SECTION 01
GENERAL REQUIREMENTS

PART 1 – GENERAL

1.01 RELATED REQUIREMENTS

A. All Contract Documents are related to this Section.

1.02 WORK COVERED BY CONTRACT

A. Work under this Contract includes all design, material, permits, tools, labor and travel, if necessary, to complete the project detailed herein and located at building 47431 in Bryant Army Airfield, JBER, Alaska. All work must be completed in accordance with the terms and conditions of the Contract Documents.

B. The work at the National Guard Armory includes designing and providing in complete and perfect working order a new diesel fuel fired standby generator system to supply power to the entire armory building, as seen in the attached map. The contractor shall provide all materials, appurtenances, and labor to provide for a standby power system that will automatically start and transfer from normal power to standby power upon a power failure and shut off when power is restored.

C. Contractor must comply with all applicable Federal, State, and Local Regulations and Requirements including but not limited to; Unified Facilities Criteria (UFC), OSHA, NEC, and NFPA.

1. The Standby Generator System is to be designed by a Professional Electrical Engineer, licensed to work in the State of Alaska and submitted for approval to the project manager.

2. Generator size to be based on full load potential of the buildings plus 25 percent reserve/surge capacity.

3. Generator and pad placement, and all trenching shall be limited to within the earmarked area indicated on the attached map.

4. Provide exterior rated corrosion resistant steel enclosure, sound rated per UFC 3-540-01 table 2-1 “Light Industrial”.

5. Generator set to include an onboard automatic battery charger, engine block heater, load bank and remote annunciation.

6. Double walled secondary containment, UL 142 listed, steel, above ground, sub base fuel tank with a minimum local 72-hour capacity at full output.

7. Excavate as necessary and install 4 inches of compacted D1 Gravel on top of 4 feet of non-frost susceptible soil.

8. Excavate and install conduit and electrical wiring to new ATS.

9. Install concrete generator pad per the recommendations and sized using the formulas in the attached concrete pad recommendation sheet.

10. Generator pad to extend 6 inches each way past generator enclosure or skids whichever is further.

11. Top of concrete generator pad to be between and 6 and 8 inches above existing grade.

12. Chamfer all exposed edges of pad ¾ inches.

13. Provide and install all pipe, valves, and fittings for fuel delivery as required by code.

14. Provide and install all conduit and wire.

15. Provide and install 800 amp, 120/208-volt 3 phase, automatic and manual transfer switch.

16. Backfill trenching and restore surface to original condition (top soil and seed or sod as necessary)

1.03 CONTRACT

A. Construct the Work under a single lump sum Contract.

1.04 WORK BY OTHERS

A. Other State projects may be scheduled to be under construction in the vicinity of the project. At this time, there are no known projects scheduled.

B. Cooperate with other Contractors, Department Consultants, and the DEPARTMENT to minimize conflict with construction operations.

1.05 WORK SEQUENCE AND MILESTONES

A. The contractor is highly recommended to perform a pre-bid walkthrough to understand and familiarize with existing site conditions. Arrangements for a tour to be scheduled with the project manager:

Name: Benhur Goldsworthy
Phone: (907) 428-7697; Cell: (907) 744-9073
Email: benhur.goldsworthy@alaska.gov

Walkthrough: Monday - Thursday
Hours: 7:00 A.M - 2:00 P.M

B. Upon receipt of Notice to Proceed (NTP) the CONTRACTOR will be expected to prepare submittals, a detailed project schedule and obtain required permits.

C. All work shall be substantially complete by September 30, 2023.

D. This is an active facility all work shall be coordinated with the Project Manager to minimize disruption to daily activities and to provide building access.

E. When applicable, the Contractor shall perform inspections and tests throughout the design and construction process, including:

   a. Design support, such as, existing conditions, needs assessments, etc.;
   b. Construction installation, such as, code compliance, placement, qualification, measurements, etc.;
   c. Final inspections and tests, such as, commissioning, performance certification, etc.

F. Upon completion of project, contractor must demonstrate complete start up and operation procedures witnessed by the owner's representative.

1.06 CONTRACTOR'S USE OF PREMISES

A. Coordinate use of the premises under direction of DEPARTMENT.

B. Assume full responsibility for the protection of the facility, roads and grounds in the project vicinity from construction related activities.

C. Obtain permission and pay for use of additional storage, Work or parking areas needed for construction operations.

D. The project Site shall be kept clean and organized. Stored materials must always be secured and Foreign Object Debris (FOD) picked up daily.

1.07 SECURITY REQUIREMENTS

A. When Contractor considers Work has reached Final Completion, submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and request Department of Military and Veterans Affairs perform final inspection.

B. In addition to submittals required by the conditions of the Contract, provide submittals required by governing authorities, and submit a Final Statement of Accounting giving total Contract Price and sum due.

PART 2 – PRODUCTS

A. Submit product data to project manager for approval prior to installation for all materials being installed.

PART 3 – EXECUTION

1. Comply with NFPA 70 Article 708 (Critical Operations Power Systems) requirements.

2. Comply with NFPA 110 level 2 criteria.

3. Comply with UFC 3-540-01; Engine Driven Generator Systems for Prime and Standby Power Applications, Chapter Two – Standby Power Generator Design Criteria.

4. All materials and debris removed during project will be the responsibility of the contractor to remove from job site for proper disposal. Arrangement of Dumpster for disposal of debris is the contractor's responsibility.

5. All materials and debris must be stored and disposed in the designated areas only to ensure safe operations. Continuous policing of debris is mandatory to allow continued safe operative environment.

6. Contractors must comply with OSHA Safety Standards, clean the work area on a daily basis and, provide safety barriers, dust control and access to be maintained during the project.

7. When applicable, the contractor must perform a documented hazardous material survey, and notify the DMVA Environmental Program Specialist, for removal and disposal hazardous material and hazardous waste generated. All hazardous materials must be removed before demolition.

   William T. Anklewich
   Environmental Program Specialist III
   State of Alaska DMVA, AKARNG Environmental
   Phone: (907) 428-7182; Email: william.anklewich@alaska.gov

8. Hazardous Material may include:

   - Lead-based paint;
   - Asbestos containing materials, such as insulation, ceiling or floor tiles, mastics, grout, roofing or siding, etc.;
   - Mercury in switches, thermostats, electronics, fluorescent bulbs, and other equipment;
   - Chlorofluorocarbons (CFCs) or other harmful chemicals in old refrigerators, air conditioners, and aerosol cans;
   - Polychlorinated biphenyls (PCBs) in transformers, lubricants, paints, and sealants;
   - Potentially toxic household or agricultural chemicals, including certain paints, cleaning products, and pesticides.

9. Contractors must store any construction equipment holding petroleum, oil, or lubricants on impervious surfaces whenever possible. Spill kits must be accessible during construction and if there is a spill, personnel must follow the DMVA Installation Spill Contingency Plan (ISCP). See enclosed ISCP.

END OF SECTION

DMVA INSTALLATION SPILL CONTINGENCY PLAN

CAN YOU CLEAN UP WITH THE MATERIALS AND PERSONNEL YOU HAVE ON HAND?

This includes a leak, fuel spill, or a finding of fuel-stained soil.

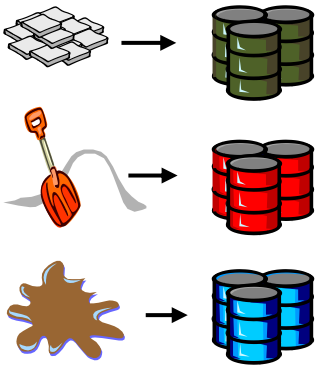
YES

Incidental Release

Put on personal protective equipment, such as gloves and goggles, found in the spill response kits.

Remove ignition sources and avoid vapors.

Stop flow of spill by closing valves, up-righting container, or creating a berm with boom, dirt, or snow. (See page 3 for location of piping shut-off valves.)



Place pooled material and contaminated sorbent, snow, soil, and debris into 55-gallon drum(s) or onto plastic sheeting using non-sparking tools. This should be done as quickly as is feasible after a spill to prevent further migration of oil.

Label drum(s). Example:

POL Spill Residue
October 2018

Contact AKARNG/DMVA Environmental Office to arrange for disposal: (907) 428-7182.

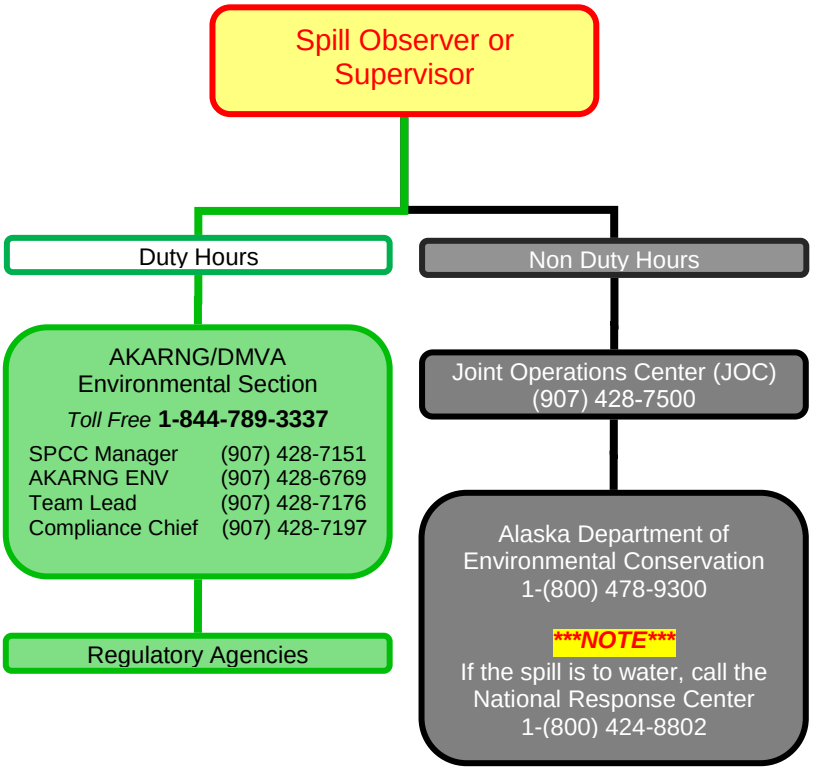
Use the adjacent notification chart for spill reporting once the spill response is complete.

NO

Uncontrolled Release

Evacuate Personnel if Necessary.

Use the following flow chart to notify Chain of Command and Environmental Section.



Do not leave only a voice mail. Notification is not complete until speaking with a person.

AKARNG Environmental Office will contract outside resources for cleanup when necessary.

EMERGENCY BACK-UP GENERATOR - PROPOSED LOCATION
TRENCHING/ UNDERGROUND ELECTRICAL LINE
EXISTING MECHANICAL ROOM