FINAL NOTICE OF A PROPOSED ACTIVITY IN A FLOODPLAIN

Pursuant to Executive Order 11988, *Floodplain Management*, the United States Department of the Navy (Navy) gives notice that the Navy has conducted an evaluation of a Proposed Action which involves construction in a floodplain to determine the potential effects that its activity in the floodplain would have on the human environment. The Navy identified that there are no practicable alternatives to locating the action in the floodplain and that the Proposed Action includes all practicable measures to minimize harm to the floodplain environment.

The proposed action is to complete repairs to the hurricane damaged Fuel Barge Pier and Barge Shack located on NAS Pensacola, in Escambia County, Florida. The project will include selective demolition and repair work on various parts of the facilities to provide safe facilities for fuel delivery operations in support of the military flight training mission. For the Barge Pier, this project will include replacement of the electrical distribution and lighting systems for the pier, plumbing replacement and repair work for the emergency eyewash station, and road repairs and upgrades. For the Barge Shack, this project will include roof, window, and HVAC replacement. In addition, a temporary contractor trailer and laydown area may be placed onsite during the extent of the project. Additional details of the proposed action are included in the attached Record of Categorical Exclusion.

Interested parties may submit written comments no later than 5:00 PM Central Time on August 19, 2021 by email to joelle.odaniellopez@navy.mil or by mail postmarked no later than August 19, 2021 to:

Naval Air Station Pensacola
Joelle O’Daniel-Lopez, NEPA Program Manager
310 John Towers Road, Building 3560
Pensacola, FL 32508
United States Navy
Record of Categorical Exclusion For
DR Repairs to Pier 1889 and Shack 1993,
Naval Air Station Pensacola,
Pensacola, Escambia County, Florida

Ref: (a) National Environmental Policy Act (NEPA) of 1969, 42
    USC 4321-4347
(b) Council on Environmental Quality Regulations for
    Implementing NEPA, 40 CFR 1500-1508
(c) Policies and Responsibilities for Implementation of the
    National Environmental Policy Act within the Department
    of the Navy, 32 CFR 775
(d) OPNAV Manual M-5090.1

Encl: (1) Project Environmental Review Sheet (PERS) form
(2) Design Review Package
(3) NASP Floodplain Public Notice
(4) Refrigerant Tracking Forms

1. Introduction: This Record of Categorical Exclusion (RCE),
   prepared in accordance with references (a) through (d), addresses
   the environmental effects and impacts related to repairs at
   facilities 1889 and 1993 of Naval Air Station Pensacola, Florida.
   A categorical exclusion (CATEX) is defined as “[a] published
   category of actions that do not individually or cumulatively have a
   significant impact on the human environment under normal
   circumstances, and, therefore, do not require either an
   environmental assessment or an environmental impact statement.”

2. Proposed Action: The proposed action is to provide new roof
   replacement, window replacement, and explosion proof HVAC wall unit
   for the Barge Shack. The Barge Pier repair includes replace
   exterior lighting along with other exterior appurtenances, road
   repairs and upgrades.

3. Applicable Exclusion: This action falls under Categorical
   Exclusion 8 of 32 CFR 775, “Routine repair and maintenance of
   buildings, facilities, vessels, aircraft, ranges, and equipment
   associated with existing operations and activities (e.g., localized
   pest management activities, minor erosion control measures,
   painting, refitting, general building/structural repair,
   landscaping, or grounds maintenance).”
4. **Summary of Environmental Impacts:** Please utilize Sea Turtle friendly lighting/shielding on the poles being installed in the project. Examples of these types of fixtures are in the attached word document and recommended by the US Fish and Wildlife Service. Contact Natural Resources for additional information, if needed. The Notice of Demolition or Asbestos Renovation Form #dep62_257_900(1) is required and must be postmarked or received at least 10 working days before the project start date. Submit the notice to the appropriate DEP district office or local air program office. Standard heavy equipment will be used for demolition during this project. Contact the Asbestos Program Manager at 850-452-2322 for additional information if needed. Ozone Depleting Substances must be recaptured in conformance with Clean Air Act; contractor is responsible for air emission record keeping. Contractor must use the attached Refrigerant Tracking Form to list all refrigerant added, recovered, reclaimed, and/or recycled. All recovered refrigerant must be turned in to the government; contractors are responsible for providing the refrigerant recovery cylinders to be turned in. A copy of the completed Refrigerant Tracking Form must be provided to the PWD Environmental Department at completion of work. Contact the Air Program Manager at 850-452-9349 for additional information, if needed. 40 CFR 112 requires secondary containment and overfill protection for every fuel/oil tank or container with at least 55-gallon capacity. Please ensure secondary containment is provided for all hazardous materials maintained on-site. Use drip pans during transfer operations; adequate absorbent material must be onsite to clean up any spills and prevent releases to the environment. Cover tanks and drip pans during inclement weather and provide procedures and equipment to prevent overfilling of tanks. Contact the Spill Program Manager at 850-452-9349 for additional information, if needed. All excavations will require a NAS Pensacola Excavation Permit per NASPNCCLA INSTRUCTION 11010.3B. Contact the Navy Archaeologist at 850-452-2055 for additional information, if needed.

The Proposed Action is located in a floodplain because the existing structures are located in a floodplain. The Proposed Action needs to be located in the floodplain because relocation of the structures is not practicable. Implementation of the Proposed Action would not affect flood frequency or severity because there would be no construction of structures that would increase the potential for an increased amount of flood waters, and all construction actions would be in compliance with applicable State and local flood protection standards.

Due to the Proposed Action being implemented in floodplain areas, Executive Order 11988 requires the Navy to provide a public notice of the Proposed Action. A public notice was issued from 6 May 2021 to 8 June 21. The public notice was shown on the NASP Facebook page and the NASP CNIC webpage (Enclosure 3).
No comments were received from the public during this period.

Therefore, based on this environmental analysis of the proposed action, the Navy has determined this action would not:

- Adversely affect public health or safety;
- Involve effects on the human environment that are highly uncertain, involve unique or unknown risks, or which are scientifically controversial;
- Establish precedents or make decisions in principle for future actions that have the potential for significant impacts;
- Threaten a violation of Federal, State, or local environmental laws applicable to the Department of the Navy; or
- Involve an action that may:
  - Have more than an insignificant or discountable effect on federally protected species under the Endangered Species Act or have impacts that would rise to the level of requiring an Incidental Take Authorization under the Marine Mammal Protection Act irrespective of whether one is procured;
  - Have an adverse effect on coral reefs or on federally designated wilderness areas, wildlife refuges, marine sanctuaries and monuments, or parklands;
  - Adversely affect the size, function, or biological value of wetlands and is not covered by a general (nationwide, regional, or state) permit;
  - Have an adverse effect on archaeological resources or resources listed or determined to be eligible for listing on the National Register of Historic Places (including, but not limited to, ships, aircraft, vessels, and equipment) where compliance with Section 106 of the National Historic Preservation Act has not been resolved through an agreement executed between the Department of the Navy and the appropriate historic preservation office and other appropriate consulting parties; or
  - Result in an uncontrolled or unpermitted release of hazardous substances or require a conformity determination under standards in 40 CFR part 93, subpart B (the Clean Air Act General Conformity Rule).

5. Record Keeping: This Record of CATEX should be retained in command files for seven years and made available for review during environmental quality assessments. RCEs relying on categorical exclusions #43 and #44 must be uploaded to the OPNAV (N45) Environmental Planning Library Web site per section 10-3.7c(1)(b)4 of Reference (d).
6. Conclusion: The undersigned finds that the proposed action is within the scope of CATEX 8 and none of the exclusions from reliance on a CATEX apply in this case. Therefore, the proposed action is excluded from the requirement for further NEPA analysis. In accordance with Executive Order 11988, Floodplain Management, the Navy finds there is no other practicable alternative to implementing the Proposed Action within the floodplain and that the Proposed Action includes all practicable measures to minimize harm to the floodplain environment.

Approved by:

JAMES J. KANE, JR.
Deputy Public Works Officer
Naval Air Station Pensacola
By direction

7/28/2021
# PROJECT ENVIRONMENTAL REVIEW SHEET

**Project Name:** DR - Repairs to Pier 1889 and Shack 1993  
**Date:** 2/23/21

## 1. Natural Resources

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
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1. **Does project affect flora?**
   - Yes
   - No

2. **Does project affect fauna?**
   - Yes
   - No

3. **Does project affect Bird-Aircraft Strike Hazards (BASH)?**
   - Yes
   - No

4. **Does project affect erosion?**
   - Yes
   - No

## 2. Jurisdictional Wetlands or Other Surface Waters [CWA 404(b)(1), E.O. 11990]

- Project is sited in a jurisdictional wetland. See section 13 for required permits.
- Project is not sited in a jurisdictional wetland.

**Provided public notice per E.O. 11990 of proposed action for projects with jurisdictional wetlands prior to RCE signature. The RCE Conclusion Section must include a concise Finding of No Practicable Alternative (FONPA) statement.**

## 3. Flood Plains (E.O. 11988)

- Project is sited in a 1-percent-annual-chance flood. See section 13 for required permits.
- Project is not sited in a 1-percent-annual-chance flood (formerly known as the 100-year flood or base flood.

**Provided public notice per E.O. 11988 of proposed action for projects located within flood plains prior to RCE signature. The RCE Conclusion Section must include a concise Finding of No Practicable Alternative (FONPA) statement.**

## 4. Coastal Zone Management Act (15 CFR 930)

- Project is located within the Coastal Zone.
- Project is not located within the Coastal Zone.

**Project is not located in the coastal zone, but has potential to effect coastal uses or resources within the coastal zone (e.g., runoff, emissions, protected species, historic resources, etc.).**

**A Coastal Consistency Determination was submitted to the state coastal management program for the project on ___/___/____, (at least 90 days before final approval of the activity, i.e., signed RCE).**

**A Negative Determination was submitted to the state coastal management program for the project on ___/___/____, (at least 90 days before final approval of the activity, i.e., signed RCE).**

**Concurrence from the state coastal management program on either the Coastal Consistency Determination or Negative Determination was received on ___/___/____.**

## 5. Threatened and Endangered Species

- Project has potential for affecting threatened or endangered species or federally designated critical habitats.
- Project has no potential for affecting threatened or endangered species or federally designated critical habitats.

**Biological Evaluation/Assessment is required. Consultation concluded with a concurrence received on ___/___/____.**
# PROJECT ENVIRONMENTAL REVIEW SHEET

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## 6. Essential Fish Habitat
- [X] Project does not have potential to affect essential fish habitat.
- [ ] An EFH Assessment was submitted to NMFS on ___/___/____. Consultation concluded with a concurrence received on ___/___/____.

## 7. Cultural Resources
- [ ] Cultural Resources Subject Matter Expert (CR SME) confirms that Project has the potential to affect historic properties. SHPO consultation/concurrence required.
- [X] CR SME concludes that Project has no potential to affect historic properties. SHPO consultation is not required.
- [ ] CR SME confirms that Project Area of Potential Effects (APE) has been surveyed and no historic properties were identified. SHPO consultation/concurrence required.
- [ ] CR SME confirms that Project will not incur adverse effects on historic properties identified in the APE. SHPO consultation/concurrence required.
- [ ] CR SME confirms that Project will incur an adverse effect on historic properties identified in the APE. SHPO consultation/concurrence required.
- [ ] CR SME confirms that Project will affect sites of interest to federally recognized Indian tribes. Appropriate tribal consultation required.
- [ ] CR SME confirms that Section 106 consultation concluded with a concurrence received on ___/___/____.

## 8. Water, Wastewater and Stormwater
### 8a. Water:
- [X] Implementation of the Proposed Action will not affect water.
- [ ] Construction permit required for extension of water system. See section 13.
- [ ] Backflow preventer(s) required. Must be field tested by licensed inspector upon installation.
- [ ] Sprinkler system must have rain sensor device.
- [ ] Well drilling/mod/abandonment must be conducted by a licensed contractor. Permit required. (See Section 13.)
- [X] Other: Ensure satisfactory bacteriological survey is completed prior to putting any water service back into operation after repairs per Florida Administrative Code 62-555.

### 8b. Wastewater:
- [X] Implementation of the Proposed Action will not affect wastewater.
- [ ] Construction permit required to connect to collection system. See section 13.
- [ ] No permit required.
- [ ] Other: _________________________________________________________

### 8c. Stormwater:
- [X] Implementation of the Proposed Action will not affect stormwater.
- [ ] Site included in station stormwater master plan; permit required but may access existing stormwater system.
- [ ] NPDES 5-acre site; construction contractor must obtain permit and implement Stormwater Pollution Prevention Plan (CWA Section 402). See section 13.
- [ ] Notice of Intent/Notice of Termination required.
- [ ] Upon completion site will be included in station Stormwater Pollution Prevention Plan
- [X] Other: Erosion control measures in place and/or dust control measures whenever earth is exposed.
# PROJECT ENVIRONMENTAL REVIEW SHEET

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- Other: Power wash runoff must not enter storm drains. Avoid power washing with soap or chemicals.
- Other: Must submit Stormwater Management Plan for approval before commencing.
- Other: __________________________________________________________________________

9. Installation Restoration Program (IRP)/Leaking Petroleum Storage Tank (LPST)

- Facility is on an IRP/LPST site.
- Facility is sited near an IRP/LPST site. Approximately _______ feet away.
- Facility is not sited on or near an IRP/LPST site.
- The nature of the site contamination does not preclude the type of construction activity proposed.
- Land Use Restrictions are in effect.
  - The proposed facility is acceptable land use.
  - The proposed facility is not acceptable land use.
- There is a Compliance Agreement associated with this site.
- A Remedial Investigation/Feasibility Study &/or Affected Property Assessment Report was completed on ____/____/____, to accurately delineate the aerial extent of the contamination.

The following activities must be coordinated with the IRP Manager/Navy: excavation, sampling, and 40-hour H&S training.

10. Air Pollutants

- Will be generated by implementation of the Proposed Action.
  - Request for permit determination is required.
  - Only de minimus air effects are expected (identify sources in RCE).
- Will not be generated by implementation of the Proposed Action.
- Conformity applicability analysis is not required.
- Conformity applicability analysis is required. See section 13.
- Construction Permit for new air emissions source is not required.
- Construction Permit for new air emissions source is required. See section 13.
- Ozone Depleting Substance must be recaptured in conformance with Clean Air Act
- Contractor is responsible for air emission record keeping.
PROJECT ENVIRONMENTAL REVIEW SHEET

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### 11. Hazardous Wastes

- **Will implementation of the Proposed Action generate any wastes?**
  - Yes [X] No

Hazardous waste generation and disposal must be coordinated with the Station HW Manager.

#### 11a. Asbestos:
- **UNKNOWN**
  - Present: (See attached Asbestos Survey Certification form.)
  - [X] Need asbestos survey.
  - Department of Health Notification Required
  - Contractor is responsible for all Notification fees and disposal costs.

All asbestos work will be done by personnel who hold a license issued by the appropriate regulatory authority.

#### 11b. Lead Based Paint:
- **Present:** (See attached Lead Survey Certification form.)
- [X] Need lead survey.
- Survey completed on ______________.

#### 11c. Polychlorinated biphenyls (PCBs):
- **Present:** See IR Affected Property Assessment Report
- [X] Not present.

Other known hazardous or toxic substances and pollutants (e.g. contaminated soils):
- [X] Not present.
- Present: See IR Affected Property Assessment Report

### 12. Solid Wastes

- Solid waste disposal must be coordinated with Solid Waste Manager.
- **Will work being performed on the project generate any nonhazardous waste?**
  - Yes [X] No

- Construction and Demolition debris? [X] Yes No
- Recyclables? [X] Yes No (All recyclable quantities must be reported/submitted in tons to SWM)

### 13. Environmental Permits

- The following permits are required prior to construction:
  - Army Corps of Engineers Permit for wetland impacts.
  - Construction permit required for extension of potable water system per ____________
  - Construction permit required to connect to sanitary collection system per ____________
  - Well drilling/modification/abandonment Permit required per ____________ Work must be performed by a licensed contractor.
  - NPDES 5-acre site; construction contractor must obtain permit and implement Stormwater Pollution Prevention Plan.
  - Construction permit for new air emissions source.
  - [X] Dig permit required per NASPNCCLA INSTRUCTION 11010.3B.
## PROJECT ENVIRONMENTAL REVIEW SHEET

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<td><em>Other Permits:</em>_</td>
<td>__No permits are required.</td>
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### 14. Extraordinary Circumstances

Were one or more extraordinary circumstances of 32 CFR 775.6(e)(1) present and a consideration for this proposed action?

__Yes*   _X_ No

*If yes, notify CNRSE Regional NEPA Coordinator immediately.

### 15. Comments:

NR: Threatened and Endangered Species: Please utilize Sea Turtle friendly lighting/shielding on the poles being installed in the project. Examples of these types of fixtures are in the attached word document and recommended by the US Fish and Wildlife Service. Contact Natural Resources for additional information if needed.

10. Air Pollutants: The Notice of Demolition or Asbestos Renovation Form #dep62_257_900(1) is required and must be postmarked or received at least 10 working days before the project start date. Submit the notice to the appropriate DEP district office or local air program office. Standard heavy equipment will be used for demolition during this project. Contact the Asbestos Program Manager at 850-452-2322 for additional information if needed.

10. Air Pollutants: Ozone Depleting Substances must be recaptured in conformance with Clean Air Act; contractor is responsible for air emission record keeping. Contractor must use the attached Refrigerant Tracking Form to list all refrigerant added, recovered, reclaimed, and/or recycled. All recovered refrigerant must be turned in to the government, contractors are responsible for providing the refrigerant recovery cylinders to be turned in. A copy of the completed Refrigerant Tracking Form must be provided to the PWD Environmental Department at completion of work. Contact the Air Program Manager at 850-452-9349 for additional information if needed.

Spill Prevention: 40 CFR 112 requires secondary containment and overfill protection for every fuel/oil tank or container with at least 55-gallon capacity. Please ensure secondary containment is provided for all hazardous materials maintained on-site. Use drip pans during transfer operations; adequate absorbent material must be onsite to clean up any spills and prevent releases to the environment. Cover tanks and drip pans during inclement weather and provide procedures and equipment to prevent overfilling of tanks. Contact the Spill Program Manager at 850-452-9349 for additional information if needed.

Environmental Permits: All excavations will require a NAS Pensacola Excavation Permit per NASPNCLA INSTRUCTION 11010.3B. Contact the Navy Archaeologist at 850-452-2055 for additional information, if needed.
**PROJECT ENVIRONMENTAL REVIEW SHEET**

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16. If the proposed action does not require a documented Record of Categorical Exclusion (RCE), complete the following:

The proposed action falls under CATEX _____ and does not require a formally documented RCE, per CNRSEINST 5090.1B (4)(c).

17. Are multiple CATEXs being applied to this proposed action? **Yes**  **X** No

Please note the use of multiple CATEXs for a proposed action should be the exception, not the rule. NAVFACSE NEPA Core should also be engaged to ensure consistency across the Region. If it has been determined the use of multiple categorical exclusions (typically no more than 2) are appropriate for the proposed action, please revise the conclusion language of Section 6 of the RCE to the following:

**Conclusion:** The undersigned finds that the proposed action is within the scope of CATEX XX and CATEX XX, and none of the exclusions from reliance on a CATEX apply in this case. Regarding the use of multiple CATEXs for this proposed action, the undersigned also finds that the proposed action has not been improperly of segmented to meet the definition a CATEX; that the proposed action is not connected to other actions with potentially significant impacts; is not related to other actions with individually insignificant but cumulatively significant impacts; and, would not irreversibly commit the Navy to one large action. Therefore, the proposed action is excluded from the requirement for further NEPA analysis.

18. Per NRSEINST 5090.2B, please submit complete copies of all signed RCEs with enclosures to the CNRSE Regional NEPA Coordinator within 14 calendar days of signature, in a single pdf file.

<table>
<thead>
<tr>
<th>Environmental Division Director</th>
<th>Michael Keethler</th>
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<tbody>
<tr>
<td>Public Works Department, Pensacola</td>
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<tr>
<td>PHONE: (850) 452-2114</td>
<td></td>
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<tr>
<td>FAX: (850) 452-2893</td>
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<tr>
<th>Signature: KEETLERMICHAELN</th>
<th>06/23/2021</th>
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<td>Date: 06/23/2021 15:42:00 0070F</td>
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Environmental Reviewers:

Name/Media/Date: Anna E. Lizana / NR / 23 Feb 21

Name/Media/Date: Darrell L. Wilson / Air-SPCC / 23 Feb 21

Name/Media/Date: Robert Wilkins / Haz Waste / 23 Feb 21

Name/Media/Date: Thomas L. Archie / IR / 24 Feb 21

Name/Media/Date: Carrie Williams-Hannah / Cultural Resources / 8 Mar 21

Name/Media/Date: Joelle O'Daniel-Lopez / Water Quality & NEPA / 23 June 2021

Name/Media/Date:                    

**PERS Form rev May 2020**  **Enclosure (2)**
DEPARTMENT OF DEFENSE  
DEPARTMENT OF THE NAVY  

EARLY NOTICE AND PUBLIC REVIEW OF A PROPOSED ACTIVITY IN A FLOODPLAIN

Pursuant to Executive Order 11988, *Floodplain Management*, the United States Department of the Navy (Navy) gives notice that the Navy is conducting an evaluation of a proposed action which may involve construction in a floodplain to determine the potential effects that its activity in the floodplain would have on the human environment. The Navy will be identifying and evaluating practicable alternatives to locating the action in the floodplain and the potential impacts on the floodplain from the proposed action, as required by Executive Order 11988.

Naval Air Station (NAS) Pensacola has been recovering from the effects of Hurricane Sally since landfall occurred on September 16, 2020. The proposed project is to complete repairs to the hurricane damaged Fuel Barge Pier and Barge Shack located on NAS Pensacola, in Escambia County, Florida. The project will include selective demolition and repair work on various parts of the facilities. As required by EO 11988, a more detailed description of the proposed action is available below.

There are three primary purposes for this notice. First, people who may be affected by activities in floodplain and wetlands and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative sites outside of the floodplain and wetlands, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about floodplain and wetlands can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in floodplain and wetlands, it must inform those who may be put at greater or continued risk.

Interested parties may submit written comments no later than 5:00 PM Central Time on June 8, 2021 by email to Joelle.odaniellopez@navy.mil or by mail postmarked no later than June 8, 2021 to:

Naval Air Station Pensacola  
Joelle O’Daniel-Lopez, NEPA Program Manager,  
310 John Towers Road  
Pensacola, FL 32508
PROJECT DESCRIPTION

Naval Air Station (NAS) Pensacola has been recovering from the effects of Hurricane Sally since landfall occurred on September 16, 2020. The proposed project is to complete repairs to the hurricane damaged Fuel Barge Pier and Barge Shack located on NAS Pensacola, in Escambia County, Florida. The project will include selective demolition and repair work on various parts of the facilities. The purpose of the Proposed Action is to provide safe facilities for fuel delivery operations in support of the military flight training mission. The Proposed Action is needed because Hurricane Sally caused significant damage to the Barge Pier and Barge Shack when the hurricane made landfall in September 2020.

NAS Pensacola aviation fuel deliveries are made from the Barge Pier by pipeline to the Fuel Farm, located one half mile north of the Barge Pier. The Barge Shack provides office space in support of fueling activities. The Barge Pier and the Barge Shack are in need of repairs due to damage caused by Hurricane Sally in September 2020. For the Barge Pier, this project will include replacement of the electrical distribution and lighting systems for the pier, plumbing replacement and repair work for the emergency eyewash station, and road repairs and upgrades. For the Barge Shack, this project will include roof, window, and HVAC replacement. In addition, a temporary contractor trailer and laydown area may be placed onsite during the extent of the project.

The Navy is proposing the action in a floodplain because of the close proximity to Pensacola Bay. The current location for the Fuel Barge Pier allows access for fuel barges to deliver fuel to NAS Pensacola in support of the military flight training mission. The location of the Barge Shack allows for a manned office space during scheduled deliveries. To construct a new building outside of the floodplain would defeat the whole purpose of the building and would be constructed at much greater economic and environmental costs. This project will ensure that military flight training mission requirements are met through continued fueling operations.

Interested parties may submit written comments no later than 5:00 PM Central Time on June 8, 2021 by email to joelle.odaniellopez@navy.mil or by mail postmarked no later than June 8, 2021 to:

Naval Air Station Pensacola
Joelle O’Daniel-Lopez, NEPA Program Manager,
310 John Towers Road
Pensacola, FL 32508
Appliance Service Report: 50 lbs or greater

| 1. Work Order # __________________________ | Date __________________________ |
| Company Performing Work: __________________________ |

Note: Owners of appliances with charges of 50 pounds or greater are required to repair substantial leaks. A 30 percent annual leak rate is established for the industrial process refrigeration equipment, 20 percent for commercial refrigeration equipment, and 10 percent for air conditioning systems as the trigger for requiring repairs.

Leaks found on appliances containing at least 50 pounds of refrigerant must be reported to HVAC Supervisor or site Environmental Manager Immediately

2. Equipment Description:

| 3. Date Leak Reported: __________________________ | Check if Leak repaired same day: [ ] |
| Annual Leak Rate (%): __________________________ (only for appliances with charges greater than 50 lbs)² |
| Date Leak Repaired (if not repaired the same day): __________________________ |
| Date of Initial Leak Verification test¹: __________________________ (within 30 day repair period) |
| Date of Leak Follow up verification test: __________________________ (within 10 days of successful Initial Verification Test) |
| Annual Leak Inspection Program triggered⁴? YES / NO |
| Leak Repaired? YES / NO |

NOTE: Initial & Follow up verification tests required only if leak rate exceeds corresponding limit in Note above.

4. Building: __________ Mfr.: __________ Model #: __________ |
| # of Circuits: __________ Refrigerant Type: __________ Serial #: __________ |

5. Full Unit Charge (lbs): __________ Ref. Added Cir. #1: __________ Ref. Removed Cir. #1: __________ |
| Charge per Cir. #1: __________ lbs Cir. #2: __________ Cir. #2: __________ |
| Charge per Cir. #2: __________ lbs "If more than two circuits, include info on additional circuits in comments section below."

6. Service/Maintenance Action Taken, including evacuation level achieved (mmHg):

7. Recovery Equip: Make: __________ Model #: __________ Serial #: __________ |

Comments:

Our Recommendations:

8. Certification Type (Check All That Apply): [ ] Type I [ ] Type II [ ] Universal [ ] MVAC |
| Technician’s Name: __________________________ Technician’s Signature: __________________________ |

**PLEASE PRINT**

¹ Appliance: Any device which contains/uses a Class I or II substance or substitute as refrigerant which is used for household or commercial purposes, including any air conditioner, motor vehicle a/c, refrigerator, chiller, or freezer. For a system with multiple circuits, each independent circuit is considered a separate appliance.

² Rolling Leak Rate = [net lbs refrigerant added over 365 days / lbs refrigerant in full circuit charge] x 100 -- Also calculated by RTIS.

³ Need to perform prior to adding refrigerant after the repair.

⁴ Leak Inspection Requirements = Commercial/Industrial Process Refrigeration > 500 lbs once/3 months; 50-500 lbs once/year; Comfort Cooling ≥ 50 lbs once/year until leak rate does not exceed rates in note above for each category.
### Refrigerant Tracking Form
NAS Pensacola Complex

#### Appliance Service Report: Less than 50 lbs

1. **Work Order #** _________________________ **Date** ____________________________
2. **Company Performing Work:** ____________________________
3. **Date Service Requested:** ________________  
   **Check if repaired same day:** [ ]
   **Date Appliance Repaired (if not repaired the same day):** ________________  
   **Leak Repaired?**  YES / NO

4. **Building:** ________________  
   **Mfr.:** ________________________  
   **Model #:** ____________________
   **# of Circuits:** ____________  
   **Refrigerant Type:** ________________  
   **Serial #:** ____________________

5. **Full Circuit Charge** (lbs): ____________  
   **Ref. Added** Cir. #1: ________  
   **Ref. Removed** Cir. #1: ________  
   **Cir. #2: ________**  
   **Cir. #2: ________**
   *
   *If more than two circuits, include info on additional circuits in comments section below.

6. **Service/Maintenance Action Taken, including evacuation level achieved (mmHg):**

   **Comments:**

   **Our Recommendations:**

7. **Certification Type (Check All That Apply):**  
   [ ] Type I  [ ] Type II  [ ] Universal  [ ] MVAC

8. **Technician’s Name:** ________________________  
   **Technician’s Signature:** ________________________

   *** when units are found low on Refrigerant this report must be performed, filled out and submitted to the HVAC supervisor ***

---

Appliance: Any device which contains/uses a Class I or II substance or substitute as refrigerant which is used for household or commercial purposes, including any air conditioner, motor vehicle a/c, refrigerator, chiller, or freezer. For a system with multiple circuits, each independent circuit is considered a separate appliance.
<table>
<thead>
<tr>
<th>Type of Light Fixture or Shield</th>
<th>Suitability for Use Near Turtle Nesting Beaches</th>
<th>Type of Fixture or Shield (Not Recommended)</th>
<th>Suitability for Use Near Turtle Nesting Beaches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall-Mounted Downlighting</td>
<td>Good to excellent on lower-story walls. Add baffles or louvres to reduce excessive glow/reflection within the fixture and onto other surfaces.</td>
<td></td>
<td>Poor to very poor suitability when mounted on upper stories</td>
</tr>
<tr>
<td>Turtle Friendly Plastic Shield for Wall/Ceiling Downlighting Fixtures</td>
<td>Provides additional shielding of the light source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Everstone Sea Turtle Safe Wall Sconce</td>
<td>Shielded for low level lighting in turtle areas. Must be used with long wavelength, wildlife approved low wattage bulb.</td>
<td></td>
<td>Poor overall suitability, especially on upper story mounts. Not suitable for mounting on structure sides facing the beach.</td>
</tr>
<tr>
<td>Cutoff Shield Visor for &quot;Wall Pack&quot;</td>
<td>Provides additional shielding of the light source. Must be full cutoff.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of Light Fixture or Shield</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
<td>Type of Fixture or Shield (Not Recommended)</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
</tr>
<tr>
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<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Large Rectangular “Wall Pack” Shade</td>
<td>Provides additional shielding of the light source.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pole-Top Mounted or Arm-Mounted Cutoff Lighting, “Shoebox” Fixture</td>
<td>Poor to good overall suitability depending on mounted height, no more than 5 meters if located within 100 meters of nesting beach.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutoff Shield Visor for “Shoebox” Fixture</td>
<td>Provides additional shielding of light source.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arm-Mounted Area Lighting, “Flat-Face” Cutoff Fixture</td>
<td>Poor to good suitability depending on pole height. To be mounted no higher than 5 meters within 100 meters of nesting beach.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutoff Shield for “Cobrahead”</td>
<td>Provides additional shielding of the light source.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arm-Mounted Area Lighting, “Cobrahead” Fixture</td>
<td>Poor overall suitability depending on pole height. To be mounted no higher than 5 meters within 100 meters of nesting beach.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of Light Fixture or Shield</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
<td>Type of Fixture or Shield (Not Recommended)</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
</tr>
<tr>
<td>--------------------------------</td>
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<td>----------------------------------------------</td>
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</tr>
<tr>
<td>Ceiling-Recessed Downlighting with Baffles to Eliminate Lateral Light</td>
<td>Good to excellent when mounted in lower-story ceilings and soffits.</td>
<td>Ceiling-Mounted Area Lighting, Fixtures with Refracting Globes or Convex Lenses</td>
<td>Poor suitability if mounted on beach side of buildings.</td>
</tr>
<tr>
<td>Pole Mounted Floodlight with Full Visor</td>
<td>Good overall if directed downward, away from beach and it does not illuminate objects visible from the beach.</td>
<td>Pole Mounted Floodlighting</td>
<td>Fair overall if directed downward, away from the beach, and the light does not illuminate objects visible from the beach.</td>
</tr>
<tr>
<td>Cutoff Sheild Visor for flood lighting</td>
<td>Provides additional shielding of the light source.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutoff Shield for Wall-Mounted Floodlight Fixtures</td>
<td>Provides additional shielding of the light source. Must be locked in position.</td>
<td>Wall-Mounted Floodlight Fixture</td>
<td>Poor to very poor suitability with lack of shielding.</td>
</tr>
<tr>
<td>Type of Light Fixture or Shield</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
<td>Type of Fixture or Shield (Not Recommended)</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
</tr>
<tr>
<td>-------------------------------</td>
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<td>---------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Lighting Bollard with Sea Turtle Safe Dark Amber LEDs</td>
<td>Shielded for low level lighting in turtle areas. Must be used with long wavelength, wildlife approved low wattage bulb.</td>
<td></td>
<td>Fair if mounted at heights less than 2 meters, poor to very poor if any higher. Not to be used near nesting beaches due to lack of shielding capabilities.</td>
</tr>
<tr>
<td>Lighting Bollard with Louvres</td>
<td>Good overall if mounting height is near 1 meter (maximum 42”). Louvers must be downward directed, so that the light source cannot be seen directly. Preferred over globe lights, pole-mounted lighting, or floodlights near the crest of the dune or on seaward side of buildings.</td>
<td>Lighting Bollard with Hidden Lamp</td>
<td>Fair to good if mounted height is near 1 meter and shields are applied to beach side of fixture.</td>
</tr>
<tr>
<td>Low-Level &quot;Mushroom&quot; Lighting</td>
<td>Good overall if mounted at foot level and positioned in a manner that topography and vegetation block the light from the beach.</td>
<td>Decorative Globe Light</td>
<td>Very poor overall near nesting beaches due to inability to be shielded.</td>
</tr>
<tr>
<td>Type of Light Fixture or Shield</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
<td>Type of Fixture or Shield (Not Recommended)</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
</tr>
<tr>
<td>--------------------------------</td>
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<td>---------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Low-Level Tier Lighting</td>
<td>Fair to good if mounted at foot level and positioned in a manner that topography and vegetation block the light from the beach.</td>
<td>Ground-Mounted Floodlighting</td>
<td>Poor due to typical upward aim, if aimed away from beach suitability is poor to fair.</td>
</tr>
<tr>
<td>Linear Tube Lighting</td>
<td>Excellent suitability for use in recessed areas and mounts at foot level. Directional suitability is very limited.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Louvered Step Lighting</td>
<td>Good to excellent suitability when mounted on lower-story walls. Louvers must be downward direction, such that the light source is not directly visible.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of Lamp</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
<td>Type of Fixture</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------</td>
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<td></td>
</tr>
<tr>
<td>Amber LED Turtle Friendly Light Bulb</td>
<td>Minimally disruptive and good suitability. Long wavelength, low wattage LED bulb.</td>
<td>Low, shielded accent or safety lighting.</td>
<td></td>
</tr>
<tr>
<td>Red LED Turtle Friendly Light Bulb</td>
<td>Good suitability and minimally disruptive. Pure (monochromatic) amber yellow light is emitted, which is weakly attractive to hatchlings.</td>
<td>Pole-Top-Mounted or Arm-Mounted Cutoff Lighting, “Shoebox” Arm-Mounted Area Lighting, “Flat-face” “Wall Pack” with shield Lighting Bollard</td>
<td></td>
</tr>
<tr>
<td>Amber LED Turtle Friendly Bulb</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Low-pressure Sodium Vapor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of Lamp</td>
<td>Suitability for Use Near Turtle Nesting Beaches</td>
<td>Type of Fixture</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>Neon Tubes</td>
<td>Minimally disruptive and good suitability. Emits light that is pure red.</td>
<td>Pathway and ground level lighting.</td>
<td></td>
</tr>
<tr>
<td>Amber or Yellow Incandescent Bulb “Bug Light”</td>
<td>Minimally to moderately disruptive with good to fair suitability. Little short-wavelength light is emitted that is weakly attractive to hatchlings.</td>
<td>Not to be used adjacent to nesting beaches, but on sides of buildings facing away from the beach.</td>
<td></td>
</tr>
<tr>
<td>Amber or Yellow Incandescent Floodlight “Bug Light”</td>
<td>Minimally to moderately disruptive with good to fair suitability. Filter attenuates short wavelengths.</td>
<td>Can be used with any lamps but with a special focus on metal halide and high-pressure sodium lamps.</td>
<td></td>
</tr>
<tr>
<td>Yellow or Orange Dichroic Long-Pass Filter</td>
<td>Minimally to moderately disruptive with good to fair suitability. Filter attenuates short wavelengths.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Statement of Work
FLCJ-PNS-FY19-06
Repairs to
Facilities 1889 and 1993
Barge Pier and Barge Shack
Naval Air Station
Pensacola, FL

November 12, 2020

Work Order No.
Contract No.
STATEMENT OF WORK [SOW]

Repairs to Facilities 1889 and 1993
Barge Pier and Barge Shack
12 November 2020

1.0 Description of Facility:

1.1. Repairs to Facilities 1993 and 1889, Barge Pier and Barge Shack at Naval Air Station, Pensacola, Florida is a design-build project. The renovation will consist of incidental design, selective demolition and repair work on various parts of the facilities.

1.2. **Current Situation:** The Barge Pier, Facility 1889, and the Barge Shack 1993 are in need of repairs. The fuel piping on the pier was replaced in 2018 but the rest of the pier was not included in the repairs. The electrical distribution system for the pier is in need of full replacement and the lighting system on the pier needs to be replaced as well. The barge shack needs repair work. The water pipe supports for the eyewash piping need to be replaced. Other repairs included are resurfacing the asphalt road to the pier and placement of a new concrete turnaround for vehicle access.

1.3. **Base Bid:** The base bid will include incidental design, demolition and repairs to Facilities 1993 and 1889, Barge Pier and Barge Shack. The project is to provide new roof replacement, window replacement, and explosion proof HVAC wall unit for the Barge Shack. The Barge Pier repair includes replace exterior lighting along with other exterior appurtenances, road repairs and upgrades. The repair work is further described in Section 2.0.

1.4. The base bid design work requirement as described in the Base Bid is to develop and provide a design package as described in Section 3.0

2.0 Programming Requirements:

2.1 The following have a brief programming description for the overall scope and intent of the work required for that portion of the Project. The Contractor will find further requirements in the body of the Statement of Work under the Civil, Architectural, Mechanical and Electrical Sections that are also part of the requirements and more detailed in scope. In addition to this
scope of work, original construction documents are part of the attachments to this document for the A/E and contractor’s information. The A/E and contractor are responsible to provide for a complete and usable code compliant facility conforming to NAVFAC standards.

2.2 Selective Demolition

2.2.1 Civil-Site: Saw cut and remove severe broken pavement areas along the access road and the area front of the fuel pier. Mill existing asphalt road as indicated per SOW attached drawing. Cut additional pavement in front of the fuel pier for new concrete turnaround. Disconnect and remove exterior light poles.

2.2.2 B1889 Barge Pier: Dis-connect and remove existing exterior light poles. Dis-connect and remove all electrical boxes, disconnects, lighting, phone/data, and conduit for new replacement from the barge pier/shelter to the white alarm panel/utility enclosure. Dis-connect, remove and set aside for reinstallation the lightning protection. Drill new openings in existing concrete curb for two new overflow valves.

2.2.3 B1993 Exterior: Dis-connect and remove existing exterior wall lighting. Dis-connect and remove corroded electrical boxes, disconnects, and conduit for new replacement. Saw cut and remove existing CMU door lintel. Remove existing windows, perimeter sealant and backer rod for new application. Remove exterior hollow metal door and frame. Remove existing metal roof, fascia, and trim to existing roof deck. Remove existing water pipe and supports for new eyewash station.

2.2.4 B1993 Interior: Dis-connect, remove and set aside for reinstallation the lightning protection. Dis-connect and remove corroded electrical boxes, switches, disconnects, light fixture and conduit for new replacement. Remove existing concrete floor coating. Remove existing wall AC unit.

2.3 New Work

2.3.1 Civil-Site: Provide new asphalt replacement pavement areas along the access road and the area front of the fuel pier. Apply new overlay as indicated on SOW attached drawing. Install a new 48’ x 48’ concrete turnaround. Install new Class 1 Div 2 exterior light poles, warning lights, emergency shut-off switches, wiring, phone/data, conduit, conduit body and fittings to match existing.

2.3.2 B1889 Barge Pier: Install new Class 1 Div 2 exterior light poles, warning lights, emergency shut-off switches, wiring, phone/data, conduit, conduit body and fittings to match existing from the barge pier/shelter to the white alarm panel/utility enclosure. Prep and paint Existing Jib crane. Reconnect, test and reinstall the lightning protection system. Furnish and install two new overflow valves.

2.3.3 B1993 Exterior: Install new Class 1 Div 2 exterior light poles, wall mounted light, warning lights, emergency shut-off switches, wiring, phone/data, conduit, conduit body and
fittings to match existing. Install new CMU door lintel and replace existing windows with new wind rated window units, perimeter sealant, and backer rod for new application. Install new wind rated exterior hollow metal door, frame, and hardware. Install new wind rated metal roof, fascia, and trim to a new steel roof deck. Install new eyewash station, water pipe and supports.

2.3.4 B1993 Interior: Install new Class 1 Div 2 hazardous location electrical boxes, panels, disconnects, switches, wiring, phone, data, and conduit to match existing. Install new non-static concrete floor coating. Install new explosion-proof wall HVAC unit and Hazardous Location LED Lighting - 4’ 2 Lamp Fixture. Paint walls and ceilings to match existing.

2.4 Temporary Facilities:

2.4.1 The Contractor when providing a temporary trailer for their own office space shall have temporary power placed on its own separate metered service. Trailer is to be placed outside of the pier hazardous location zone areas.

3.0 Proposed Design Requirements:

3.1 The Contractor must provide incidental design and information as a set of generated requirements to be completed by an A&E firm selected by the Contractor and all drawings and specifications shall then be stamped and sealed by the licensed A&E firm. The design of architectural, interior, mechanical, electrical, and other engineering features of the work shall be accomplished, reviewed, and approved by architects, engineers, and interior designers registered to practice in their respective professional fields in a State or possession of the United States, in Puerto Rico, or in the District of Columbia.

3.2 The Contractor’s proposal shall be based on price and value. The Contractor will provide repairs at Building 1889/1993 and roadwork so that it can meet the requirements and intent of the design that has been provided by the Statement of Work (SOW). The Contractor will provide the assistance of an A&E firm to design the project in accordance with the SOW requirements and design schedule. The design and construction shall comply with the criteria contained herein and using industry standard materials and efficient practices. The Contractor shall be responsible for the professional quality, code compliance, technical accuracy and coordination of all designs, drawings, specifications, and other documents or publications upon which the design and construction are based on. The Government shall have final acceptance authority for the final overall design, materials, finishes and colors used for the project.

3.3 Construction documents shall be sufficient to afford a clear understanding of the construction work required. The work shall be organized in a manner that will assure thorough coordination between the various details on the drawings, and between the drawings and the specifications. The Contractor shall crosscheck all work until all conflicts have been reconciled. As the basis for format and preparation of the construction documents, FC 1-300-09N, Navy and Marine Corps Design Procedures must be used as guidance.
3.4 General Civil Requirements:

3.4.1 Design and Construction must comply with the following technical standards and requirements, and any not listed that are required by federal, state, or local regulations/codes. The information shall be the current edition. Where there is a conflict in requirements, the most stringent shall apply.

a. UFC_3_250_01_2016_Pavement Design for Roads and Parking Areas
b. UFC_3_250_04_2004_c2 Design: Standard Practice for Concrete Pavements
c. UFC_3_250_08FA_2004_Standard Practice for Sealing Joints and Cracks in Rigid and Flexible Pavements
d. AASHTO Guide for Design of Pavement Structures
e. NAS Pensacola Installation Appearance Plan

3.4.2 Civil Drawings shall include but not be limited to the following:

a. Existing Conditions
b. Site and Grading plans
c. Sections and Details

3.4.3 Site Work and Material Requirements:

3.4.3.1 Investigation of Site: Investigate previous performance of existing pavements, minimum of five years, on similar local subgrades to assist in evaluating subsurface conditions. Sources of data should include the landforms, soil conditions in ditches, and cuts and tests of representative soils in the site. Augment the survey with existing soil and geological maps. Sources of information include earlier subsurface investigations near the site, United States Geological Survey maps, and soil survey maps. Evaluate surface drainage at the site and subsurface drainage of the subgrade.

3.4.3.2 Milling of Existing Asphalt Pavement: Remove existing asphalt concrete pavement by milling to improve the rideability and cross slope of the finished pavement and to lower the finished grade adjacent to existing curb prior to resurfacing. Remove all vegetation and debris prior to commencement of work.

3.4.3.3 Asphalt Pavement Overlay: Mill existing road surface where indicated (1 ½’-2”) for the new application of 1 ⅜” thick type FC-3 asphaltic friction course, prime and tack coat, and 1 ½” type S-111 asphalt structural course to crowned surface slope.

3.4.3.4 Asphalt Pavement Replacement: Saw cut and remove exist pavement to exist base course. Rework and recondition base course for new 1 ⅜” thick type FC-3 asphaltic friction course, prime and tack coat, and 1 ½” type S-111 asphalt structural course to a crowned surface slope.
3.4.3 **Jointed Reinforced Concrete Pavement:** Construct Portland cement concrete pavement in one course, on a prepared subgrade. Design slab thickness 8 inches minimum with 6 x 6 2.9/2.9 W.W.M., Joint Spacing 15 feet O.C. over 6” sub base and 12” stabilized subgrade depth with an LBR 0f 40.

### 3.5 General Architectural Requirements:

3.5.1 Design and Construction shall comply with the following technical standards and requirements, and any not listed that are required by federal, state, or local regulations/codes. The information shall be the current edition, where there is a conflict in requirements, the most stringent shall apply.

- a. UFC 1-200-01, General Building Requirements
- c. UFC 3-600-01, Fire Protection Engineering for Facilities
- e. UFC_3_460_01_2019_c1_Petroleum Fuel Facilities
- f. UFC_3_460_03_2017_POL Fuel Systems Maintenance
- g. UFC 3-410-01, Heating, Ventilating and Air Conditioning
- h. UFC 3-520-01, Interior Electrical Systems
- i. UFC 3-580-01 Telecommunications Building Cabling Planning and Design
- j. UFC 3-600-01, Fire Protection Engineering for Facilities
- k. UFC 4-021-01, Design and O&M: Mass Notification Systems
- l. NAS Pensacola Installation Appearance Plan

3.5.2 Architectural Drawings shall include but not be limited to the following:

- a. Floor Plans
- b. Interior Finish Schedules
- c. Casework Details
- d. Door Details & Miscellaneous Details
- e. Roof Plan and details

3.5.3 General Construction and Material Requirements:

3.5.3.1 Exterior Wall Finishes: Painting of exterior CMU wall finishes is required along with minor patching of the existing CMU. Power wash existing CMU wall surfaces. Patch all cracks, crevices, and openings with an elastomeric patch or sealant. Apply acrylic surface conditioner. Finish with two coats of acrylic elastomeric coating.

3.5.3.2 Exterior Door: Provide new 316 stainless steel finish 16-gauge hollow metal door (3’x 7’) and frame. Door core must be have 16 gauge stainless steel stiffeners with
fiberglass insulation placed in between stiffeners. Hinges are to be 4-1/2” heavyweight full mortice (316 stainless steel) including fasteners. 304 stainless steel is not acceptable for coastal environments.

3.5.3.3 Door Hardware: Hardware will be provided for a exterior door as indicated. Hardware components shall meet ADAGG and UFAS requirements for accessibility, and NFPA requirements for life safety. Provide lever handle in lieu of knobs.

3.5.3.4 Locksets: lock and latch sets including case, armor front, latch bolt and strike, shall be marine grade 316 stainless steel mortise lever handle with Best 7-pin interchangeable core. Lockset and cores to be of the same manufacturer to maintain complete lockset warranty. Locks shall have solid shank with no opening for access to keyed lever keeper. The Keyed Lever to be protected by means of a break-away mechanism to prevent forced entry, when excessive torque is applied, a replaceable part will shear. Lock chassis must be through-bolted (outside of the lock chassis prep) to prevent rotation of chassis after installation. Lock manufacturer shall provide a three-year warranty to the Government.

3.5.3.5 Cylinders and Cores: Provide cylinders for new locks, including locks provided under other sections of this specification. Cylinders shall be fully compatible with products of the Best Lock Corporation and shall have interchangeable cores which are removable by a special control key. The cores shall have seven pin tumblers and shall be factory set using the A4 system and F keyway. Submit a core code sheet with the cores. The cores shall be master keyed in one system for this project. Provide construction interchangeable cores. The Government, or the Government’s agent, will install permanent cores and return the construction cores to the Best Access Systems Factory Representative. All Construction cores and keys remain the property of Best Access Systems.

3.5.3.6 Keying System: Provide a master keying system.

3.5.3.7 Keys: Furnish one file key, one duplicate key, and one working key for each key change and for each master keying system. Furnish one additional working key for each lock of each keyed-alike group. Stamp each key with appropriate key control symbol and “U.S. property-Do not duplicate.” Do not place room number on keys. Furnish seven change keys for each interchangeable core, furnish two control keys, six master keys, and six construction keys.

3.5.3.8 Hardware & Finishes: Hardware other than lockets and door hinges shall have BHMA 619 finish (satin nickel plated, clear coated) over brass or bronze, except surface door closers which shall have aluminum painted finish. Hinges for exterior doors shall be 316 stainless steel. Exit devices may be provided in BHMA 626 finish in lieu of BHMA 630 finish. Exposed parts of concealed closers shall have finish to match lock and door trim. Provide new weather-stripping, closer and threshold.

3.5.3.9 Exterior Windows: Hurricane Resistant Single Hung Window thermally insulated - NFRC Certified AAMA CW60 Rated Window units for high wind and windborne debris.
3.5.3.10 Interior Finishes: In general, the Structural Interior Design (SID) involves the selection and coordination of all the building related materials and finishes. The material finishes and colors are to be durable and maintain their appearance with easy cleaning applications. Provide color board and product data to SOW finish requirements.

3.5.3.11 Barge Shack interior: Paint walls and ceiling with anti-microbial, acrylic latex paint. Install new ESD (Electrical static dissipation) counter-top with ground connection.

3.5.3.12 Anti-Static Epoxy Flooring: Top Coat is a three component self-leveling system over concrete surfaces are mechanically prepared, either by scarifying, grinding or shot blasting equipment, and be suitably prepared down to sound, solid concrete by mechanical methods. After primer coat extend copper tape per manufacturer’s instructions and connect to pier grounding system and apply top coats.

3.5.3.13 Painting: All walls and surfaces will be cleaned and prepped prior to painting. All walls required to be painted will be primed and painted two coats. In the work area, as indicated, all new or existing walls, exposed conduit, and piping is to be painted.

3.5.3.14 Roofing: Install new architectural standing seam roof with concealed fasteners over an air barrier, cover board, R-30 rigid insulation, and steel decking anchored to the existing CMU wall. Install all perimeter eave, fascia, and drip flashing. Install lightning terminals and ground terminals per UFC 3-460-1.

3.6 Interior Design Requirements:

3.6.1 Design Requirements:

3.6.1.1 Interior Finishes: In general, provide Structural Interior Design (SID) for the selection and coordination of all the building related materials and finishes. The material finishes and colors are to be durable and maintain their appearance with easy cleaning applications.

3.7 Heating, Ventilating, and Air Conditioning:

3.7.1 Design Requirements:

3.7.1.1 Provide 7900 BTUH (Cooling) Room Air conditioner for Class 1 Division 1 hazardous location.
   a. Room side air: 265 CFM
   b. Power Supply: 115V-1PH-60hz
   c. 316 Stainless steel cabinet, frame, fasteners and supports with split division from indoor to outdoor section.
d. Compliance to NEC Article 500 & 505 standards and spark free construction

3.8 **Heating, Ventilating, and Air Conditioning (HVAC) General Requirements**

3.8.1 Codes and References: The most recent edition of the following codes and publications, standards and documents identified shall be used as a guide for all design and construction criteria:

b. The International Mechanical Code (IMC) 2018
c. The International Plumbing Code (IPC) 2018
d. The International Fuel Gas Code (FGC) 2018
f. ASHRAE 90.1 User’s Manual
g. ASHRAE Standard 62.1 Ventilation for Acceptable Indoor Air Quality
h. ASHRAE Standard 55 Thermal Environmental Conditions for Human Occupancy
k. National Fire Protection Association Standard 90A (NFPA 90A), Standard for the Installation of Heating and Air-Conditioning Systems,
m. NFPA 30, Flammable and Combustible Liquids Code,
p. Industrial Ventilation, A Manual of Recommended Practice, American Conference of Government Industrial Hygienists,
q. UFC 3-410-01FA, Heating, Ventilating, and Air Conditioning
r. UFC 3-410-02A, Heating, Ventilating, and Air Conditioning (HVAC) Control Systems
s. UFC 3-400-01, Energy Conservation,
t. UFC_3_460_01_2019_c1_Petroleum Fuel Facilities
u. UFC_3_460_03_2017_POL Fuel Systems Maintenance

3.8.2 Miscellaneous Information:

3.8.2.1 Refrigerant shall be R-134A, R 410 or R-407C
Refrigerant: R-11, R-12, R-22, R-113, R-114, R-115, R-123 or R-500 as a refrigerant will not be permitted. Refrigerants shall have an Ozone Depletion Factor (ODF) of not greater than 0.0.
Seismic Design: As required by UFC 3-310-04.

3.8.3 Equipment Efficiency:

3.8.3.1 Unless noted otherwise, equipment efficiencies shall meet or exceed FEMP recommended, ENERGYSMR, or as listed in ASHRAE 90.1, whichever is greatest.
3.9  Technical Notes

3.9.1  Functional Performance Testing (Final Acceptance Testing): The contractor shall provide documentation of previous field test results to prove compliance with the specified performance criteria, upon completion and testing of the installed systems. Each test report shall document readings, test results, and indicate the final position of controls prior to scheduling the functional performance testing.

3.9.2  Overhead mounted utilities and other components weighing 31 pounds or more (excluding distributed systems such as piping networks that collectively exceed that weight) shall be anchored and braced for the following load combination: 0.5 times component weight in any direction plus 1.5 times component weight in the downward direction. The anchorage and bracing of these components shall also be designed for seismic and be based on whichever requirement is more stringent.

3.9.3  Operation and Maintenance Manuals for all components of the HVAC systems shall be required by the design. Manuals shall be submitted for approval 60 days prior to the scheduled completion date for the project. Framed instructions, control drawings, and/or system diagrams shall be in place prior to the start of training.

3.10  Plumbing

3.10.1  Repairs: Install new eyewash/shower station, water pipe and supports.

3.10.2  Codes and References: The following most recent codes, publications, standards and associations serve as a guide for all design and construction criteria:

a. NAS Pensacola IAP Plan  
b. The International Mechanical Code (IMC)  
c. The International Plumbing Code (IPC)  
d. The International Fed Gas Code (FGC)  
f. UFC 3-420-01, Plumbing Systems  
g. Americans with Disabilities Act Accessibility Standards  
h. UFC 4-010-01, DoD Minimum Antiterrorism Standard for Buildings  
i. UFC 3-310-04, Seismic Design for Buildings  
j. Federal Energy Management Program (FEMP)  
l. The Foundation for Cross-Connection Control and Hydraulic Research (FCCCHR) – USC  
m. Plumbing Drainage Institute (PDI)  
n. Occupational, Safety & Health Administration (OSHA Standards)

3.10.3  General Design Requirements:
3.10.3.1 All plumbing work as required shall be in accordance with the International Plumbing Code unless otherwise stated and as specified hereinafter. Fixtures and trim shall be in accordance with MIL HDBK-1190 and as specified hereinafter. Coordinate locations with architecture. All water piping subject to freezing shall be completely capable of draining and suitably protected. All above-grade potable water piping (both hot and cold) shall be insulated. Potable cold water pipe insulation shall also be provided with a vapor barrier. Exposed potable water piping (both hot and cold) directly adjacent to, and connected to, plumbing fixtures shall be chrome-plated brass and un-insulated. Isolation valves shall be provided at each branch serving two or more plumbing fixtures. Backflow preventers shall be approved and listed by the Foundation for Cross-Connection Control & Hydraulic Research. Reduced-pressure principle assemblies, double check valve assemblies, atmospheric (nonpressure) type vacuum breakers, and pressure type vacuum breakers shall be tested, approved, and listed in accordance with FCCCHR Manual. Backflow preventers with intermediate atmospheric vent shall conform to ASSE 1012. Reduced pressure principle backflow preventers shall conform to ASSE 1013. Hose connection vacuum breakers shall conform to ASSE 1011. Pipe applied atmospheric type vacuum breakers shall conform to ASSE 1001. Pressure vacuum breaker assembly shall conform to ASSE 1020. Air gaps in plumbing systems shall conform to ASME A112.1.2.

3.10.3.2 Piping materials as required:

3.10.3.3 Drainage Piping (Soil, Waste, Vent)

a. Below Grade:
   1. Schedule 40 PVC with glued joints.

b. Above Grade:
   1. Schedule 40 PVC with glued joints.
   2. Copper (type DWV or heavier), with soldered joints and wrought copper or cast brass drainage and vent fittings.

3.10.3.4 Domestic Water Piping

a. Below Grade:
   1. Copper tube, type K hard, with brazed joints and wrought copper or cast brass fittings.

b. Above Grade:
   1. Copper tube, type L hard, with soldered joints and wrought copper or cast brass fittings.

3.10.3.5 Pipes in exposed areas and in accessible pipe spaces shall be provided with color band and titles adjacent to all valves, except those provided at plumbing fixtures, at not more than 40 foot spacing on straight pipe runs, adjacent to change in direction, and on both sides where pipes pass through walls or floors. Color code marking shall be of the color listed in TABLE I and the size listed in TABLE II. The arrows shall be installed
adjacent to each band to indicate the direction of flow in the pipe. The legends shall be printed in uppercase black letters as listed in TABLE I. Letter sizes shall be as listed in TABLE II. Marking shall be painted or applied using colored, pressure-sensitive adhesive markers of standard manufacture. Paint shall be as specified for insulated and uninsulated piping. Color code for plumbing valve tags shall be green.

**TABLE I. COLOR CODES FOR MARKING PIPE**

<table>
<thead>
<tr>
<th>Letters and Material</th>
<th>Band</th>
<th>Arrow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold water (potable)</td>
<td>Green</td>
<td>White</td>
</tr>
<tr>
<td>Fire protection water</td>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Fire Sprinkler Water</td>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Hot water (domestic)</td>
<td>Green</td>
<td>White</td>
</tr>
<tr>
<td>Hot water recirculating (domestic)</td>
<td>Green</td>
<td>White</td>
</tr>
<tr>
<td>Treated water</td>
<td>Green</td>
<td>White</td>
</tr>
<tr>
<td>Compressed air</td>
<td>Blue</td>
<td>White</td>
</tr>
<tr>
<td>Refrigerants</td>
<td>Blue</td>
<td>White</td>
</tr>
</tbody>
</table>

**TABLE II. COLOR CODE MARKING SIZES**

<table>
<thead>
<tr>
<th>Outside Diameter of Pipe Covering Numerals (Inches)</th>
<th>Length of Color Band (Inches)</th>
<th>Arrow Length x Width (Inches)</th>
<th>Size of Legend Letters and Numerals (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 1-1/2</td>
<td>8</td>
<td>8 x 2-1/4</td>
<td>½</td>
</tr>
<tr>
<td>1-1/2 to 2-3/8</td>
<td>8</td>
<td>8 x 2-1/4</td>
<td>¼</td>
</tr>
<tr>
<td>2-1/2 to 7-7/8</td>
<td>12</td>
<td>8 x 2-1/4</td>
<td>1-1/4</td>
</tr>
<tr>
<td>8 to 10</td>
<td>24</td>
<td>12 x 4-1/2</td>
<td>2-1/2</td>
</tr>
<tr>
<td>Over 10</td>
<td>32</td>
<td>12 x 4-1/2</td>
<td>3-1/2</td>
</tr>
</tbody>
</table>

3.10.3.6 Specifications: Specifications include, but are not limited to, the following Unified Facilities Guide specifications (UFGS) Sections (available at the following web address http://www.ccb.org/ufgs/ufgs.htm; utilize specs intact software):
a. 22 00 00 Plumbing, General Purpose

b. 22 05 49.00 20 Mechanical Sound, Vibration, and Seismic Control

c. 22 07 19 Plumbing Piping Insulation

3.11 Jib Crane

3.11.1 Repairs: prepare, prime and paint existing Jib Crane.

3.11.2 Codes and References: The following most recent codes, publications, standards and associations serve as a guide for all design and construction criteria:

a. NAVCRANECENINST 11450.2 18 March 2013
b. NAVFAC P-307 June 2016

3.11.3 General Design Requirements:

3.11.3.1 Boom and Jib: Carrier Frame and Rotate Base.
Check condition of boom and jib for straightness and for obvious physical damage, such as cracking, bending, or deformation of plates or welds. Check for cracking or flaking of paint that may indicate a crack or damage in the structure beneath.

3.11.3.2 Surface preparation: Remove all grease, oil, and surface debris by solvent wiping or detergent/water scrubbing, prior to blast cleaning. Prepare surfaces to be coated by abrasive blasting to SSPC SP 6/NACE No.3, Commercial Blast Cleaning, or in accordance with the coating manufacturer’s requirements, whichever is more stringent.

3.11.3.3 Use a painting system appropriate for the conditions provided in the Crane Design Criteria section. Paint exposed portions of the crane using a three-coat system as follows: zinc-rich primer consisting of a minimum of 85 percent zinc by weight in the dry film, an antirrosive epoxy intermediate coat, and an aliphatic polyurethane top coat. All paint products must be supplied by a single manufacturer and free of chromates, lead, and mercury. Apply each coat in accordance with manufacturer’s instructions and requirements. Ensure each coat is smooth, even, and free of runs, sags, orange peel, and other defects. Desired color of finish coat is brilliant yellow. Submit product data for painting system.

3.11.3.4 Primers on faying surfaces of structural bolted connections must meet the requirements of the Manual of Steel Construction (Specification for Structural Joints Using ASTM A325 or A490 Bolts). Such paint protection is appropriate for all service environments, but are intended mainly for use in conditions of high humidity or marine atmosphere.

3.11.3.5 Primers on faying surfaces of structural bolted connections must meet the requirements of the Manual of Steel Construction (Specification for Structural Joints

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Using ASTM A325 or A490 Bolts). Such paint protection is appropriate for all service environments, but are intended mainly for use in conditions of high humidity or marine atmosphere.

3.11.3.5 The following surfaces and materials of mechanical components shall not be painted:
1. Working surfaces of wire rope drums, sheaves, rails and patented track, wheel and roller treads, etc.
2. Wire ropes, hooks, and hook nuts. (These items are periodically lubricated or have a preservative applied.)
3. Threaded portions of components intended for making adjustments or changing settings.
4. Contact surfaces underneath assembly and mounting fasteners (except for a primer coating).

3.12 Electrical New Work Requirements:

3.12.1 Site Electrical: Install new replacement Class 1 Div 2 exterior light poles, warning lights, emergency shut-off switches, panels, wiring, phone/data, conduit, supports, conduit body and fittings to match existing.

3.12.2 B1889 Barge Pier: Install new Class 1 Div 2 exterior light poles, warning lights, emergency shut-off switches, panels, wiring, phone/data, conduit, conduit body and fittings to match existing from the barge pier/shelter to the white alarm panel/utility enclosure. Reconnect, test and reinstall the lightning protection system.

3.12.3 B1993 Exterior: Install new Class 1 Div 2 exterior light poles, warning lights, emergency shut-off switches, panels, wiring, phone/data, conduit, conduit body and fittings to match existing.

3.12.4 B1993 Interior: Install new Class 1 Div 2 hazardous location electrical boxes, panels, disconnects, switches, wiring, phone, data, and conduit to match existing. Install new explosion-proof wall HVAC unit and Hazardous Location LED Lighting - 4' 2 Lamp Fixture.

3.12.5 Provide LED monochromatic amber and explosion proof exterior lighting minimum 560 nm required for wildlife protection.

3.13 General Electrical Requirements:

3.13.1 General Intention: It is the declared and acknowledged intention and meaning to perform the necessary electrical upgrades of Barge Pier and Barge Shack as described in this SOW and as indicated on the attached documents. The contractor shall furnish all miscellaneous parts, hardware, materials, appurtenances, and labor required. The construction and design shall not be limited to the principle items describe herein this
statement-of-work. Drawings and specifications shall be 100% design and ready for construction.

3.13.2 The project is to be completed in a design build manner and the scope includes all engineering, design, specification, labor, material, equipment, and transportation necessary to renovate Barge Pier and Barge Shack as described within this SOW. The contractor will be responsible for the selection of a licensed electrical engineer to provide a complete electrical design based on the requirements of this renovation project. The contractor will be responsible for procuring the equipment, all labor, material, permits, supervision, tools, and safety requirements. The project requirements described below are provided only to demonstrate the major contractual elements.

3.13.3 The Engineer of Record shall investigate the existing condition of Barge Pier and Barge Shack in its entirety, and associated hardware. Perform all necessary design analysis, demolition, modification and construction as required to install all electrical equipment for this renovation.

3.13.4 General Description: The work shall include but not be limited to the work described below, and all equipment and hardware shall be new:

3.13.5 Barge Pier and Barge Shack work effort shall generally consist of but not be limited to the following:

3.13.6 Design and construction will be required to provide for demolition of existing conduits for power, phone, data, alarm and lighting, and installation of the same including new light fixtures and electrical support for a new HVAC system. All associated hardware, conduit, electrical panels, conductors, etc. are required to be included in this project renovation to make for complete serviceable systems.

3.13.7 Contractors to furnish all equipment, materials, labor, testing and start up assistance associated with the electrical repair work.

3.13.8 Design/Build: the contractor shall be responsible for hiring an Electrical Engineer which shall be responsible for the following requirements:

3.13.9.1 The Engineer of Record shall perform all evaluation and design for installation of all electrical equipment associated with this renovation, and associated hardware, and the demolition of existing equipment as required for this renovation and associated hardware and systems. The contractor shall perform demolition and remove all equipment described in this project.

3.13.9.2 The work shall include original contract drawings, and technical specifications. The A-E shall investigate the existing conditions at Barge Pier and Barge Shack.
3.15 Electrical submittals

3.15.1 The A-E shall be responsible for approving all submittals. After approval a copy shall be sent to the contracting officer for the project Engineers approval. Any approval by the Government of the contract drawings doesn’t relieve the designer of any errors or omissions; the registered Electrical Design Engineer of record shall be responsible for the design content and technical accuracy.

3.15.2 The Government reserves the right, at no additional cost, to evaluate critique and make changes necessary to meet the intent of the Statement of Work and other requirements during the initial design up to the 100% final submittal.

3.15.2.1 The electrical drawings shall include but not be limited to the “type of sheets” and quantity shown below. The sheets shall be submitted to the Contracting Officer for approval or disapproval. “Type of sheet”, order and quantity will vary. All contract drawings to be finished shall be well prepared, complete, and accomplished in accordance with the best of professional practice to show clearly and concisely the type and extent of work to be performed to provide the government a “turn-key” system. Construction shall not begin until drawings are 100% complete.

a. T1 Title Sheet
b. E1 General notes, legends, abbreviations
c. E2 Site Plan
d. E3 Plans, Demolition
e. E4 Plan, New work
f. E5 Single-line Diagram, Demolition
g. E6 Single-line Diagram, New Work
h. E7 Light fixture schedules.
i. E8 Diagrams, Equipment and or Hardware Elevations etc.
j. E9 Control wiring diagrams

3.15.3 The Electrical distribution system shall have no splices, if wiring and conduit is not long enough to connect to new equipment then contractor shall demolition existing conductors and provide new conductors.

3.15.4 Field Supervision, Startup and Testing: The services of a manufacturer's service engineer who is experienced in the installation, adjustment, and operation of the equipment specified shall be provided. The representative shall supervise the installation, adjustment and testing of the equipment. The representative shall check the wiring between equipment, start up the system, and field test the functions, interlocks and protective devices to ensure that the total system is functioning according to the intent of the design. The field tests shall be performed under the supervision of a factory-trained representative of the equipment manufacturer and witnessed by the Government. The
Government shall be given 2 weeks written advance notice of the date and time when testing will be conducted. A letter of certification shall be provided to the Contracting Officer after installation has been successfully completed.

3.15.5 This project will encompass the demolition of existing equipment, and associated hardware. It is important that all dimensions be field verified before fabrication or purchase of all equipment, materials and assemblies. Further the Contractor and Engineer of record shall examine the site conditions where the work here in this statement-of-work is to take place.

3.15.6 In case of a conflict between the different UFC/code standards or other any information herein this document, the more stringent requirement criteria and/or work-effort shall apply and take precedence.

3.15.7 During unlikely event of loss of facility power, or unforeseen event during construction that will not allow power to be restored to the facility during any previously approved allotted time if needed for station power interruption, the contractor shall contact the project inspection immediately, and wait for direction from the Contracting Officer.


b. Design shall comply with NFPA 72

c. Design shall comply with NFPA 70 National Electrical Code


e. Unified Facilities Criteria (UFC) 4-021-01 Design Procedures


i. Engineering Technical Letter, ETL 90-6 Electrical System Grounding Static Grounding and Lightning Protection

j. UFC 1-300-09N Design Procedures
k. UFC 1-300-10 Electronic Design Deliverables

l. UFC 1-200-01 General Building Requirements

m. All lighting requirements shall comply with the latest addition of the Illuminating Engineering Society (IES) handbook, unless UFC design criteria dictate otherwise. If a conflict exist then the design Engineer shall comply with the more stringent criteria or contact the FEAD Electrical Engineer for direction.

n. UFC 3-600-01 Design Fire Protection Engineering for Facilities

o. UFC 3-520-01 Interior Electrical Systems, latest edition

p. UFC 3-501-03N Electrical Engineering Preliminary Considerations.

q. UFC_3_460_01_2019_c1_Petroleum Fuel Facilities

r. UFC_3_460_03_2017_POL Fuel Systems Maintenance

3.15.8 All electric metallic (EMT) conduit and fittings, couplings etc.: shall be the steel compression type.

3.15.9 Do not specify the use of MC type cable nor specify AC cable, because it can’t be reused.

3.15.10 All conduit 3 inches and larger specify LB-Mogul type “LB fittings” with rollers.

3.15.11 Fill all conduit window openings in concrete pads with pea gravel, this applies to transformers, generators, junction cabinets, and sectionalizing switches etc.

3.15.12 A coordination study shall be provided with the design.

3.15.13 Specify the thousand ampere interrupt current (KAIC) rating for all panel boards and circuit breakers on drawings.

3.15.14 Indicate on the electrical drawings an Air Handling Unit shut down diagram that shows how it Interfaces with the Fire alarm control panel.

3.15.15 Do not specify split-bolt connectors.

3.15.16 Specify bolt-on type circuit breakers.

3.15.17 Do not specify series rated circuit breakers.
3.15.18 A surge suppressor shall be provided at the main service.

3.15.19 Specify only non-fuse disconnects.

3.15.20 Specify Drive Isolation transformers to be connected to the line side of all variable frequency drives (VFD), and indicate either on the drawings or in the specifications that the motor is to be compatible with the VFD. Note this equipment shall not be an integral part of the VFD.

3.15.21 Do not specify delta-wye starters, because they will require a special wound motor.

3.15.22 Specify maximum Horse-power (HP) or Full Load Current (FLA) ratings of non-hermetically seal motors on the electrical sheets. Do not specify motors in (KW.)

3.15.23 Specify maximum Horse-power Run Load Current (RLA) ratings of hermetically seal motors on the electrical sheets.

3.15.24 The electrical sheets shall not show any motors being specified in thousand watts (KW) because power factor, and efficiency is unknown.

3.15.25 Do not indicate nominal values on drawings for equipment. Always specify maximum values.

3.15.26 Regarding outdoor compressor/condenser units: Call for conduit & wiring leaving load side of non-fuse-disconnect to be routed down wall and underground (36” below finish grade) and then routed up 12” above finish grade adjacent to compressor/condenser unit as required and connect to compressor/condenser unit using liquid tight flexible metallic conduit (36” maximum length) and wiring.

3.15.27 Call out on the drawings for the heat strips to be installed as an integral part of the air handling unit (AHU), and for the power connection to be “single point”, hence it should only be one circuit being ruin to the AHU. The only exception to this paragraph is if a variable frequency drive is specified to serve the “AHU.” The attached “Typical AHU Wiring Diagram” and notes 36 thru 38 shall be place on the construction drawings.

3.15.28 All disconnects shall be the heavy-duty type.

3.15.29 Comply with Engineering Technical Letter (ETL) 1110-3-412 (Boring)

3.15.30 Show (Ampere) values in the panel board schedule for all equipment. Install a grounding bus bar in the Mechanical room in proximity to the Main Panel board, various facility grounds should connect at this point.

3.15.31 All outdoor hardware and equipment being specified within one mile of coastal waters shall be rated for an corrosive environment.
3.15.32 All conductors #1 and smaller shall be sized using the ampacities in the 60 degree column of table 310.16 of the National Electrical code. All conductors 1/0 and larger shall be sized using the ampacities in the 75 degree column of Table 310.16 of the latest edition of the National Electrical code.

3.15.33 The following language shall be placed in the specifications verbatim: In case of ambiguous language, or conflict between the different UFC/CODE standards, contract specifications or contract drawings the more stringent requirement, criteria and/or work-effort shall apply and take precedence.

3.15.34 The following language shall be place in the specifications verbatim: The contractor shall examine the contract documents and notify the Government of any ambiguous language or illustrations to become familiar with these documents. Submission of a bid will be construed as evidence that such examination has been made and later claims for labor, materials, or equipment required for difficulties encountered will not be accepted by the Government.

3.15.35 For medium voltage distribution, use junction cabinets or sectionalizer switches instead of man-holes. The sectionalizer switch shall be the VISTA-523 type or Cooper-Power type unless otherwise specified by base Engineering or Maintenance personnel, Base Engineering reserves the right to specify which type of equipment to use during the design phase of the project.

3.15.36 The Engineer of Record shall provide in addition to the Government estimate supporting documentation from manufacturers, or equipment distributors the actual costs or equipment and hardware. The name and phone number of individual shall be provided and a description of the equipment and hardware.

3.15.37 The following note verbatim shall be added to the construction drawings electrical general notes: Any new additional electrical work required in this contract shall be sign and seal by a License Electrical Engineer.

3.15.38 When developing the construction documents the design Engineer-of-Record shall physically spend the required hours, days, etc.: at the job site to thoroughly familiarize himself or herself with existing site conditions that impact design and construction of the project. The Engineer-of-Record shall have Engineering Technicians and surveying crews as required assisting with this effort. Any information provided by the Government is for informational purposes only; it will be the Engineer-of-Record responsibility to physically verify that information in the field. The Engineer-of-Record shall take as many trips as necessary to the job site to comply with the requirements in this paragraph and document. The Engineer-of-Record shall be physically present at all design review meetings and/or conferences. If the Engineer-of-Record is unable to attend the meeting or conference then he or she shall have an Electrical Engineer with a Professional Engineer’s Licensee physically attending the meeting as his or her replacement.
3.15.39 If demand factors are used then the Engineer-of-Record shall thoroughly explain how he or she determine the demand factor. Provide the Government calculations, assumptions, notes etc.:

3.15.40 Direct buried circuits (not in conduit) is not allowed on NAS Pensacola, All circuits shall be in conduit. This includes power and control circuits and airfield lighting circuits.

3.15.41 All medium voltage conductors shall have no splices.

3.15.42 Do not connect new services or loads to existing overhead transformers, for new services and loads provide new concrete pole and pad mounted transformer.

3.15.43 All Interior & Exterior Electrical equipment and hardware shall be indicated in the Contract Documents to be new. Never reuse existing equipment or hardware unless directed to so in writing by FEAD Electrical Engineer.

3.15.44 The following shall be added to the Contract documents verbatim: The Contractor shall submit to the Government the certification letter Indicating that their electrical vehicles trucks etc.: have been dielectrically tested, a copy of this letter shall be carried in all trucks prior to performing any work on NAS Pensacola.

3.16 General Environmental Requirements:

3.16.1 General: The Contractor shall prevent environmental pollution and damage as the result of renovation operations under this contract. Environmental pollution and damage is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance human life; or degrade the utility of the environment for aesthetic, cultural and/or historical purposes. The control of environmental pollution and damage requires consideration of air, water, and land resources; and includes management of visual aesthetics; noise, solid, chemical, and liquid waste; radiant energy and radioactive materials; as well as other pollutants.

3.16.2 Permits: The Contactor shall determine permit requirements as part of the design process and shall submit draft applications as part of the submittal process. The permits shall be listed by title, permit number, permitting agency, effective date, and expiration date. The Contractor shall be responsible for submitting all applications and paying for all associated fees for environmental permits for the project. All environmental permits applications and construction completion certificates shall be prepared by an engineer registered in the state of Florida. The approved permit application must be provided to the Contracting Officer prior to starting construction on any of these activities. All Florida DEP permits and completion certificates shall be routed through PWD environmental during this process. The Contractor shall submit the construction completion certificate on all permit applications received by the
Contractor from local, state and federal agencies within the specified time frame (according to each permit) upon completion of the permitted activity. The construction completion certificates shall be provided to the Contracting Officer.

3.16.3 Hazardous Materials: Hazardous material shall be stored in lockers specifically made for storage of hazardous materials. MSDS’ for all hazardous materials brought on base shall be submitted to the Contracting Officer. An initial inventory and a monthly usage of hazardous materials shall be submitted to the Contracting Officer quarterly during construction.

3.16.4 New Asbestos Materials and Lead Based Paints: The Contractor shall not use materials containing Asbestos or Lead Based Paints in this facility. Upon completion of the project, the Contractor shall submit two copies of a Certified Letter to the Contracting Officer stating that no lead paints or materials containing asbestos were used in the facility.

4.0 Design Standards:

4.1 The building design and the materials selected shall be high quality, durable, and easily maintained. Design and Construction shall be in accordance with and comply with the latest International Building Code (IBC), National Fire Codes, and all applicable federal, state, and local regulations/codes. The following information and criteria are made a part of this contract by reference:

b. National Fire Codes (NFPA)-latest edition
c. American with Disabilities Act (ADA)-latest edition
d. Uniform Federal Accessibility Standards (UFAS)-latest edition
e. Department of Defense Antiterrorism Standards for Buildings
f. UFC 4-010-01-latest edition
g. UFC-3-600-01: Fire Protection Engineering for Facilities
h. UFC 3-410: Design Heating, Ventilating, and Air Conditioning
i. NASP IAP Standards-latest edition
j. ASHRAE 62: Ventilation on Acceptable Indoor Air Quality edition

5.0 Government Approved Design Submittals

5.1 The review of submittal by the Contracting Officer shall not be construed as a complete check, but will indicate only that the design is in conformance with the contract requirements. Review will not relieve the Contractor of the responsibility for any error which may exist, as the Contractor is responsible for the design and construction of all work.

5.2 The Contractor shall submit its design at different stages of design to the Government for review. All submittals required at each stage of design shall be submitted as a complete package at one time. No partial submittals will be reviewed. The number and requirements of each design submittal are listed hereinafter. The number and
contents of the design submittals shall be reflected in the Contractor’s progress charts. All comments for each submittal/phase shall have been incorporated into the design.

6.0 Design Schedule:

6.1 Within 5 days after Notice-to-Proceed, the Contractor shall submit, for approval a complete design schedule with all submittals and review times indicated by calendar dates. The current proposed schedule is as follows:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>50% Design Submittal</td>
<td>40 Days from NTP</td>
</tr>
<tr>
<td>50% Government Review</td>
<td>7 Days from 35% Submittal</td>
</tr>
<tr>
<td>95% Design Submittal</td>
<td>40 Days from 35% Review</td>
</tr>
<tr>
<td>95% Government Review</td>
<td>7 Days from 95% Submittal</td>
</tr>
<tr>
<td>100% Design Submittal</td>
<td>7 Days from 95%Review</td>
</tr>
</tbody>
</table>

6.2 This schedule shall be updated monthly. Any additional changes which the Contractor may wish to make to number or composition of design submittal shall be made 21 days prior to the expected submittal date. The Contractor shall allow seven (7) days for the Government review period if submittal dates are met. If a scheduled design submittal date is not met without notifying the Contracting Officer in writing one (1) week in advance, 14 days shall be allowed for the Government review period. If a submittal date is not going to be met, the Contractor shall notify the Contracting Officer, in writing, one (1) week prior to the scheduled submittal date. Failure to so will increase the Government review time by seven (7) days.

6.3 For each design review submittal, the Contractor will be furnished comments from PWD personnel involved in the review process. The Contractor shall annotate the comments with actions taken, and shall provide the annotated comments with the next submittals.

6.4 Drawings: Electronic files of the standard title sheet and drawing sheets with the government title blocks shall be provided to the Contractor. The drawing submittals will use Computer-Aided Design and Drafting (CADD) in AutoCAD 2016 format. All drawings shall be complete. The drawings will be broken out by project numbers and identified as such on the drawings.

6.5 Specifications: The specification submittals will use Microsoft Word. All specifications shall be complete. The Specifications will be broken out by project numbers and identified as such in the specifications.

6.6 Not Used

6.7 Design Analysis: The design analysis shall be presented on 8-1/2 inch by 11-inch paper except that larger sheets may be used when required for graphs or other special
calculation forms. All sheets shall be reproducible form. The material may be typewritten, hand lettered, handwritten, or a combination thereof, provided it is legible.

6.8 Design Submittals: Drawing submittals shall be half size (11” x 17”) and full size (22” x 34”). Provide 7 sets of half size and 1 full size sets of drawings. Specification submittal shall require 8 sets bound.

6.9 Final Submittal: Drawings shall be submitted on a CD with all x-ref files. 2 half size drawings shall be submitted. The final CD’s that reflect addendums, field changes, and modifications shall be submitted at close out of the project and reflect the As Built’s that will be provided by the Contractor. Specifications shall be submitted on a CD. The specification shall have 2 unbound copies submitted and 2 bound.

6.10 Submittal Register: The Contractor shall develop submittal requirements required during construction as part of the design phase of the contract. This shall be done by the Contractor’s Designer of Record by producing a Contractor Submittal Register at each submittal during design. A submittal register shall be prepared for each submittal during design. A submittal register shall be prepared for each section of the specifications for the submittal requirements of that section. The Contractor’s Designer of Record shall be responsible for listing all required submittals necessary to insure the project for listing all required submittals necessary to insure the project requirements are complied with. The Register shall identify submittal items such as shop drawings, manufacturer’ literature, certificates of compliance, material samples, guarantees, test results, etc. that the Contractor shall submit for review and/or approval action during the life of the construction contract.

6.11 Designer of Record: The Contractor shall identify and have on his staff a State Licensed Designer of Record to develop submittal requirements during design and construction, and shall be responsible for review and approval for each submittal identified in the Contractor Submittal Register. A Designer of Record may be responsible for more than one submittal. All areas of work shall be accounted for by a listed Designer of Record. Designers of Record will review and approve all submittals they are responsible for prior to submittal to the government. Upon each submittal approval, (3) three copies of that submittal shall be submitted to the Contracting Officer.

7.0 Proposed Construction Description:

7.1 The construction shall include, but shall not be limited to, the major items of work identified in this SOW, to provide a complete and usable facility. It shall be the responsibility of the Contractor to visit the site to determine the existing site conditions and actual scope of work that will affect the finished product.

7.2 Furniture/Fixtures/Equipment (FF&E): Purchased and Installed by Others:

<table>
<thead>
<tr>
<th>Item</th>
<th>Furniture/Fixtures/Equipment (FF&amp;E)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>None/Existing Equipment</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
7.3 The Contractor shall provide all necessary personnel, facilities, equipment, and materials to complete the requirements identified in this SOW.

8.0 Demolition:

8.1 Demolition: Selective demolition is required in various phases of the project.

9.0 Coordination with Other Contractors:

9.1 Other contracts and work are subject to be performed at the same time as this contract and the contractor shall cooperate and is now notified of the same.

10.0 Pre-Proposal Conference/Site Visit:

10.1 The Contractor accompanied by representatives of the Contracting Office, FEAD Engineer, Base Services, and other organizations as required, shall visit the site to assess exiting conditions. The purpose of the Pre-Proposal Conference/Site Visit is to verify the requirements and intent of the project. Minutes of items discussed and agreed to by all parties present will be recorded by the Contracting Officer. Copies of the minutes will be distributed to all parties involved.

10.2 The Contractor shall be responsible for field/site visit to obtain and verify measurements, building and site conditions, dimensions, utilities, and infrastructure. Any drawings provided to the contractor are for reference/information only. Contractor shall provide any and all deviations to accepted local, state, and federal building practices and codes to the attention of the Contracting Officer for review and consideration by the government. Contractor shall be fully responsible for obtaining utility spotting and location digging clearance by filling out NASP dig permit prior to any site work started on the construction site.

11.0 Deliverables:

11.1 The Contractor shall provide technical plans and reports as detailed below:

<table>
<thead>
<tr>
<th>Total</th>
<th>Total for FF&amp;E</th>
</tr>
</thead>
</table>

Page 24 of 27
<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Copies</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demolition Work Plan</td>
<td>5</td>
<td>Once</td>
</tr>
<tr>
<td>Environmental Assessment</td>
<td>5</td>
<td>Once</td>
</tr>
<tr>
<td>Health and Safety Plan</td>
<td>5</td>
<td>30 days after NTP</td>
</tr>
<tr>
<td>Work Plan</td>
<td>5</td>
<td>14 days after NTP</td>
</tr>
<tr>
<td>Construction Planning Chart</td>
<td>5</td>
<td>Monthly</td>
</tr>
<tr>
<td>Dig Permit</td>
<td>5</td>
<td>Once</td>
</tr>
<tr>
<td>Progress Reports</td>
<td>5</td>
<td>Weekly</td>
</tr>
<tr>
<td>O&amp;M Manuals</td>
<td>5</td>
<td>30 days after final inspection</td>
</tr>
<tr>
<td>Meeting Minutes</td>
<td>3</td>
<td>3 days after meeting</td>
</tr>
<tr>
<td>Pre-final Inspection Report</td>
<td>5</td>
<td>1 day after pre-final inspection</td>
</tr>
<tr>
<td>Final Inspection Report</td>
<td>5</td>
<td>7 days after final inspection report</td>
</tr>
<tr>
<td>Transfer &amp; Acceptance of Military Real Property (DD 1354)</td>
<td>5</td>
<td>7 days after final inspection report</td>
</tr>
<tr>
<td>Warranty Information</td>
<td>5</td>
<td>7 days after final inspection report</td>
</tr>
<tr>
<td>Daily Report to the CM</td>
<td>1</td>
<td>Daily</td>
</tr>
</tbody>
</table>

11.2 The work plan shall include:

a. Project Team Organizational Chart and Communications Plan
b. Work Breakdown Structure
c. Construction Planning Chart
d. Technical approach to the work
e. Project Schedule
f. Engineering requirements
g. Construction Quality Control Plan
h. Site Preparation Plan (to include provisions for staging area, specialty equipment usage requirements, control of erosion, and site excavations)
i. Environmental Protection Plan.
j. Dirt and Dust Control Plan
k. Spill Prevention, Control, and Countermeasure Plan

11.3 Progress Review Meetings: The initial Progress Review Meeting will be held at NAS Pensacola within 30 days of NTP. Subsequent meetings will be held at 30 days intervals at NAS Pensacola, unless additional meetings are required towards the completion of the work, for the duration of the project. The Contractor shall prepare and submit meeting minutes for all progress meetings. Meeting minutes shall be distributed to POC’s no later than 3 work days following the meeting dates.
11.4 The Contractor shall prepare and submit a Construction Quality Plan and Health and Safety Plan. No construction activities shall begin until the Contracting Officer approves the Construction Quality Plan and Health and Safety Plan.

11.5 Prepare and maintain project schedules using Primavera P6 and Daily Reported Production Activity: Submit on a monthly basis, in electronic spreadsheet format, a summary of daily reported production activity for the reporting month in the update schedule.

11.6 A monthly status report shall be submitted by the 15th day of each month; electronic submittal is preferred. The report is to be submitted to the Contracting Officer.

12.0 Period of Performance:

12.1 The period of performance for this contract shall be 101 calendar days for design and review. The period of performance for construction is 120 calendar days. Selective demolition is allowed to take place during the design phase. The total period of performance from the NTP is 221 calendar days.

13.0 Attachments:

SITE MAP - PHOTOS.pdf
CATHODIC PROTECTION REFERENCE.pdf
ELECTRICAL REFERENCE.pdf