

ANNEX 4.5

FIRE PROTECTION SERVICES

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4.5.1 GENERAL REQUIREMENTS

4.5.1.1 Ambulance Services

Ambulance services are required by this Annex and will necessitate the staffing of the fire department with a minimum of two Emergency Medical Technicians (EMT) per shift.

4.5.1.2 Reference and Technical Documents

The Contractor shall comply with all referenced requirements in official publications listed in ****SPG 8838.2**** as they apply to the services covered by this specification. All references shall be acquired and maintained in a fire department ready reference library for day-to-day use by the fire protection personnel as needed.

4.5.1.3 Self Contained Breathing Apparatus (SCBA) Program

The contractor shall develop and operate a Breathing Air Program, including the test and maintenance of all related equipment, supplies, air quality, and the filling of SCBAs.

4.5.2 WORK SCHEDULE

4.5.2.1 Routine

Fire protection services shall be provided on a 24 hour per day, 7 days/ week, 52 weeks/year basis, including holidays. The initial work schedule for applicable routine tasks shall be submitted to the CO for approval no later than 7 days after the contract award. Once approved, all work shall be performed in strict compliance with the work schedule to facilitate the Government's inspection of the work. If any changes occur with respect to the initial work schedule, resubmit a revised schedule to NASA for approval.

4.5.2.2 Shiftwork

Since it is the intention of NASA to minimize work performed at night in order to meet federally mandated energy conservation goals, except as may otherwise be specified, all work shall be performed between the hours of 7:30 a.m. and 4:30 p.m. However, to minimize inconvenience to both the customers and NASA personnel, some discrete projects, such as testing of some systems, may be performed outside of the normal work hours. Such project work may be accomplished after 4:30 p.m. on weekdays or on weekends. It should be noted that access to certain offices and buildings may be restricted outside the normal

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“core hours” of 7:00 a.m. and 4:30 p.m. When such access is restricted, Security personnel will have to be notified by the Contractor, in advance, to provide that access for routine services.

4.5.2.3 Staffing

The Contractor shall at all times be fully staffed with personnel qualified in accordance with ****SPG 8838.2****. The minimum staffing of qualified personnel shall be such that two engine companies will respond to each alarm and be safely operated concurrently.

4.5.3 GOVERNMENT-FURNISHED PROPERTY

4.5.3.1 Manage and Maintain

The Government will provide equipment and materials identified in paragraph 4.5.7.1. The Government Furnished Equipment shall be maintained and managed in accordance with paragraph 4.5.8.

4.5.4 SERVICE AREA

Contractor shall perform preventive maintenance on fire fighting equipment (i.e. hoses, nozzles, etc.) as well as personal equipment (consumables such as boots, pants, helmets, etc.) listed in ****Attachment J-10, List and List 2.**** The Contractor shall be responsible for all levels of preventive maintenance to maintain all equipment in a safe, serviceable/operable condition and to repair or identify for replacement as required.

4.5.5 FIRE PREVENTION

4.5.5.1	Inspect Buildings	Conduct an inspection of all buildings and maintain a file of all inspections. Report findings to the responsible party(s) for resolution.	Monthly 105	NFPA Standard 1231 NSS 1740.11, **DR 6-SA01**
4.5.5.2	Inspect and Conduct Flow Test	Conduct flow test of the potable water distribution system, including all hydrants. Report the deficiencies in delivery of water throughout the system to the CO within 24 hrs. Coordinate with Annex 5, MTS E-25.	Annual 199	NFPA Standard 1231 NSS 1740.11
4.5.5.3	Inspect and Test Sprinklers	All sprinkler systems to be inspected and tested.	Quarterly 97	Conduct 2” mini drain test NFPA Standard 13

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				NSS 1740.11
4.5.5.4	Perform Fire Drills	Contractor shall conduct fire drills that demonstrates the fire alarm system and egress through exits for all facilities.	Quarterly	NSS 1740.11 NFPA Standard
4.5.5.5	Inspect and Test Extinguishers	Perform inspection and test of all portable fire extinguishers, including those on vehicles. Maintain fire extinguishers in fully operational mode.	Monthly 1366 Extinguishers	NFPA Standard 10 NSS 1740.11*
4.5.5.6	Recharge, Repair, Replace Extinguishers	All defective extinguishers shall be repaired, recharged, or replaced by contractor in order to keep them fully operational.	As needed	NFPA Standard 10
4.5.5.7	Test and Recharge Special Systems	Special systems, i.e. Halon, Co2, Dry Chemical, FM200, etc., shall be inspected and tested to assure operational readiness. Specialized installed systems shall be tested. Recharging in accordance with manufacturer's specifications.	Annually 1 Co2 1 FM200 3 Dry Chemical	NFPA Standard 12 NSS 1740.11
4.5.5.8	Develop/Update Pre-Fire Plans	Develop/update pre-fire plans for each building.	As needed 75	NFPA Standard 1 NSS 1740.11
4.5.5.9	Issue Small Appliance Permits	Review request for small appliances and issue permits as appropriate	129/Yr	NSS 1740.11
4.5.6	ALARM RESPONSE			Initiate all responses within 2.5 minutes of alarm receipt
4.5.6.1	Fire Alarm Response	Respond to all fire alarms with the minimum required personnel and appropriate fire apparatus, equipment, and supplies to accomplish rescue, fire fighting,	24 hrs/day 204 Annual	NFPA Standard 1202, 1500 NSS 1740.11

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		containment, and protection of explosives. Respond with ambulance, as appropriate. After completion of response, clean and place all fire fighting equipment back into a condition of readiness.		
4.5.6.2	Ambulance Response	Respond to medical emergencies with EMT certified firefighting personnel. Establish and maintain contact with the SSC Medical Clinic and local hospital emergency room personnel when in route with a patient to that facility.	24 hrs/day 65 Annual	NFPA Standard 1004 NSS 1740.11
4.5.6.3	Emergency Response	The contractor shall provide emergency response that is not fire related such as vehicle accidents, extractions, confined space entries, and hazardous chemical spills. Records will be logged and maintained of all responses.	24 hrs/day 64 Annual	NFPA Standard 472 NSS 1740.11
4.5.6.4	Mutual Aid	Respond to offsite alarms in accordance with paragraph 4.5.6.1, 4.5.6.2, and 4.5.6.3. At least one company of fire responders shall remain at SSC at all times. Mutual aid, the act of responding to the local communities with emergency support as part of a reciprocal agreement, will be given in accordance with mutual aid agreements. Copies of mutual aid agreements will be maintained on file in the fire department.	24hrs/day 12 Annual	NFPA Standard 1202, 1500 NSS 1740.11
4.5.7	EQUIPMENT TESTING AND INSPECTION			
4.5.7.1	Inspect and Test Motorized Apparatus	All motorized fire fighting apparatus shall be inspected and tested to assure operability. Log apparatus checklist and keep on file in fire department. The	Daily 4 Pumpers, 1 Rescue Truck,	NFPA Standard 1002, 1911 NSS 1740.11**

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		washing of apparatus shall be conducted at the designated vehicle washing facilities, Bldg. 2105 and 2401.	1 Dozer, 1 Transporter, 2 Ambulances, 2 - 25 Hp Boats, 2 GSA Trucks	No apparatus shall be out for more than 24 hrs.
4.5.7.2	Inspect and Test Hose	Contractor shall inspect and test and maintain all hoses by removing and pressurizing	Annual	NFPA Standard 1961
4.5.7.3	Test Pumps and Ladders	Conduct flow test of all flow apparatus pumps and conduct test of all ladders to assure compliance with manufacturer's specifications. Test results shall be maintained in fire department.	Annual 9 Ladders 3 Pumps	NFPA Standard 1931
4.5.8	EQUIPMENT MAINTENANCE			
4.5.8.1	Maintain Collateral Equipment	Preventive maintenance shall be performed on all collateral equipment. Collateral equipment refers to all tools, accessory equipment, hoses, and adapters.	Daily	NFPA Standard 1201 NSS 1740.11
4.5.8.2	Maintain Personal Gear	The contractor shall perform preventive maintenance on personal equipment, i.e. boots, helmets, breathing apparatus. All equipment shall be maintained in a safe, operable condition, and replaced as necessary.	Daily	NFPA Standard 1971
4.5.8.3	Maintain Hazardous Chemical Response Trailer Inventory	The contractor shall assure that the minimum inventory of materials and equipment is available for response actions under 4.5.6.3.	Continuous	Inventory must be replenished within 24 hours. 19 CFR 1926.1200
4.5.9	ISSUE FLAME PERMITS AND PROVIDE STANDBYS			
4.5.9.1	Flame Permit Issuance	Administer a flame permit program that is responsive	Annual 1,324	NSS 1740.11

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		to the multi-task goals of SSC.		SPG 8715.1
4.5.9.2	Standby Operations and Site Support	Provide standby operations as required for SSC organizations. Standby personnel that is not dedicated will leave standby post in case of fire alarm.	Annual 64	NSS 1740.11
		Site support may include washing pavilion, watering flowers, charging waterlines to chillers.	Annual 14	
4.5.10	TRAINING AND EDUCATION			
4.5.10.1	Provide Site wide Training/Education	Provide site wide training and education by developing and teaching classes in CPR, Fire Extinguisher Training, and the development and distribution of flyers associated with fire safety, especially around holidays.	As Required	Identify, schedule and conduct and training DR 6-SA18 and DR 6-SA17
4.5.10.2	Provide Mutual Aid Familiarization	Participants to become familiar with the fire fighting capabilities, facility layout, and possible areas of support by each local department.	Annual	NFPA Standard 1201, 550 NSS 1740.11
4.5.10.3	National Fire Prevention Week	Develop and conduct training for both in house use and site wide training use that is consistent with the current theme of National Fire Prevention Week.	Annual	Must be in compliance with NFPA Fire Prevention Week Presidential Proclamation Activities DR 6-SA01 DR 6-SA17
4.5.11	PARTICIPATE IN DESIGN REVIEWS AND CONFERENCES			
4.5.11.1	Design Review Participation	The fire chief is considered the resident expert in fire safety matters and shall participate in construction	Continuous	Participate in Design Review Process

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		design reviews for new construction and major renovation.		
4.5.11.2	Conference Participation	The fire chief will attend one national level conference each year as designated by NASA.	Annual	Share information with interested parties within (7) days of return
4.5.12	REPORTS AND SCHEDULES			
4.5.12.1	Fire Alarm Report	Develop a report of all activity surrounding the response, containment, and investigation of an alarm. Conformance with **DR 4-SA01**	Monthly	**DR 4-SA01** SPG 8715.1
4.5.12.2	Ambulance Report	Develop and Report all activity with regard to each medical emergency response. Conformance with **DR 4-SA01**	Per Response	**DR 4-SA01**
4.5.12.3	Fire Damage and HAZ-MAT Report	Develop a report of all fires that result in a loss, as well as all hazardous spills incidents. Conformance with **DR 4-SA01**	Per Incident	**DR 4-SA01**
4.5.12.4	Inspection/Testing Discrepancy Report	Develop a report of deficiencies noted during inspections/testing. Conformance with **DR 4-SA02**	Monthly	**DR 4-SA02**
4.5.12.5	Equipment Testing Maintenance Schedule	Develop an inspection and testing schedule for all equipment, apparatus, and systems. Conformance with **DR 4-SA03**	Continuous	**DR 4-SA03**
4.5.12.6	Training Schedule	Develop training schedule for classes. Conformance with **DR 4-MT01**	Annual	**DR 4-MT01**
4.5.12.7	Emergency Response	Develop a report of all emergencies requiring a response.	Per Response	**DR 4-SA01**

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		Conformance with **DR 4-SA01**		
4.5.12.8	Monthly Report	Develop a report of significant activities accomplished during the month. Conformance with **DR 4-SA01**	Monthly	**DR 4-SA01**
4.5.12.9	Personnel Qualifications Report	Develop a report of qualification of all personnel. Conformance with **DR 4-MT01**	Annual	**DR 4-MT01**
4.5.12.10	MSAAP Fire Activities	Develop a report of all fire activities at the Mississippi Army Ammunition Plant (MSAAP)	Quarterly	**DR 4-SA04**