facility. It also promotes energy efficiency & improves air quality. The failing heating & HVAC system in our facility has created a sub-standard work environment in regards to air quality and temperature controls.
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
C. Indicate if this is a reoccurring upgrade or repair.
No.
D. Detail outside funds being leveraged, if applicable.
N/A.

7. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [ ] No [ ] Yes (If yes, include written verification)
Explanation, if necessary:
B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [ ] No [ ] Yes (If yes, include written verification)
Explanation, if necessary:
Diagnosis of controls and HVAC system issues was done by a licensed professional.
PROJECT NAME: Barrow & Browerville Fire Station HVAC System Upgrades
LOCATION: Barrow

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ❌ No  ✔ Yes  (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ❌ No  ✔ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ❌ No  ✔ Yes  (If yes, include written verification)
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

Requestor Name and Title: Kamalei Hepa, Division Manager
Signature: Date:

Department Director Name: Lloyd Kanayurak
Department Director Signature: Date: 2/19/2020

Planning Department Use Only
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1. REQUESTING ENTITY: IHLC Department
2. PROJECT NAME: IHLC Floor Improvement
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Since the opening of the Heritage Center in 1999, there has been a lot of traffic and use of the center for meetings, conferences, dinners, parties and cultural gatherings. The main floor when you walk is worn out and looking like a well used garage. The carpet in the Multipurpose rooms is also beyond stain repair and needs to be changed out to another carpet or a commercial grade hard floor.

People visit the Heritage Center during the summer which are our busiest months and the Tundra Tours tourist program held 7 days a week, May 15th through September 15th. This is when the tourist can watch and participate in a demonstration of Aġġi and nalukataq. After the program, you will find many of the local artists selling their arts and crafts in the qargi area. Although the tourist season ends, the Heritage Center continues to get a broad range of tourist from all over the world. From our September 2019 Statistics, we had a total of 1645 visitors just for that month and the monthly numbers are give or take from that number.

The IHLC Education program also kicks in during the school year to host many different classes for fields trips from our local schools.
4. PROJECT LOCATION:
   Inupiat Heritage Center

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No   ☐ Yes
   If Yes, is it scheduled for replacement before 2025?   ☐ Yes   ☒ No
   If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      The Center has had no upgrades since its opening in 1999. We have a lot of wear and tear in many areas but our floor for safety purposes needs the most improvement and/or replacement.
   
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      There will be no increased operating or maintenance costs in this project. There will be more safety issues resolved.

   C. Indicate if this is a reoccurring upgrade or repair.
      No, once the upgrade and/or repair happens, the center should be good for another 20+ years with the current improvements needed.

   D. Detail outside funds being leveraged, if applicable.
      n/a

7. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No   ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No   ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
C. Does the project address an environmental condition that without immediate action is an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:
It could if our carpet in our Multipurpose room was ever tested.

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes (If yes, include written verification)
Explanation, if necessary:
It could help with a cut down on cleaning maintaining floor.

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
With this upgrade, tourist might talk about coming back to our beautified facility.

10. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title: Dorothy Edwardsen, Deputy Director</th>
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<tbody>
<tr>
<td>Signature: [Signature] Date: 1/27/2020</td>
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</tbody>
</table>
| Department Director Name: Colleen Atvak-Iken
| Department Director Signature: [Signature] Date: 01/27/2020 |

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
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1. REQUESTING ENTITY: Fire Department

2. PROJECT NAME: Nuiqsut Fire Station Replacement

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Nuiqsut Fire Station. The current infrastructure is rapidly deteriorating, causing an unsafe workplace environment for our staff. The flooring throughout the facility is failing; the original floors were covered with plywood in order to cover up asbestos, however the plywood is now starting to fall apart. The trench drain in one of our garage bays is not working, the sump pump is broken and will not drain; we are currently using a utility pump to empty the trench. The windows throughout the building are inoperable, some even screwed shut. The heating system is declining so the heat in the building is inconsistent, and our staff is normally working in cold temperatures. Exterior doors need to be replaced; the front entry door freezes shut during the winter, and the back exterior is not properly aligned with it’s frame, causing it to become stuck and making it difficult to open and close. The overhead heaters in the garage bays need to be replaced; the fans are constantly loud and noisy due to wear and tear over the years, and most don’t give out much heat; the overhead heater in our tank room only blows cold air. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.
PROJECT NAME: Nuiqsut Fire Station Replacement
LOCATION: Nuiqsut

4. PROJECT LOCATION:
Nuiqsut, Alaska.

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2024? ☐ Yes ☒ No
If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

   C. Indicate if this is a reoccurring upgrade or repair.
   ☒ No

   D. Detail outside funds being leveraged, if applicable.
   N/A.

7. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (if yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (if yes, include written verification)
   Explanation, if necessary:
C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No  ☒ Yes  (If yes, include written verification)
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:
Requestor Name and Title: Kamalei Hepa, Division Manager

<table>
<thead>
<tr>
<th>Signature: [Signature]</th>
<th>Date: 2/21/2020</th>
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Department Director Name: Lloyd Kanayurak

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Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT ANALYSIS (PAR) REQUEST FORM

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1. REQUESTING ENTITY: Fire Department

2. PROJECT NAME: Point Hope Fire Station Replacement

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Point Hope Fire Station. The current infrastructure is rapidly deteriorating, causing an unsafe workplace environment for our staff. The flooring throughout the facility is falling; there are metal screws protruding through floors in the garage bays, and the metal floors itself is bubbling up; restroom floor is ready to collapse from beneath, and our staff is having to carefully walk on the wood beams to ensure they do not fall through; the shower room floor is in the same condition; the training room floors are deteriorating and becoming uneven. All windows in the facility are currently inoperable; none of them open. The roof panels are also inadequate, and water continues to leak into the building. These are among the more serious issues, though there are a multitude of other things that need attention, including: inconsistent heating, interior & exterior doors/locks, garage bay door conditions falling and multiple panels need replacement, interior & exterior lighting is falling, minor mold issues were found in the shower room. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.
PROJECT NAME: Point Hope Fire Station Replacement
LOCATION: Point Hope

4. PROJECT LOCATION:
   Point Hope, Alaska.

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No    ☐ Yes
   If Yes, is it scheduled for replacement before 2024? ☐ Yes    ☐ No
   If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.
   
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

   C. Indicate if this is a reoccurring upgrade or repair.
      No.

   D. Detail outside funds being leveraged, if applicable.
      N/A.

7. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No    ☐ Yes  (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No    ☐ Yes  (If yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: Point Hope Fire Station Replacement  
LOCATION: Point Hope

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes (If yes, include written verification) 
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes (If yes, include written verification) 
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes (If yes, include written verification) 
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Trencher Storage Structure
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The request to identify for storage of the NSB Trenchor trencher in a headed indoors space or new fabric structure. The trencher is used for emergency response to W&S work and needs to be readily available for use in winter months. No space exists to house the trencher currently. Warm storage will also reduce wear and tear on the equipment that is not possible when stored outside.

Cold storage of the trencher has led to damage of the tracks and other components rendering the trencher not usable until repaired.
4. PROJECT LOCATION:

Wainwright

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes

If Yes, is it scheduled for replacement before 2025? ☐ Yes ☒ No

If No, explain why it should be considered out of sequence:

This PAR will protect an existing asset from repetitive damage.

6. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Storage of the trencher inside will allow for warm starts, and improved maintenance. The equipment will be available to meet the increased demands for repairs in Wainwright.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Depending on the recommendation of the PAR, facilities may remain the same or expand. Expansion would be additional O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

This would be a one time request.

D. Detail outside funds being leveraged, if applicable.

None.

7. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: Trencher Storage Structure
LOCATION: Wainwright

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☐ No  ☒ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

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1. REQUESTING ENTITY: Public Works Village Services

2. PROJECT NAME: Village Culvert Assessment

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   Topography changes over time due to melting and re-forming sub-surface ice features. Culverts which were originally effective and preventing ponding no longer work effectively, and the resulting ponded water accelerates these changes.

   This PAR will assess the culvert condition and placement in each identified village. The goal of this PAR will be to identify the top 5 - 8 culverts in need of replacement, relocation, or new installation for each village.

   Specific deliverables from this PAR should include:
   - a construction cost estimate per village of culvert replacement and relocation needs, accounting for materials already in village.
   - schematic plan view of each culvert with annotated existing end elevations, recommended future end elevations, and culvert sizes
   - culvert trench detail designed to reduce water movement in each trench

   The PAR should use existing topographical data to develop village drainage maps, with survey teams conducting site visits to gather more detailed information on each potential culvert installation/re-installation site.
PROJECT NAME: Village Culvert Assessment
LOCATION: ATQ, KAK, NUI, AIN

4. PROJECT LOCATION:
   ATQ, KAK, NUI, AIN

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2025? □ Yes □ No
   If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Many existing culverts are no longer effective at reducing ponding in the identified villages. This ponding degrades permafrost, creating substantial problems for building foundations, road infrastructure, and subsurface utilities. This project will provide a plan of attack to use the NSB’s internal resources to effectively reduce this problem.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This will expand drainage infrastructure, but should reduce the cost of future major repairs to roads, facilities, and utilities.
   C. Indicate if this is a reoccurring upgrade or repair.
      This should reoccur every 5 - 10 years to address changing drainage topography.
   D. Detail outside funds being leveraged, if applicable.
      N/A.

7. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (if yes, include written verification)
      Explanation, if necessary:
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (if yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: Village Culvert Assessment
LOCATION: ATQ, KAK, NUI, AIN

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  [ ] No  [x] Yes  (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  [ ] No  [x] Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  [ ] No  [x] Yes  (If yes, include written verification)
Explanation, if necessary:

Several utility failures have been the result of permafrost degradation from in-village ponding. The cost of several major repairs is included to quantify some potential savings.

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Ken Slatton, Village Services Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3.2.20</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Fire Station Replacement
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
PAR REQUEST NUMBER: PAR 2020-H
DATE SUBMITTED: 3/4/2020
REQUESTING ENTITY: Fire Department
APPROVED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT ANALYSIS (PAR) REQUEST FORM

CIP project requests over $200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan’s Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Fire Department
2. PROJECT NAME: Wainwright Fire Station Replacement
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Wainwright Fire Station. The current infrastructure is rapidly deteriorating, causing an unsafe workplace environment for our staff. The flooring throughout the facility is failing; the floors in the garage bays are shifting and uneven; flooring in the Chief’s office is lifting up and tearing apart, with large holes in the flooring; the training room floors are deteriorating and becoming uneven, and there are holes in the area that staff normally sit. The trench drain in on of our garage bays is not working, the sump pump is broken and will not drain. There is a intermittent glycol leak in the Chief’s office; our staff has to keep an oil pan to catch the leak when it starts and keep emptying it. This has been an ongoing issue for over two years. The Air Handling Unit is not working; all exhaust tubes are either missing or torn. The heating system is declining so the heat in the building is inconsistent, and our staff is normally working in cold temperatures. The Fire Station is currently frozen and there is no running water. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.
PROJECT NAME: Wainwright Fire Station Replacement
LOCATION: Wainwright

4. PROJECT LOCATION:
Wainwright, Alaska.

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2024? ☒ Yes ☐ No
If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

C. Indicate if this is a reoccurring upgrade or repair.
No.

D. Detail outside funds being leveraged, if applicable.
N/A.

7. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
PROJECT NAME: Wainwright Fire Station Replacement
LOCATION: Wainwright

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

Requestor Name and Title: Kamalei Hepa, Division Manager

Signature: ___________________________ Date: ___________________________

Department Director Name: Lloyd Kanayurak

Department Director Signature: ___________________________ Date: 2/14/2020

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)