

**Statement of Work
FOR
JTVE 202708
Repair Fire Suppression Bldg.75 Hangar**



**Gulfport CRTC
09 DEC 2019**

**STATEMENT of WORK
FOR
JTVE FY20
Repair Fire Suppression Bldg. 75 Hangar**

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1.0 General:

1.1 Scope: The contractor shall provide all personnel, labor, equipment, tools, appliances, transportation, supervision, materials, and quality control reports required to perform modifications to Hangar Fire Suppression Systems, as described in this Statement of Work (SOW).

1.2 Background: This SOW will provide system upgrades to increase system reliability against accidental discharge and increase service life. The facility was constructed and fire protection systems installed in 2001. The hangar bay is protected with a pre-action sprinkler system and a supplementary low level AFFF monitor nozzle system. A releasing panel is used for the pre-action system from a manual releasing stations and heat detectors.

1.3 Period of Performance (PoP): The Period of Performance shall be 120 days.

1.4 General Information:

1.4.1 Quality Control (QC): The contractor shall develop and maintain an effective QC Plan (QCP) to ensure services are performed in accordance with this SOW. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor's QCP is the means by which it assures itself that its work complies with the requirements of the contract. As a minimum, the contractor shall develop QC procedures that address the areas identified in Technical Exhibit 1, Statement of Work Requirements Summary.

1.4.2 Quality Assurance (QA): The Government shall evaluate the contractor's performance under this contract in accordance with this SOW.

1.4.3 Recognized Holidays: The following are recognized US holidays. The contractor shall not perform services on these days:

1.4.3.1 New Year's Day: January 1st

1.4.3.2 Martin Luther King, Jr.'s Birthday

1.4.3.3 President's Day

1.4.3.4 Memorial Day

1.4.3.5 Independence Day: July 4th

1.4.3.6 Labor Day

1.4.3.7 Columbus Day

1.4.3.8 Veteran's Day: November 11th

1.4.3.9 Thanksgiving Day

1.4.3.10 Christmas Day

1.4.4 Place and Performance of Services: The contractor shall provide services between the hours of 0730-1530 Monday and 0730-1630 Tuesday through Friday, except on recognized US holidays or when the Government facility/installation is closed due to local or national emergencies, administrative closings, or similar Government-directed facility/installation

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closings. Performance shall be at Gulfport CRTTC, 4713 Hewes Ave. Gulfport, MS., Bldg. 75. The contractor shall at all times maintain an adequate work force for the uninterrupted performance of all tasks defined within this SOW when the Government facility/installation is not closed for the above reasons. When hiring personnel, the contractor shall keep in mind that the stability and continuity of the work force are essential.

1.4.4.1 Unscheduled gate closures by the Security Forces (SF) may occur at any time causing all personnel entering or exiting a closed installation to experience a delay. This cannot be predicted or prevented. Contractors are not compensated for unexpected closures or delays. Vehicles operated by contractor personnel are subject to search pursuant to applicable regulations. Any moving violation of any applicable motor vehicle regulation may result in the termination of the contractor employee's installation driving privileges.

1.4.4.2 In the event the contractor is unable to perform his daily operations due to peacetime emergency and or wartime contingency disturbances, etc., neither the government nor the contractor shall take action for non-compliance with contract requirements.

1.4.4.3 The contractor's employees shall become familiar with and obey the regulations of the installation; including fire, traffic, safety and security regulations while on the installation. Contractor employees should only enter restricted areas when required to do so and only upon prior approval. All contractor employees shall carry proper identification with them at all times. The contractor shall ensure compliance with all regulations and orders of the installation which may affect performance.

1.4.5 Security Requirements. The contractor shall comply with all applicable installation/facility access and local security policies and procedures, which may be obtained from the Contracting Officer's Representative (COR). The contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by the local installation's Security Forces, Director of Emergency Services or local Security Office. The contractor shall ensure compliance with all personal identity verification requirements as directed by DoD, HAF and/or local policy. Should the Force Protection Condition (FPCON) change, the Government may require changes in contractor security matters or processes.

1.4.5.1 Gulfport CRTTC Installation Entry Control: The following provides information from Air Force Instruction (AFI) 31-101 and local supplements on requirements for entering and conducting business while on the Gulfport CRTTC, MS.

1.4.5.1.1 Upon award of a contract, all contractors (including Small Purchase contractors), will have background checks conducted on all employees (including subcontractors or temporary employees) requiring access to the Gulfport CRTTC.

1.4.5.1.1.1 The base Point of Contact (POC) is the COR of the contract. The MSCRTTC Contractor/Subcontractor Access Affidavit Form shall be used for submitting employee personal information for background checks and may be obtained from the COR.

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1.4.5.1.1.2 The contractor is responsible for providing their employees' personal information to their base POC. Failure to provide all personal information required or providing fraudulent information will result in the employee's base access being denied.

1.4.5.1.1.3 The base POC sends a request, via email, to the Gulfport CRTTC /SF. Personal employee information will be included on the MSCRTC Contractor/Subcontractor Access Affidavit Form.

1.4.5.1.1.4 The Gulfport CRTTC /SF will, upon receiving the MSCRTC Contractor/Subcontractor Access Affidavit Form from the base POC, conduct a background check of contractor personnel using the approved local, state, and federal government databases.

1.4.5.1.1.5 Any contractor's employee found to have a criminal conviction listed below or have an outstanding warrant(s) will not be allowed entry to the base.

- a. US Citizenship, immigration status, or Social Security Account Number that cannot be verified.
- b. Barred from entry/access to any military installation or facility.
- c. Wanted by federal or civil law enforcement authorities, regardless of offense/violation.
- d. Name appears on any federal agency's "watch list or "hit list" for criminal behavior or terrorist activity.
- e. Any conviction for firearms or explosive violations within the last three years.
- f. Incarcerated for 12 months or longer within the past three years, regardless of the offense
- g. Any conviction of espionage, sabotage, treason, terrorism, or murder.
- h. Conviction of a sexual assault, armed assault/robbery, rape, child molestation or kidnapping.
- i. Drug possession with intent to sell or drug distribution.

1.4.5.1.1.6 Upon completion of the background check, the results will be electronically mailed to the requesting base POC. The email response will state whether the applicant is approved, denied, or pending further review by MSCRTC/SF. Contractor's employee(s) approved for base access will report to the SF, Building 4 for issuance of their contractor identification badge.

1.4.5.1.1.7 Background checks are valid for one year unless the person is terminated from the job, or is involved in a serious offense as listed above. Requests for base access exceeding the one year period will require another background check.

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1.4.5.1.1.8 Every contractor's employee regardless of duration shall obtain and submit a MSCRTC Contractor/Subcontractor Access Affidavit Form, have background checks conducted, and be issued a contractor identification badge.

1.4.5.1.1.9 The contractor shall create and maintain a list of all employees who received a contractor identification badge for this contract. Prior to pre-final inspection, the contractor shall give the COR the list of all employees who received contractor identification badges. At the final acceptance inspection or prior to contract close-out, the prime shall return all Contractor identification badges issued to the COR. The COR will verify that all contractor identification badges are returned from the list provided at the pre-final inspection. If all badges are not returned at the time of the final inspection or project close-out, the final payment will be withheld until either all contractor identification badges are returned or a sworn affidavit to the disposition of the badge is provided by the person who received the contractor identification badge.

1.4.5.1.1.10 Contractor's employee(s) approved for base access will report to the SF, Building 4, with COR for issuance of their contractor identification badge for the duration of the contract, not to exceed one year.

1.4.5.1.1.11 Contractor's employee(s) must possess the proper photo identification media (driver's license/state identification card, military identification card, or other authorized U.S. governmental photo media) to be issued a contractor identification badge. Non-U.S. citizens must provide original Immigrations & Naturalization Service photo media and Social Security card.

1.4.5.1.2 Contractor Vehicle Entry onto Gulfport CRTC: Operators of vehicles must provide the following documentation to register vehicles.

1.4.5.1.2.1 Valid driver's license, military identification card, and/or contractor identification badge.

1.4.5.1.2.2 Valid vehicle registration or rental agreement.

1.4.5.1.2.3 Valid insurance (except fleet vehicles) or rental agreement.

1.4.5.1.2.4 Drivers of borrowed vehicles must present a valid registration, insurance card (or policy), and power-of-attorney in the owner's name.

1.4.5.1.3 Contract, Commercial, and/or Oversized Vehicles: All contractor, commercial, and oversized vehicles must enter Gulfport CRTC through the Gulfport CRTC Main Gate located off Hewes Ave.

1.4.5.1.3.1 All commercial, delivery and oversized vehicles must be escorted by the COR or Security Forces personnel.

1.4.5.1.3.2 The following are considered "commercial or oversized" vehicles.

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- a. All vehicles registered and licensed with “commercial” license plates, regardless of state of issue.
- b. All vehicles, regardless of type, license plate, or size having more than two axles.
- c. All vehicles displaying a commercial plaque, logo, or emblem.

1.4.5.1.4 Contractor Vehicle and Personnel Processing: The Gulfport CRTC Main Gate is open 24 hours a day, 7 days a week. Contract, Commercial, and/or Oversized Vehicles inspection lane is open Monday –Friday from 0730-1530.

1.4.5.1.5 Sub-Contractors: All subcontractors are required to follow the same instructions listed in paragraph 1.4.5.4.1 for their personnel.

1.4.5.2 Miscellaneous Security Requirements: All requests for additional contractor employees must meet the same requirements listed in paragraph 1.4.5.1.1, before contractor identification badges will be issued.

1.4.5.2.1 The KO and COR will be notified when personnel leave the contractor company for any reason. The COR will provide that information to the Gulfport CRTC /SF to ensure that their database is updated.

1.4.5.2.2 The contractor is responsible for the return of all contractor identification badges at the end of the contract or when personnel depart for any reason.

1.4.5.2.3 During increased Force Protection Conditions (FPCONs) there may be limited entry to the installation.

1.4.5.2.4 Contractors ARE NOT AUTHORIZED to escort (vouch) any personnel entering the Gulfport CRTC.

1.4.5.2.5 Any contractor found in violation of this requirement will be escorted off the installation, contractor identification badge confiscated, and not be allowed to reenter the Gulfport CRTC without the written permission of the installation commander.

1.4.5.2.6 Contractors are required to obey all entry requirements, traffic rules and regulations in accordance with (IAW) AFI 31-218, Motor Vehicle Traffic Supervision. Failure to comply with requirements could result in barment from the installation.

1.4.5.2.7 The contractor shall be responsible for the action of any of his subcontractor and his employees who are working on Gulfport CRTC.

1.4.5.2.8 A base identification card/vehicle pass shall be obtained for all employees including any subcontractor. It is the intent of the government that each employee has possession of his

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pass at all times while working on this contract. The contractor/employee shall be responsible for the return of any pass when employment/and the contract is terminated.

1.4.5.3 Anti-Terrorism (AT) Level I Awareness Training: All contractor employees requiring access to Government Installations, Facilities and Controlled Access areas shall complete AT Level I awareness training within 10 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever is applicable. The contractor shall submit certificates of completion for each affected contractor and subcontractor employee, to the COR, or to the KO if a COR is not assigned, within 15 calendar days after completion of training. Level I AT is available at <http://jko.jten.mil>.

1.4.6 Operational Security (OPSEC) Training. In accordance with AR 530-1, Operations Security, new contractor employees shall complete Level I OPSEC training within 30 calendar days of their reporting for duty and annually thereafter. The contractor shall submit certificates of completion for each affected contractor employee, to the COR, or to the KO if a COR is not assigned, within 15 calendar days after completion of training. Level 1 OPSEC training is available at <http://cdsetrain.dtic.mil/opsec/>.

1.4.7 Physical Security. The contractor shall safeguard all Government property provided for contractor use. At the close of each work period, Government facilities, equipment and materials shall be secured.

1.4.7.1 Key Control. The contractor shall establish and implement methods of ensuring all keys/key cards issued by the Government are not lost or misplaced and are not used by unauthorized persons. NOTE: All references to keys include key cards. No keys issued by the Government shall be duplicated.

1.4.8 Special Qualifications:

1.4.8.1 Contractor and all personnel shall comply with the Standard codes as required by the State of Mississippi. The contractor shall provide a NICET Level III or IV Fire Alarm Technician to supervise all work.

1.4.9 Post Award Conference/Periodic Progress Meetings: The contractor agrees to attend any post award conference convened by the KO in accordance with Federal Acquisition Regulations Subpart 42.5. The KO, COR, and other Government personnel, as appropriate, may meet periodically with the contractor to review the contractor's performance. At these meetings, the Contracting Officer will apprise the contractor of how the Government views the contractor's performance and the contractor shall apprise the Government of problems, if any, being experienced. The contractor shall resolve outstanding issues raised by the Government. Contractor attendance at these meetings shall be at no additional cost to the Government.

1.4.10 Solid Waste Management: Contractor shall submit monthly a solid waste disposal report to the KO or COR. For each waste, the report will state the amount, location, and name of the business receiving the solid waste.

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1.4.11 Warranty: The contractor shall warrant that all work shall be of the best quality, free from faults and defects and agree to promptly and at their own expense remedy or replace any part of the work determined to be defective for a period of one (1) year from satisfactory completion. Provide a written warranty.

1.5 Wide Area Work Flow Procedures: Services shall be accepted and certified via the Wide Area Work flow-Receipt and Acceptance website <https://wawfeb.mil>.

1.5.1 The contractor will electronically initiate the Combo Invoice (receipt) and Acceptance form and electronically submit it to the COR.

1.5.2 The COR electronically submits the form to DFAS Limestone, P.O. Box 369020, Columbus, OH 43236-9020 for payment.

2.0 Definitions and Acronyms:

2.0.1 CONTRACTOR. A supplier or vendor awarded a contract to provide specific supplies or service to the government. The term used in this contract refers to the prime.

2.0.2 CONTRACTING OFFICER (KO). A person with authority to enter into, administer, and or terminate contracts, and make related determinations and findings on behalf of the government. Note: The only individual who can legally bind the government.

2.0.3 CONTRACTING OFFICER'S REPRESENTATIVE (COR). An employee of the U.S. Government designated by the KO to monitor contractor performance. Such appointment shall be in writing and shall state the scope of authority and limitations. This individual has authority to provide technical direction to the Contractor as long as that direction is within the scope of the contract, does not constitute a change, and has no funding implications. This individual does NOT have authority to change the terms and conditions of the contract.

2.0.4 DEFECTIVE SERVICE. A service output that does not meet the standard of performance associated with the Performance Work Statement.

2.0.5 DELIVERABLE. Anything that can be physically delivered and includes non-manufactured things such as meeting minutes or reports.

2.0.6 KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract by the Key Personnel listed in the SOW. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

2.0.7 PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.

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2.0.8 QUALITY ASSURANCE. The government procedures to verify that services being performed by the Contractor are performed according to acceptable standards.

2.0.9 QUALITY ASSURANCE SURVEILLANCE PLAN (QASP). An organized written document specifying the surveillance methodology to be used for surveillance of contractor performance.

2.0.10 QUALITY CONTROL. All necessary measures taken by the Contractor to assure that the quality of an end product or service shall meet contract requirements.

2.0.11 SUBCONTRACTOR. One that enters into a contract with a prime contractor. The Government does not have privity of contract with the subcontractor.

2.0.12 WORK DAY. The number of hours per day the Contractor provides services in accordance with the contract.

2.0.13 WORK WEEK. Monday through Friday, unless specified otherwise.

2.1 ACRONYMS:

| | |
|----------|---|
| ADLS | Advanced Distributed Learning System |
| AF | Air Force |
| AFARS | Army Federal Acquisition Regulation Supplement |
| AFECC | Air Force Entry Control Card |
| AFI | Air Force Instruction |
| AFPD | Air Force Policy Directive |
| AR | Army Regulation |
| ASHRAE | American Society of Heating, Refrigerating and Air-Conditioning Engineers |
| AT/OPSEC | Antiterrorism/Operational Security |
| BAC | Battlefield Airman Center |
| BO | Base Operations |
| CBT | Computer Based Training |
| CFR | Code of Federal Regulations |
| CM | Contract Manager |
| COMSEC | Communication Security |
| CONUS | Continental United States (excludes Alaska and Hawaii) |
| COOP | Continuity of Operations Planning |
| COR | Contracting Officer Representative |
| COTS | Commercial-Off-the-Shelf |
| CRTC | Combat Readiness Training Center |
| DA | Department of the Army |
| DD | Department of Defense Form |
| DDC | Direct Digital Control |
| DFARS | Defense Federal Acquisition Regulation Supplement |
| DoD | Department of Defense |

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| | |
|-----------|---|
| EPA | Environmental Protection Agency |
| FAA | Federal Aviation Administration |
| FAR | Federal Acquisition Regulation |
| FPCON | Force Protection Condition |
| GBIA | Gulfport/Biloxi International Airport |
| GFP/M/E/S | Government Furnished Property/Material/Equipment/Services |
| IA | Information Assurance |
| IAW | In Accordance With |
| JPAS | Joint Personnel Adjudication System |
| KO | Contracting Officer |
| OCI | Organizational Conflict of Interest |
| ODC | Other Direct Costs |
| OPLAN | Operation Plan |
| OPSEC | Operational Security |
| PII | Personally Identifiable Information |
| PIPO | Phase In/Phase Out |
| PPE | Personal Protective Equipment |
| POC | Point of Contact |
| PRS | Performance Requirements Summary |
| QA | Quality Assurance |
| QAP | Quality Assurance Program |
| QASP | Quality Assurance Surveillance Plan |
| QC | Quality Control |
| QCP | Quality Control Program |
| SF | Security Forces or Standard Form |
| SOW | Statement of Work |
| TE | Technical Exhibit |
| TVSS | Transient Voltage Surge Suppressor |
| U.S. | United States |
| USAF | United States Air Force |

3.0 Government Furnished Property, Material, Equipment and Services (GFP/M/E/S): The Government will provide the property, material, equipment, and/or services listed below solely for the purpose of performance under this contract:

3.1 Property: NONE

3.2 Materials: NONE

3.3 Equipment: NONE

3.4 Services: NONE

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3.5 Utilities: All utilities in the facility will be available for the contractor's use in the performance of this contract. The contractor shall instruct employees in utilities conservation practices. The contractor shall operate under conditions that preclude the waste of utilities, which include turning off the water faucets or valves after using the required amount.

4.0 Contractor Furnished Property, Materials, and Equipment (CFP/M/E):

4.1 General: Except for those items specifically stated to be Government-Furnished in Paragraph 3.0, the contractor shall furnish everything required to perform these services as indicated in Paragraph 1.1.

4.2 Material Submittals: The contractor shall submit to the CO for approval all items listed on Material Submittal Schedule, AF Form 3000 within 10 calendar days of the notice to proceed - or - provide a copy of the AF Form 3000 indicating when each material submittal shall be submitted for approval. Ensure that any disapproved material submittal will not impact the approved project execution schedule, as disapproved submittal shall not be considered grounds for a time extension. Allow for a minimum of 5 calendar days for the Government's processing of material submittals. The contractor shall not order, deliver or install any materials without CO's material approval or remove any materials on site, which have not been properly approved.

4.2.1 Construction materials must meet all required NFPA and UL requirements.

5.0 Requirements: The contractor shall provide all furnishing all labor, equipment, tools, appliances, transportation, materials, and quality control reports required to perform modifications to Hangar Fire Suppression Systems. The work consists of three main items and a single secondary item. The main items include 1.) reprogramming/reconfiguring the foam releasing panel, 2.) replacing the manual foam releasing stations and conduits, and 3.) installing Surge Protection Devices (SPD) (also referred to as a transient voltage surge suppressor (TVSS)). The secondary item is to provide HVAC in the foam room.

5.0.1 Contractor shall field verify all site conditions, quantities, measurements, and project requirements.

5.0.2 Contractor shall protect all structures, utilities, vegetation, sidewalks and vehicles from damage at all times. Replace all damaged materials with new materials to the satisfaction of the Government, at no additional cost to the Government.

5.0.3 Contractor shall bring any differing site conditions or unforeseen project conditions to the attention of the CO immediately. Differing site conditions, which may alter the scope of work, shall be approved by the CO prior to such work being performed.

5.0.4 Contractor shall ensure these steps are followed: Prior to performing any work, disable the foam releasing system. Notify the fire department at least 24 hours in advance that the hangar bay fire suppression systems are going to be disabled. All other fire suppression systems should remain active. No Aircraft shall be in the hangar bay while this work is performed without prior written approval by the Base Civil Engineer.

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5.1 Reprogram/Reconfigure Releasing Panels

5.1.1 Hangar bay with pre-action sprinkler –

- A. Verify that the foam releasing panel is not configured to release foam if the pressure switch in the pre-action sprinkler riser is activated.
- B. If the panel is configured to release foam from a pressure switch activation, reprogram/reconfigure the releasing panel to remove this function. The riser pressure switches should cause an alarm but not activate any foam release solenoids.

5.1.2 Hangar bay with multiple foam risers –

- A. Verify that the foam releasing panel is not configured to release foam if the pressure switch in one foam riser is activated.
- B. If the panel is configured to release foam from a pressure switch activation, reprogram/reconfigure the releasing panel to remove this function. The foam riser pressure switches should cause an alarm but not activate any release solenoids.

5.1.3 Test that the activation of a pressure switch or an individual heat detector will not activate the foam system.

5.1.4 Test that the activation of cross zoned heat detectors will activate the foam system.

NOTE: SYSTEM MAY BE TESTED WITHOUT ACTUAL DISCHARGE OF WATER OR FOAM.

5.2 Replace manual foam releasing (start) stations, abort stations, and conduit

5.2.1 Demo all existing releasing stations, associated wiring and conduits as required.

5.2.2 Install new water tight ¾” conduit and junction boxes from the releasing stations to a height of 15 feet above the finished floor or until the conduit intersects a horizontal run. Route the conduit into the bottom of the manual foam releasing stations.

- A. Provide the low point of this conduit with a drain (See figure 1).
- B. Where the conduit is in a hazardously classified area, Provide breathers in isolated portions of the conduit (e.g. sealed off from the remaining conduit system). Rate drains and breathers for the electrical (hazard) classification in which they are installed, but not be less than NEMA 250 Type 4. Flexible conduit is not permitted.

5.2.3 Install new NEMA 250 Type 4 manual foam releasing stations and signage.

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- A. The releasing stations shall be distinctively different from the manual fire alarm pull stations.
- B. Provide tamper cover with colored portions in yellow and lettering on the cover reading "FOAM"; the words "FIRE", "ALARM", or "AGENT" are prohibited to appear on the cover or station.
- C. Provide locking type manual foam releasing stations that when activated require a key to be reset.
- D. Provide a clear plastic tamper cover over the manual foam releasing station that when lifted emits an audible alarm. Exception: Audible alarm is not required where a manual foam releasing station is installed in a hazardous (classified) location.
- E. Provide conventional manual foam releasing stations. Do not locate addressable monitor modules for the manual foam releasing stations in the hangar bay. Approved model is RSG RMS-EX-WP or approved equivalent.

5.2.4 Install manual foam releasing stations within the hangar bay so they are unobstructed, readily accessible, and located within 10 ft. (3.0 m) of each required exit or exit access from the hangar bay.

- A. Maintain a minimum separation distance of 5 ft. (1.5 m) between general fire alarm pull stations (if provided) and the manual foam releasing stations.
- B. Where possible, install the manual foam releasing stations on the opposite side of the door from the general fire alarm pull stations. If possible locate the releasing station and sign so that a future abort station and sign may be installed per figure 1.
- C. Control valves shall be electrically supervise normally open control valves. Electrical or mechanical supervision is not required for normally closed control valves, unless opening the valve is detrimental to the system operation. When supervision is required on normally closed valves, provide electrical supervision such as cable type monitoring.

5.2.5 Provide the sign for the manual foam releasing station with a yellow or lime-yellow background with "START FOAM SYSTEM" in red lettering not less than 3 inches (76 millimeters) high. The sign a minimum of 24 inches (610 mm) high by 20 inches (508 mm) wide.

- A. Locate the manual foam releasing station with tamper cover on the lower portion of the sign.
- B. Provide the word "START" in minimum 1 inch (25.4 mm) high green lettering placed directly above the manual foam releasing station.

5.2.6 Install new abort buttons and signage at each foam releasing station.

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- A. Locate the station on the support side of the door, such that it is within 5 ft. (1.5 m) of the door and not obstructed when the door is fully open.
- B. Provide a red mushroom type push button and include the word "PUSH".
- C. Provide the colored portions of the station and tamper cover in blue and lettering reading "ABORT"; the words "FIRE", "ALARM", or "AGENT" are prohibited to appear on the cover or station.
- D. Do not locate addressable monitor modules for the manual foam abort stations in the hangar bay.
- E. Provide the sign for the manual foam abort station with a white background and a minimum 1/2 inch wide blue border with "ABORT FOAM SYSTEM" in blue lettering not less than 3 inches (76 millimeters) high.
- F. Locate the manual foam abort station with tamper cover on the lower left portion of the sign.
- G. Provide the word "ABORT" in minimum 1 inch (25.4 mm) high red lettering placed directly above the manual foam abort station.

5.2.7 Install new wire as required.

- A. All conductors must be 16 AWG minimum.
- B. Pull all conductors splice free; conductors shall be continuous from device to device.
- C. The use of wire nuts, crimped connectors, or twisting of conductors is prohibited.

5.2.8 Test the system in accordance with the procedures outlined in NFPA 72.

- A. The tests shall be witnessed by the Owner's Representative and test results recorded.
- B. The required tests for the releasing station circuits are as follows:
 - 1. Loop Resistance Tests: Measure and record the resistance of each circuit with each pair of conductors in the circuit, short-circuited at the farthest point from the circuit origin.
 - 2. Verify the absence of unwanted voltages between circuit conductors and ground.
 - 3. Visually inspect wiring.
 - 4. Test each release station and circuit for proper operation and response at the control unit and tested in accordance with manufacturer's recommended calibrated test method.

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5.3. Install Surge Protection Devices

5.3.1 Contractor shall install Surge Protection Devices (SPDs) to protect all power supply circuits to the Fire Alarm and Foam releasing panels, including any subpanels (e.g. Autonomous Control Unit, amplifier panels, and Notification Appliance Circuit (NAC) booster panels).

- A. Provide SPDs to protect all signaling line circuits, indicating device circuits, or notification appliance circuits that leave or enter a Facility's exterior enclosure.
 - 1. SPD must be provided at the first location where connections are made that is close to where the circuit enters or leaves the Facility, prior to connection to any other devices when feasible.
 - 2. SPDs are not required for devices connected directly to the Facility exterior when the Facility itself is provided with lightning protection (i.e. an electric bell or speakers mounted on the exterior wall of the Facility.)
 - 3. SPD shall have both a UL 1449 and UL 1283 listing and shall be located in an adjacent terminal box unless the SPD is listed and installed in the control panel by the factory (e.g. Installing SPDs not listed with the panel is prohibited).
 - 4. A typical installation is shown in figure 2.
- B. Provide and install SPDs in accordance with UFC 3-520-01 Section 3-4, NFPA 780-28 Section 4.20., and NFPA 70 National Electric Code.

5.4 HVAC for Foam Room with Releasing Panel

5.4.1 Contractor shall install a split unit to provide HVAC in each room with a Releasing Panel.

- A. The contractor shall size the equipment based on current loading in each room.
- B. The unit shall provide HVAC to provide a temperature range between 60 degrees Fahrenheit and 80 degrees Fahrenheit.
- C. Winter operations is required.
- D. The relative humidity requirements (RH) of the unit shall provide a maximum RH of 80%.
- E. Integrate HVAC controls into buildings direct digital control (DDC) system.

5.5 Damages: The contractor shall repair or replace any Government property that is properly marked, and damaged by the contractor at no additional expense to the Government. For any work that may require digging, an approved AF Form 103 must be obtained before any digging

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begins. The contractor will not be liable for damage to equipment that isn't properly marked. The Contractor shall obtain an approved Work Clearance Request for all work which involves excavation including minor digging. The Contractor shall coordinate the required base CE digging permits with the KO or COR.

5.6 Environmental Protection: The contractor shall be knowledgeable of and comply with all applicable Federal, State, and local laws, regulations, and requirements regarding environmental protection. The contractor shall ensure policies and procedures are established that protect the health and safety of employees and the community and minimize/eliminate the risk of environmental pollution.

5.6.1 Notification of Environmental Spills. If the contractor spills or releases any substance listed in 40 CFR 302 into the environment, the contractor shall immediately report the incident to the COR, base fire department, and base civil engineering. The contractor shall be liable for containment and environmental clean-up of the spill or release of such substance per Operational Plan (OPLAN) 32-7, Oil and Hazardous Substance Spill prevention and Response Plan.

5.6.2 Hazardous Material (HAZMAT): All HAZMAT contemplated for use or brought on base for the purpose of this contract must be coordinated through HAZMAT Pharmacy. Contractor shall submit the Contractor Hazardous Material Identification Form Part I, which provides information required by (EPCRA Sections 312 and 313) along with corresponding Material Safety Data Sheets (MSDS), to the Contracting Officer and QAP prior to bringing and using any hazardous materials on base. Contractors must maintain a copy of all MSDS at the work site at all times that work is being performed. Contractor shall submit 2 days prior to final acceptance the Contractor HM Identification Form Part II. Failure to comply with these requirements may result in a withholding of payment.

5.7 Safety: The Contractor shall comply with all base fire, safety, and confined spaced regulations while completing their work. In accordance with FAR 52.236-13, Accident Prevention, Contractors are required to comply with EM 385-1-1, U.S. Army Corps of Engineers Safety and Health Requirements Manual. Complete text of this manual can be viewed or downloaded at

<http://cdm16021.contentdm.oclc.org/cdm/compoundobject/collection/p16021coll9/id/54/rec/1>

5.7.1 Accident Notification: Notify the KO and COR as soon as practical, but no more than four hours after any accident meeting the definition of Recordable Injuries or Illnesses or High Visibility Accidents, property damage equal to or greater than \$2,000, or any weight handling equipment accident. Within notification include contractor name; contract title; type of contract; name of base or location where accident occurred; date and time of accident; names of personnel injured; extent of property damage, if any; extent of injury, if known, and brief description of accident (to include type of construction equipment used, personal protective equipment (PPE) used, etc.). Preserve the conditions and evidence on the accident site until the Government investigation team arrives on-site and Government investigation is conducted.

5.7.2 Accident Reports: Conduct an accident investigation for recordable injuries and illnesses, for Medical Treatment property damage accidents resulting in at least \$20,000 in damages, and

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near misses as defined in EM 385-1-1, to establish the root cause(s) of the accident. The COR will provide copies of any required or special forms.

6.0 Applicable Publications: All work performed under this SOW shall be conducted in accordance with applicable state and federal laws and regulations, ANG policies and regulations.

6.0.1- UFC 3-600-01- Fire Protection Engineering For Facilities

6.0.2- UFC 4-211-01- Aircraft Maintenance Hangars: Type I, Type II and Type III

6.0.3- NFPA 11 – Standard for Low-, Medium-, and High-Expansion Foam

6.0.4- NFPA 16 – Standard for Foam-Water Sprinkler and Foam-Water Spray Systems

6.0.5- NFPA 70 – National Electrical Code

6.0.6- NFPA 72 – National Fire Alarm and Signaling Code

6.0.7- NFPA 409 – Standard on Aircraft Hangars

6.0.8 – ANG ETL 10-03 Air National Guard Design Objectives and Procedures

6.0.9- ANG ETL 11-11 Reducing Inappropriate Hangar Fire System Activations

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TECHNICAL EXHIBIT 1**

Statement of Work Requirements Summary

This Statement of Work Requirements Summary includes Work Standards. The Government will use these standards to determine contractor performance in accordance to this SOW.

| SOW Paragraph | Task | Work Standards Reference | Surveillance Method / By Whom |
|------------------|--|--|---|
| 5.1, 5.1.1-5.1.4 | Reprogram/Reconfigure Releasing Panels | 5.1.1-A&B, 5.1.2- A&B, 5.1.3, 5.1.4 | Periodic Inspection - COR / Government Inspector |
| 5.2, 5.2.1-5.2.8 | Replace manual foam releasing (start) stations, abort stations, and conduit. | 5.2.1, 5.2.2-A&B, 5.2.3-A,B,C,D,E 5.2.4-A,B,C 5.2.5-A&B, 5.2.6-A,B,C,D,E,F,G 5.2.7- A,B,C 5.2.8-A,B(1,2,3,4) | Periodic Inspection - COR / Government Inspector |
| 5.3, 5.3.1 | Install Surge Protection Devices | 5.3.1-A(1,2,3,4) &B | Periodic Inspection - COR / Government Inspector |
| 5.4. 5.4.1 | HVAC for Foam Room with Releasing Panel | 5.4.1 A,B,C,D | Periodic Inspection - COR / Government Inspector |

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TECHNICAL EXHIBIT 2**

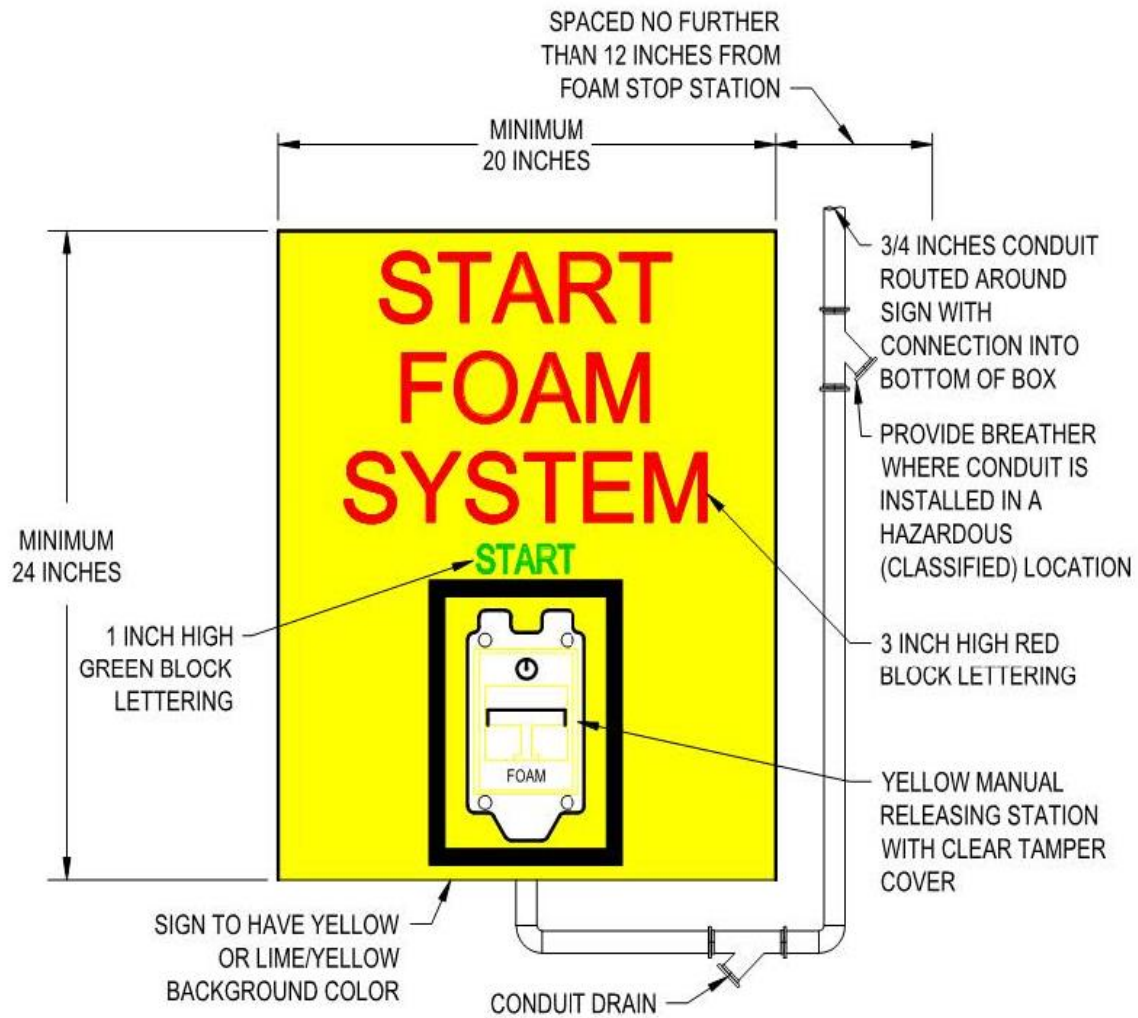
Deliverables Schedule

| SOW Reference / Deliverable Title | Frequency | Number of Copies | Medium/Form at | Submit To |
|---|--|--|--------------------------|-----------------------------|
| 1.4.5.4.1 (1) MSCRTC Contractor/Subcontractor Access Affidavit Form | Due two weeks prior to scheduled start date. | (1) One per employee requiring access to Gulfport-CRTC | Electronic | COR or POC of project |
| 1.4.5.3 Anti-Terrorism (AT) Level I Awareness Training | Contractor shall complete AT Level I awareness training within 10 calendar days after contract start date. | (1) One per employee requiring access to Gulfport-CRTC | Electronic | COR or KO |
| 1.4.6 Operational Security (OPSEC) Training | Contractor shall complete AT Level I awareness training within 10 calendar days after contract start date. | (1) One per employee requiring access to Gulfport-CRTC | Electronic | COR or KO |
| 1.4.9 Solid Waste Management | Upon disposal | One per disposal | Electronic | COR or POC of project |
| 1.4.10 Warranty | Due during Final Inspection | Three | Electronic and Hard Copy | COR, KO, and POC of project |
| 4.2 Material Submittals | AF Form 3000 within 10 calendar days of the notice to proceed | (1) One for all materials to complete project | Electronic | COR and POC of project |
| 5.7.1 Notification of Environmental Spills | Within (1) one hour of Spill | (1) One per spill | Electronic or Verbal | COR and POC of project |
| 5.7.2 Hazardous Material (HAZMAT): | 5 business days prior to Hazardous Material being brought onto Gulfport- CRTC | (1) One for all materials to complete project | Electronic | COR and POC of project |
| 5.8.1 Accident Notification: | Within (1) one hour of Accident | (1) One per Accident | Electronic or Verbal | COR and POC of project |
| 5.8.2 Accident Reports: | Within (1) one Business day from Accident | (1) One per Accident | Electronic | COR and POC of project |

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FIGURE 1

Figure 1: Start Foam System Signage



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Figure 2

