

**45TH SPACE WING
PATRICK AIR FORCE BASE, FLORIDA**

STATEMENT OF WORK FOR

**INSPECTION TESTING MAINTENANCE &
CLEANING OF GREASE LADEN VAPOR
EXTRACTION SYSTEMS
(KITCHEN HOOD & DUCT EXHAUST SYSTEMS)
WET/DRY CHEMICAL FIRE SUPPRESSION
SYSTEMS & 150 LB. HALON 1211 FLIGHTLINE
FIRE EXTINGUISHERS**

September 3, 2003

**45 CIVIL ENGINEERING SQUADRON
(45CES/CEOE, 45 CES/CEF)**

1. **DESCRIPTION OF SERVICES:** Contractor shall provide all management, tools, supplies, equipment and labor necessary to inspect, clean, maintain and repair kitchen exhaust systems and wet/dry suppression systems as well as inspect, service, certify and maintain all of the wheeled 150 lb halon 1211 flight line fire extinguishers located on Patrick Air Force Base, FL. All services will be accomplished IAW with the National Fire Prevention Association Fire Codes (NFPA), Air Force Instructions (AFI), Department of Defense Instructions (DoDI), Occupational Safety and Health Administration (OSHA), any other applicable recognized National Consensus Standards, and to the acceptance of both the QAE and the Assistant Chief of Fire Prevention.

1.1 BASIC SERVICES KITCHEN EXHAUST SYSTEMS:

Contractor shall inspect, clean and maintain hood and duct systems in accordance with NFPA Standards 17, 96, 45th Space Wing Instruction 32-2001, manufacturers instructions, and applicable local, state, and federal rules and procedures as well as to the satisfaction of the QAE and the Assistant Chief of Fire Prevention. The contractor shall submit a documented report to the QAE, and the fire prevention office on all hood, duct, and exhaust systems at the completion of any work. The report will be on a CD in the form of an EXCEL document format viewable on Fire Department Personal Desktop Computers.

- 1.1.1 Inspect each hood and duct exhaust system IAW NFPA Standard 96 (NFPA 96 lists numerous other NFPA and ASTM publications for adherence) and the manufacturer's instructions.
- 1.1.2 Perform operational tests on hood and duct exhaust systems IAW NFPA Standard 96 and manufacturer's procedures.
- 1.1.3 Perform recurring preventive and corrective maintenance on hood and duct exhaust systems IAW NFPA Standard 96 and the manufacturer's procedures. Work is to include but not be limited to.
 - A. Clean hoods inside and out.
 - B. Clean grease filters and filter racks.
 - C. Clean connected ducts from hood to roof.
 - D. Clean fan, fan blades, fan housing and supports.
 - E. Clean attached louvers, deflectors and dampers.
 - F. Disassemble, clean, and reassemble spray nozzles on self-cleaning hood systems.

- G. Remove all loose rust, treat and repaint.
- H. Perform other actions necessary to ensure that kitchen exhaust hoods are clean/serviceable and self-cleaning system nozzles are clean and operating properly.
- I. Protect all adjacent equipment during cleaning/painting process.
- J. Move any objects obstructing necessary access to system.
- K. Contractor shall provide their own fire extinguisher of ABC dry chemical type, 18 pounds or more, for extinguishment of any fire that may occur during maintenance.

- 1.1.4** Perform all work in strict accordance with the highest safety standards and applicable codes in order to eliminate the possibility of damage to installed machinery, equipment and building structures.

Contractor shall submit a report on all inspection, maintenance, and cleaning that is accomplished on hood and duct exhaust systems. Reports shall include a record of conditions, completed tests, inspections results, and preventive or corrective maintenance performed on a system. A copy of this report is due to government QAE, and the Fire Protection Flight Fire Prevention Section within 7 calendar days after the completion of the inspection and/or work. The report will be on a CD in the form of an EXCEL document format viewable on Fire Department Desktop Personal Computers.

- 1.1.5** Contractor shall be responsible to repair or replace any property or equipment, or portion of a structure or vehicle that is damaged during services performed under the scope of this contract.

- 1.2 SCHEDULE/FACILITIES:** Contractor shall submit a work schedule to both the Government QAE and the Fire Protection Flight Fire Prevention Section 7 days before starting work. The contractor shall coordinate work through the using agencies listed on Technical Exhibit A. These facilities will be done once a quarter, with the exception of the Child Development Center (bldg. 946), which will only require cleaning on a semi-annual basis. The work will be accomplished during the 1st week of the new quarter, unless circumstances prevent such, and prior approval is obtained from the facility manager. The work will be performed after hours. The QAE and Fire Protection Flight Fire Prevention Section will be notified of any schedule changes. If deemed necessary by the facility manager, the QAE, or the Fire Protection Flight Fire Prevention Section the contractor may be called out to clean a system on an emergency case-by-case basis. If so contacted the contractor shall have a maximum of 2 hours to respond to the request and schedule a time to perform the work.

2.0 DRY & WET CHEMICAL SUPPRESSION SYSTEMS SERVICES:

Contractor shall inspect, test, clean and maintain all wet/dry chemical pre-engineered fire suppression systems on Patrick AFB IAW NFPA Standards 1,17,70, 72,96, United Facilities Criteria (UFC) 3-600-02, 45th Space Wing

Instruction 32-2001 and applicable local, state, and federal rules and manufacturer's procedures, as well as to the acceptance of both the QAE and the Assistant Chief of Fire Prevention.

2.1 Contractor shall submit a report detailing what was accomplished during inspections, testing and maintenance performed on pre-engineered installed wet/dry chemical fire suppression systems. A copy of this report is due to government QAE and to the Fire Protection Flight Fire Prevention Section within 7 calendar days after the completion of the inspection and/or work. The report will be on a CD in the form of an EXCEL document format viewable on Fire Department Desktop Personal Computers.

2.2 SCHEDULE/FACILITIES: Contractor shall submit a work schedule to Government QAE and the Fire Protection Flight Fire Prevention Section, 7 days before starting work. The Contractor shall coordinate work through the using agencies listed on Technical Exhibit B. These facilities will have semi-annual inspections that include the requirements for annual and 5-12 year inspections listed in the publications mentioned in the preceding paragraph.

3.0 QUALIFICATIONS: All inspectors and maintenance technicians shall have at least five years experience inspecting/maintaining kitchen exhaust and dry/wet chemical fire suppression systems. Contractor shall be fully capable of performing all electrical work in maintaining and repairing dry/wet chemical fire extinguishing systems and auxiliary components such as installing, replacing, or repairing local alarms and contactors for automatic shutdown of heat producing cooking equipment. The supervisor shall hold a NICET II certification, and all personnel who work on the extinguishing systems shall hold a NICET I certification, or shall be able to demonstrate to the satisfaction of the Fire Protection Flight Fire Prevention Section that they have the capability, expertise, and experience to perform the work.

4.0 Replacement Parts: Before replacing any defective fire extinguishing or kitchen exhaust system component, the Contractor shall notify the Contracting Officer or designee immediately, by telephone, describing the item and replacement cost. All parts used shall be listed or approved by a nationally recognized testing lab. If the Government determines the contractor's cost of the component requiring replacement to be excessive, the Government reserves the right to provide the component to the contractor for installation.

5. Halon 1211 Flightline Fire Extinguishers Services.

IAW the manufacturers instructions, the National Fire Prevention Association Fire Codes, Air Force Instructions, Department of Defense Instructions, OSHA, and other applicable recognized National Consensus Standards, the contractor shall be responsible for performing all required inspections, testing, maintenance, servicing, cleaning and corrosion control on 40 ea. 150 lb. Wheeled Halon 1211 Flightline Fire Extinguishers,

located on Patrick Air Force Base. All 40 extinguishers shall be maintained in a fully operational status at all times.

5.1 Statement of Service: The contractor shall provide, except as identified as government provided items and services, all tools, supplies, equipment, and labor necessary to inspect, test, label, mark, repair, clean, service, and maintain the wheeled 150 lb. Halon 1211 flightline fire extinguishers on Patrick AFB. The contractor shall coordinate the required services and completion of services with the Fire Prevention Office.

5.2 IAW with this contract, all of the 150 lb. Halon 1211 flightline fire extinguishers on PAFB shall be maintained in a fully operational status in accordance with National Fire Protection Association (NFPA) Codes and Standards, specifically, NFPA 10, manufacturers operating instructions and to the satisfaction of the Patrick AFB Fire Protection Flight, Fire Prevention Office.

5.3 If one of the 150 lb. Halon 1211 flightline fire extinguishers is found to be out of service, and cannot be returned to fully operational status within 24 hours of notification, the contractor shall notify the Fire Prevention Office ASAP and provide an estimated time required to restore the extinguishers to a fully operational status.

5.4 Inspection: A confirmation that an extinguisher is available and will operate as designed. It is intended to give reasonable assurance that the extinguisher is fully charged and operable.

5.4.1 Inspections are performed by ensuring that each extinguisher is in its assigned and proper location, that it has not been actuated or tampered with, that there is no obvious physical damage, corrosion or other condition that would prevent proper and timely operation.

5.4.2 The inspection shall ensure that the required inspection tag and tamper seal is in place, and the tag is properly dated, and signed/initialed. All inspections shall comply with NFPA 10, as well as any applicable or pertinent guidance, and shall be done to the satisfaction of the Assistant Chief for Fire Prevention.

5.4.3 Monthly: The contractor shall inspect each and every one of the 150 lb. Wheeled halon 1211 flightline fire extinguishers on PAFB. As a part of the monthly inspection, the contractor shall weigh each of the 150 lb. Halon 1211 flightline fire extinguishers. The weight will be recorded on a monthly inspection report and the contractor shall provide a copy of that report to the Fire Protection Flight Fire Prevention Section on a CD in Microsoft Office Excel Format. On a monthly basis, the contractor shall apply a coating of a commercial marine grade salt neutralizer and rust inhibitor such as "Salt Away" to each extinguisher.

5.4.4 The contractor shall provide the 45 CES/CEF Fire Protection Flight Fire Prevention Section with a computer generated progress report on the inspections performed that month, in a Microsoft Excel format on a Compact Disk (CD). The report shall be delivered to the Fire Protection Flights Fire Prevention Section not later than 5 business days into the next month. The report shall indicate the location of the extinguisher at the time of the inspection, (e.g. 750 ramp, bldg. 647 etc...), the serial number, the FD identification number, and the approximate

condition of each unit, 6-year maintenance date, hydrostatic test date, size/weight, agent type, and gross weight of each extinguisher. The report shall be in the form of an EXCEL document capable of being opened and read on the Fire Prevention Sections computer system, submitted on a CD.

5.4.5 All records, documents, and associated papers provided by the government or generated during the period of this contract will become government property and will be returned to the government upon contract termination or completion. "Hefting" or otherwise estimating the weight shall not be allowed.

5.4.6 Annually: (And as required by code) the contractor shall perform a comprehensive inspection on each wheeled extinguisher. The annual inspection shall also include a weight check, the results of which will be documented on the annual report. All weight checks will be performed on a certified scale.

6. Maintenance: Per NFPA 10, Maintenance is a thorough examination of the extinguisher. It is intended to give maximum assurance that an extinguisher will operate effectively and safely. Maintenance includes the necessary repair or replacement of any and all missing or damaged parts, (to include tires, rims, pins, hoses, nozzles, frames, bottles, gauges, operating handles, burst discs, axles, etc. on the 150 LB. halon 1211 flightline fire extinguishers), inspection tags, tamper seals, safety pins, annual certification tags, weight checks, corrosion control, painting, (to include all required prep work, sandblasting, sanding, high quality highly weather/and corrosion resistant paint (such as IMRON) and/or finish (Fire Engine Red), and sealer, proper type of expelling agent and pressure, and proper type and amount of extinguishing agent). The examination will normally reveal if hydrostatic testing is required. Hydrostatic testing and 6-year maintenance will be performed as specified by the manufacturer and the appropriate national consensus standards (should the Fire Protection Flight acquires 40 new extinguishers neither 6-yr maintenance nor the 12 year hydrostatic test will be required under this contract, if not, then all 24 of the existing extinguishers will require hydrostatic testing next year)

6.1 Recharging: The replacement of the extinguishing agent and the associated expellant agent or agent cartridge.

6.2 All halon 1211 extinguishing agent required to service or re-service the 150 lb halon 1211-wheeled flightline fire extinguishers will be provided to the contractor by the 45 CES/CEF Fire Prevention Section.

6.3 Out of Service: The contractor shall immediately notify the 45 CES/CEF Fire Protection Flight if any extinguishers are missing, damaged, appear to have been discharged, tampered with, or that exhibit any other discrepancies that would prevent their safe operation or failure to comply with code.

6.4 Inspection Tags: All documentation shall be IAW NFPA 10, AFOSH Standard 91-501, 45 SWI 32-2001, and UFC-3-600-02. At the time of initial installation and during the annual inspection the contractor shall place a tag/sticker on each extinguisher, that as a minimum, indicates the name of the company, contact information, the name of the technician performing the inspection, the date the inspection was performed, the due date for the next inspection, the 6-year maintenance due date, the hydrostatic test due date, the

condition of the extinguisher, the weight of the extinguisher, and any repairs/maintenance which were performed.

6.5 Per NFPA 10, any time the head of an extinguisher is removed for maintenance/inspection/re-charging, a non-destructible, non-removable, permanent collar shall be installed between the head of the extinguisher and the bottle, indicating the date the maintenance was performed, who did the work, and what was done. An itemized list indicating the cost of each part and the labor charge for performing the work shall be included on the invoice.

6.6 Maintenance and Recharging: Comply with NFPA 10, Chapter 6.

In the event an extinguisher is removed from service for any reason, it shall be exchanged on a one-for-one basis with another of the same size, type, rating, weight, and condition as the extinguisher that was removed from service. The contractor shall notify the 45 CES/CEF Fire Prevention Section immediately upon removing an extinguisher from service. When requested by the 45 CES/CEF Fire Prevention Flight, Fire Prevention Section, the contractor shall pick up any extinguishers which have been identified as requiring maintenance, inspection, or that have been tampered with/discharged, or rendered out of service for any reason. The contractor shall complete repairs and return the extinguisher to fully operational status within 5 working days of notification. Non-availability of parts or equipment shall not be considered a valid excuse for non-compliance in bringing an extinguisher up to fully operational status.

6.7 Hydrostatic Testing: Hydrostatic tests shall be performed in accordance with NFPA 10, Chapter 7.

6.8 Poor Workmanship/Contractor Error: Any extinguisher that receives maintenance or service from the contractor which then begins to leak, malfunctions, or is damaged shall be either repaired or replaced at the contractor's expense.

7. This contract only applies to wheeled fire extinguishers located on PAFB. This contract shall not apply to vehicle/aircraft-mounted fire extinguishers, to extinguishers purchased and intended for deployment use, or for extinguishers installed in facilities. IAW Section 6 of AFOSH STANDARD 91-501, ensuring that vehicle and aircraft mounted extinguishers, extinguishers installed in PAFB real property facilities, in assigned vehicles, or those purchased for deployment purposes, are inspected and serviceable, is the responsibility of the using organization, and/or the facility manager, or aircraft commander, etc.

8. Hours of Operation: Inspections, pick-up or delivery of extinguishers to PAFB shall be performed between the hours of 7:30 A.M. and 4:00 P.M. Monday through Friday, excluding legal holidays, unless special arrangements are made between the contractor and the user.

9. Defender 2000 Halon Reclamation & Transfer Unit: The contractor shall ensure their technicians are trained, have the experience, and ability to reclaim halon and re-service the 150 lb. Halon 1211 wheeled, flight-line fire extinguishers utilizing the Fire Prevention Section's "Defender 2000" halon reclamation unit.

- 9.1**The 45 CES/CEF Fire Protection Flight, Fire Prevention Section, shall provide the contractor with a Defender 2000 halon reclamation/transfer unit. After providing the unit the contractor shall be responsible for any and all repairs, inspections, parts, and maintenance required. At such time that the contract ends, the contractor shall return the Defender 2000 unit back to the 45 CES/CEF Fire Protection Flight in the same condition in which they received it, e.g. clean, corrosion free, working, and like new or newly refurbished.
- 11. Scale:** The contractor shall be responsible for providing a certified scale (capable of weighing up to at least 350 lbs.), extinguishing agent (with the exception of halon), any and all specialized tools, as well as the required inspection tags/plates/collars, pins, seals, user operating instructions, and any/all other required parts, coatings, rust inhibitors, etc.
- 12. Transporting extinguishers and halon cylinders:** The contractor shall have the capability to transport both the 200 lb., and 1,500 lb. cylinders of halon 1211 back and forth from the PAFB Fire Department and their shop. The contractor shall also have the capability to pick up and transport the 150 lb. Halon 1211 flightline fire extinguishers from all the locations on PAFB, to their shop, and back. The weight of a fully charged 150 lb. Wheeled, Halon 1211 flightline fire extinguisher normally averages between 296 and 335 lbs.
- 13. Disposal:** Should an extinguisher be condemned the contractor shall be responsible for emptying the cylinder of agent and disposing of it in the same manner as he disposes of any other non-hazardous metallic waste product, with the exception of Halon 1211, which will be reclaimed and turned into the Defense Logistics Agency.
- 14. Access:** The contractor shall be responsible for obtaining the required access badges and or escort to all area on the flightline where the 150 lb. Halon 1211 flightline fire extinguishers are located, including the runway, aircraft parking ramp, hangars, taxiways, overruns, hot pit area, wash rack, POL yard, and refueling vehicle parking lot, etc. The contractor and the contractor's employee(s) must be clearly identified as such by wearing uniforms identifying the company and a picture ID.
- 15. Certification:** The contractor and his/her employee(s) shall provide proof of the required State certification for servicing fire extinguishers. All persons working on or inspecting fire extinguishers under this contract shall be NICET certified. The supervisor shall be certified to at least NICET II. Every licensed/permitted person working under this contract shall have a valid and current license/permit IAW Florida Statutes Section 633.061, for the inspection and maintenance of all type of portable fire extinguishers, upon his/her person at all times while engaging in the servicing, recharging, repairing, testing, inspecting, or installing of fire extinguishers. Every licensed/permitted person shall be required to produce such license/permit upon demand, as required by the Fire Protection Flight representative, and/or the Florida State Fire Marshall.

16. Environmental Protection: The contractor shall ensure that the purchase, use, handling, storage, spill, and disposal of all toxic, hazardous, and special materials and waste are in accordance with federal, state, and local environmental protection regulations.

17.0 General Requirements: Requirements pertaining to both Exhaust and Suppression systems.

- A. Payment: Contractor shall invoice after completion of each service. Invoices shall include contract number, invoice number and date, units per line item and total cost.
- B. Security: The Contractor and his employees shall comply with all the security and law enforcement requirements imposed by the respective local installation Commander at all times. The Contractor, subcontractor and all employees shall have access only to those areas required for execution of this work.
- C. Badging: No later than 5 days before contract start date, the Contractor shall Submit to the 45 Security Forces Squadron a 45th Security Forces Pass & Registration Badging Request Form. The badging authority must sign this form. The form will include names of prime contractor, and those of any subcontractors who will require access to the base. The list must be alphabetized and will include full names, social security numbers, citizenship (verified), length of pass (maximum of one year) of the employees, the contract number and duration of the contract. This letter must be coordinated through the contracting office. The badging authority must already have a DD Form 577 on file before submitting the Request Form.

18. Quality Control: The contractor shall provide a quality control system covering all contract requirements identified. The system shall be reviewed by government and revised as necessary at no additional cost to the government. The government shall inspect and accept services in accordance with the provided Quality Assurance Surveillance Plan (QASP). The Fire Prevention Section shall monitor the contractor's progress and quality of work by means of reviewing the inspection reports they submit, and periodically performing random inspections, to ensure the reports and that the work complies with the appropriate and applicable national consensus standards and the Performance Work Statement, to the satisfaction of the Fire Prevention Section.

19. Performance of Services During Crisis Declared by the National Command Authority: Contractor performance shall remain unchanged during periods of crisis as declared by the National Command Authority. The contract shall be for the initial year, plus four additional one-year options. Contract shall not exceed a total of five (5) years.

TECHNICAL EXHIBIT A

KITCHEN EXHAUST SYTEMS WORKLOAD AND CONTACT INFORMATION

Facilities building and phone numbers:

CLIN 1AA Bldg. 250	Officers Club	494-4012
CLIN 1AB Bldg. 350	Dining Facility	494-5614
CLIN 1AC Bldg. 732	Bowling Center	494-2958
CLIN 1AD Bldg. 946	Child Care Center	494-7028
CLIN 1AE Bldg. 967	Enlisted Club	494-7493
CLIN 1AF Bldg. 369	Burger King	494-6158
CLIN 1AG Bldg. 1492	Golf Course	494-6510

List of Kitchen Exhaust Systems in Facilities

CLIN 1AA Bldg. 250, Officers Club (once per quarter)
Two range hoods, ducts and fans.

CLIN 1AB Bldg. 350, Dining Facility (once per quarter).
One range hood, duct and fan.
Dishwasher ducts and fans.
Two short order grills w/hoods ducts and fans.
Two steam table hoods.
Two oven hoods, ducts and fans.
Four self-cleaning grease extractor systems incorporating
106 spray nozzles.

CLIN 1AC Bldg. 732, Bowling Center (once per quarter)
One range hood, duct and fan.

CLIN 1AD Bldg. 946, Child Care Center (second and fourth quarter).
One oven hood, duct and fan.

CLIN 1AE Bldg. 967, Enlisted Club (once per quarter).

One Oven hood, duct and fan.

Dishwasher ducts and fans

Serving line hood and duct.

CLIN 1AF Bldg. 1369, Burger King (once per quarter).

One fryer hood, duct and fan.

One breakfast hood, duct and fan.

One boiler hood, duct and fan.

CLIN 1AG Bldg. 1492, Golf Course (once per quarter).

Short order grill hood, duct and fan.

***THESE HOODS HAVE AUTOMATIC FIRE EXTINGUISHING SYSTEMS INSTALLED.**

TECHNICAL EXHIBIT B

WET/DRY SUPPRESSION SYSTEMS WORKLOAD AND CONTACT INFORMATION.

Facilities building and phone numbers.

CLIN 2AA	Bldg. 250	Officers Club	494-4012
CLIN 2AB	Bldg. 350	Dining Facility	494-5614
CLIN 2AC	Bldg. 732	Bowling Center	494-2958
CLIN 2AD	Bldg. 946	Child Care Center	494-7028
CLIN 2AE	Bldg. 967	Enlisted Club	494-7493
CLIN 2AF	Bldg. 1369	Burger King	494-6158
CLIN 2AG	Bldg. 1492	Golf Course	494-6510
CLIN 2AH	Bldg. 1386	Hospital Storage	494-8266
CLIN 2AJ	Bldg. 984	Hazmat Pharmacy	494-9663
CLIN 2AK	Bldg. 313	Paint Booth	494-6395

Suppression Systems in Facilities

CLIN 2AA.	Bldg. 250, Officers Club – 4 systems
CLIN 2AB	Bldg. 350, Dining Facility – 4 systems
CLIN 2AC	Bldg. 732, Bowling Center – 1 system
CLIN 2AD	Bldg. 946, Child Care Center – 1 system
CLIN 2AE	Bldg. 967, Enlisted Club – 4 systems
CLIN 2AF	Bldg. 1369, Burger King – 3 systems
CLIN 2AG	Bldg. 1492, Golf Course – 1 system
CLIN 2AH	Bldg. 1386, Hospital Storage – 1 system
CLIN 2AJ	Bldg. 984 Hazmat Pharmacy – 1 system
CLIN 2AK	Bldg. 313, Paint Booth – 2 systems

TECHNICAL EXHIBIT C

LATEST ANNUAL INSPECTION FOR 150 LB. FIRE EXTINGUISHERS

June 19 2003

Annual Inspection/Certification for the 150 lb. Halon 1211 Flight Line Fire Extinguishers
45 CES/CEF Fire Protection Flight, Fire Prevention Section, Patrick AFB FL

Group #1: The extinguishers listed below have been condemned due to severe corrosion

Red)	1, 2, 4, 5, 6, 7, 10, 14, 17, 20, 26, 28, 29, 31, 32, 33, 34, 35
Green)	26, 32, 33, 36, 40, 41, 42, 48, 52, 61, 86,
#AX21962	
Sub-Total =	30

Group #2: The extinguishers listed below have one more year of service life left due to corrosion

Red)	9, 12, 13, 15, 16, 19, 25, 27, 36
Green)	2, 6, 38
Sub-Total =	12

Group #3 The extinguishers listed below have minor corrosion and could possibly last another 3 or more years

Red)	3, 8, 11, 21, 22, 23, 24, 30
Green)	30, 27, 34, 67
Sub-Total =	12

Note! The extinguishers listed in Group #1 have been removed from service.
Total Extinguishers Condemned = 30

Note! The extinguishers listed in Groups #2 & #3, are in service at this time
Total Extinguishers in Service = 24

Total # of 150 lb. Halon 1211 wheeled flight line fire extinguishers = 54

TECHNICAL EXHIBIT D

**ANNUAL INSPECTION AND LOCATOR LIST FOR WHEELED 150 lb. HALON
1211 FLIGHTLINE FIRE EXTINGUISHERS**

150 LB HALON 1211 FLIGHTLINE FIRE EXTINGUISHER MONTHLY INSPECTION CHECKLIST							
EXT#	LOCATION	INSPECTOR	DATE	CONDITION	6 YR	HYDRO	WEIGHT
1R	810		6/19/2003	Condemned	2003	2004	180 lbs
2R	810		6/19/2003	Condemned	2003	2004	175 lbs
2G	750 Ramp		6/19/2003	In Service	2003	2004	330lbs
3R	647		6/19/2003	In Service	2003	2004	310 lbs
4R	810		6/19/2003	Condemned	2003	2004	305 lbs
5R	810		6/19/2003	Condemned	2003	2004	195 lbs
6R	810		6/19/2003	Condemned	2003	2004	180 lbs
6G	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs
7R	810		6/19/2003	Condemned	2003	2004	310 lbs
8R	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs
9R	Taxiway A		6/19/2003	In Service	2003	2004	310 lbs
10R	810		6/19/2003	Condemned	2003	2004	310 lbs
11R	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs
12R	750 Ramp		6/19/2003	In Service	2003	2004	295 lbs
13R	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs
14R	810		6/19/2003	Condemned	2003	2004	290 lbs
15R	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs
16R	Taxiway J		6/19/2003	In Service	2003	2004	310 lbs
17R	810		6/19/2003	Condemned	2003	2004	255 lbs
19R	DOS Ramp		6/19/2003	In Service	2003	2004	310 lbs
20R	810		6/19/2003	Condemned	2003	2004	0 lbs
21R	750 Ramp		6/19/2003	In Service	2003	2004	305 lbs
22R	DOS Ramp		6/19/2003	In Service	2003	2004	310 lbs
23R	DOS Ramp		6/19/2003	In Service	2003	2004	310 lbs
24R	DOS Ramp		6/19/2003	In Service	2003	2004	310 lbs
25R	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs
26R	810		6/19/2003	Condemned	2003	2004	275 lbs
27R	750 Ramp		6/19/2003	In Service	2003	2004	315 lbs
27G	750 Ramp		6/19/2003	In Service	2003	2004	315 lbs
28R	810		6/19/2003	Condemned	2003	2004	220 lbs
29R	810		6/19/2003	Condemned	2003	2004	315 lbs
30R	Washrack		6/19/2003	In Service	2003	2004	310 lbs
30G	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs

31G	810		6/19/2003	Condemned	2003	2004	310 lbs
31R	810		6/19/2003	Condemned	2003	2004	315 lbs
32R	810		6/19/2003	Condemned	2003	2004	310 lbs
32G	810		6/19/2003	Condemned	2003	2004	285 lbs
33R	810		6/19/2003	Condemned	2003	2004	310 lbs
33G	800		6/19/2003	Condemned	2003	2004	325 lbs
34R	810		6/19/2003	Condemned	2003	2004	315 lbs
34G	750 Ramp		6/19/2003	In Service	2003	2004	340 lbs
35R	810		6/19/2003	Condemned	2003	2004	0 lbs
36R	822		6/19/2003	In Service	2003	2004	310 lbs
36G	810		6/19/2003	Condemned	2003	2004	160 lbs
38G	810		6/19/2003	Condemned	2003	2004	315 lbs
M-40G	810		6/19/2003	Condemned	2003	2004	315 lbs
M-41G	810		6/19/2003	Condemned	2003	2004	180 lbs
M-42G	810		6/19/2003	Condemned	2003	2004	325 lbs
M-48G	810		6/19/2003	Condemned	2003	2004	310 lbs
M-52G	810		6/19/2003	Condemned	2003	2004	170 lbs
M-61G	810		6/19/2003	Condemned	2003	2004	290 lbs
M-67G	750 Ramp		6/19/2003	In Service	2003	2004	310 lbs
M-86G	739		6/19/2003	In Service	2003	2004	320 lbs
AX21962G	810		6/19/2003	Condemned	2003	2004	225 lbs

Note! The letter designation after the extinguisher number indicates the color of the extinguisher
e.g. 27R indicates this is a "Red" extinguisher
27G indicates "Green"

The "M" series extinguishers are the ones we picked up from Thule Greenland in July of 2002

We picked up the other 45 extinguishers from Malstrom AFB in 1998

I don't know where the AX21962G extinguisher came from?

TECHNICAL EXHIBIT E
150 lb. EXTINGUISHER INSPECTION CHECKLIST

Inspection Checklist For Amerex 150 Lb. Halon 1211 Flight line Fire Extinguishers; Refer to T.O. #13F4-4-121

Locations of extinguishers:

750 Ramp, Old Bldg. 800 Ramp, New PAX Terminal & Supply Ramp, DOS Ramp, POL Yard, Taxiways, Aircraft Parking Ramp, Nose Dock (Hanger 630), Fuel Cell Maintenance (Hanger 647), Wash rack, DOS Hangers (985/986), 920th Helicopter Hanger (750), NASA Hanger (751), Hot refuel standby position South of bldg. 810 on Taxiway Bravo, Behind bldg. 810, etc...

Monthly

- 1) Note and document the location and condition of each extinguisher
- 2) Ensure the extinguisher is used for its intended purpose, "not as a door chock for hanger doors, or as an equipment rack"**
- 3) Ensure the extinguisher is free from obstructions
- 4) Check the pressure gauge, insure the needle is in the green "200 psi" at 70 degrees F**
- 5) Check each piece/part of the extinguisher for damage, missing parts, corrosion and proper operation
- 6) Check the hose for operation, damage, insure its connected to the cylinder
- 7) Ensure the nozzle is closed and the discharge opening free from any foreign matter
- 8) Ensure the pin and safety seal are in place
- 9) Check the cylinder for corrosion, physical damage, and cleanliness
- 10) Ensure the tires are fully inflated, that tire rims are undamaged, and that the cotter pin holding them on is in place and undamaged
- 11) Weigh each extinguisher and record that weight on the monthly inspection report.
- 12) Spray Coat 100% of each extinguisher with a commercially available salt neutralizer and rust preventative such as "Salt Away".

Annually

Perform the annual in depth inspection on each unit in the 12th month of the contract, I.A.W. NFPA 10 and the manufacturers instructions.

Notes!

Any discrepancies will be documented on the inspection checklist

Any damaged, low pressure or otherwise "out of service" extinguishers will be taken to the fire station and placed to the West of the extinguisher shed

Upon completion of the Monthly inspection checklist, turn it in to the Assistant Chief of Fire Prevention

The "Ready Line" of charged and serviceable extinguishers will be maintained on the "Crash" (West) side of the fire station adjacent to the shed

Extinguishers on the "Ready Line" will be secured at all times by means of a cable or chain and a padlock! Extinguishers will not be moved into or out of the "Ready Line" without the knowledge and permission of the fire prevention office.

A log will be maintained in the fire prevention office and each time a bottle is moved in or out it will be documented in the logbook!

SERVICE DELIVERY STATEMENTS

INSPECTION, TESTING, MAINTENANCE, CLEANING OF THE GREASE LADEN VAPOR EXHAUST SYSTEMS (HOOD & DUCT SYSTEMS, AND THE PRE-ENGINEERED INSTALLED FIRE SUPPRESSION SYSTEMS

Document Submittal. Timely and complete submittal of service schedules and maintenance reports.	1.1.5 1.2 2.1	100% on time and complete
Exhaust System Cleaning Systems shall be free of all grease, dirt, lint, dust, and other combustible foreign matter.	1.1 1.1.3	No more than 1 customer complaint.
Operating Exhaust Systems. All exhaust systems shall be reassembled and fully operable with proper exhaust airflow.	1.1 1.1.3	100% operable
Suppression Systems Detection devices are clean and free of contamination.	2.0	No more than 1 customer complaint

INSPECTION TESTING AND MAINTENANCE OF THE 150 LB. HALON 1211 EXTINGUISHERS

Document Submittal. No later than 5 duty (work) days into the following month	5.4.3, 5.4.4, 5.5.5	100% on time and complete 0 customer complaints
Monthly Inspection. Completed prior to close of business (1600 hrs.) on the last duty day of the month	5.4.3, 5.4.4	100% on time and complete 0 customer complaints
Annual Inspection. Completed prior to close of business on the last duty day of the fiscal year	5.4.6	100% on time and complete 0 customer complaints