OPERATIONAL AGREEMENT

between
Lockheed Martin Space
Orion Program
and
PAE-SGT Partners, LLC, Base Operations and Spaceport Services (BOSS)

Joint Operations of the Launch Abort System Facility Industrial Operating Zone Fire Suppression and Fire Detection Systems

ORION-KSC-FAC-016
Revision – Final 22 July 2019

1. Introduction
    1.1. This Operational Agreement (OA) establishes the roles and responsibilities between Lockheed Martin Space and the PAE-SGT Partners, LLC, Base Operations and Spaceport Services (BOSS)
    1.2. Regarding the Operations, Maintenance, Engineering, and User (OMEU) of the Fire Detection and Fire Suppression Systems in the Industrial Operating Zone (IOZ) within the Launch Abort System Facility (LASF) M7-0777, Warehouse (M7-0776A and POL Building, M7-0776B.
    1.3. The LASF (M7-0777) may contain unique ordinance hazards and unauthorized entry is prohibited. If Lockheed Martin Space is unavailable for entry and escort the BOSS Duty Office shall be contacted for Lockheed Martin Space contact and authorization.
    1.4. The intent of this document is to provide the business policy in order to operate and maintain the LASF IOZ Fire Alarm (PMN K60-0073) and Fire Sprinkler systems (PMN K61-3332, K60-0099, and K62-5527)
    1.5. This document establishes the basis for BOSS to successfully provide quality service for Sustaining Engineering, Operations and Maintenance of the IOZ fire detection and fire suppression systems while minimizing impact to Lockheed Martin Space, in order to protect the Lockheed Martin Space assets and ensure a continued production environment is maintained.

2. Scope
    2.1. This OA is to define the LASF IOZ fire detection and suppression systems technical requirements, scheduled and unscheduled maintenance, and notifications and response. This OA does not address portable fire extinguishing equipment.
    2.2. This OA applies to all fire detection and fire suppression equipment and software, as delineated in the drawings associated with Program Model Numbers K60-0073, K61-3332, K60-0099, and K62-5527) within the IOZ areas (see Attachment I) .

3. Definitions
    3.1. **Scheduled Maintenance** includes preventive maintenance (PMI/OMI's), predictive testing and inspection, scheduled repair projects, programmed maintenance, replacement of obsolete items, and restoration/modernization associated with building systems/components.
    3.2. **Unscheduled Maintenance** includes corrective maintenance, trouble calls and breakdown repairs.
    3.3. **Emergency Conditions** are situations which would render flight hardware or personnel safety at risk.

4. IOZ Cleanliness Standards
    4.1. LASF IOZ High Bay cleanliness shall be maintained per the Lockheed Martin Space IOZ KSC-FO-042 Clean Zone Operating Procedure

5. Security and Access

5.1.1. LASF IOZ access shall be per the Lockheed Martin Space IOZ Security / Access Plan (KSC-FO-004).

5.1.2. LASF IOZ entry requires check-in at the Orion Operations Desk in the O&C building following LM protocol. Shop personnel can pre-coordinate entry by calling the O&C Operations Desk at 321 867-7525.

5.1.3. LASF IOZ access for scheduled maintenance will be coordinated with Lockheed Martin Space through the BOSS maintenance schedule at all times. Lockheed Martin Space will be provided the BOSS maintenance schedule a minimum of two weeks in advance of scheduled maintenance activity to provide for security coordination. Scheduled maintenance that will adversely impact Orion Production operations within the LASF IOZ as determined by Lockheed Martin Space may be performed off shift or on weekends as required; Lockheed Martin Space will support access to the LASF IOZ for off shift work.

5.1.4. Unscheduled maintenance when Lockheed Martin Space is unavailable during non-work hours shall be authorized through the BOSS Duty Office and execution of the BOSS / Lockheed Martin Space call list maintained by the Duty Office.

5.1.5. LM will authorize a KSC issued Task Key (KH-122) for access to the LASF IOZ mechanical equipment rooms. The Task Key shall be used for nominal maintenance access. The issued Task Key shall be maintained in a locked and controlled cabinet at all times when not in use in the Industrial Area Chiller Plant (IACP).

5.1.6. A log of the LASF IOZ access Task Key usage shall be maintained at the IACP.

5.1.7. Unscheduled maintenance, emergency and emergent condition access into the IOZ (except for West Mechanical Room) shall be denoted in the IOZ HVAC Log book located at the IOZ Operations Desk. Detail shall include as a minimum:

Reason for entry
Time of entry
Action taken
Time of exit

6. Drop Mitigation and Foreign Object Elimination

6.1. All personnel accessing the IOZ shall comply with KSC-FO-016 Drop Mitigation Plan and KSC-FO-017 FOE Plan.

7. Scheduled maintenance

7.1. BOSS shall be responsible for all scheduled maintenance of the LASF IOZ fire suppression and detection systems as shown on the system drawings.

7.2. Scheduled maintenance shall be coordinated with the LM Orion Facilities Manager.

7.3. Scheduled maintenance shall be integrated into the Lockheed Martin Space Production Master Schedule.

7.4. Scheduled maintenance shall not adversely affect ongoing Orion Production or Processing operations within the LASF IOZ.

8. Unscheduled maintenance
   8.1. BOSS shall be responsible for all unscheduled maintenance of the LASF IOZ fire suppression and detection systems as shown on the drawings.
   8.2. Unscheduled maintenance due to failures or anomalies that render the systems non-operational or at high risk shall have immediate response within 30 min. Notification via BOSS Duty Office to the LM Orion Facilities Manager and the BOSS Facility Manager or alternant (see Attachment II) shall be made as soon as possible.

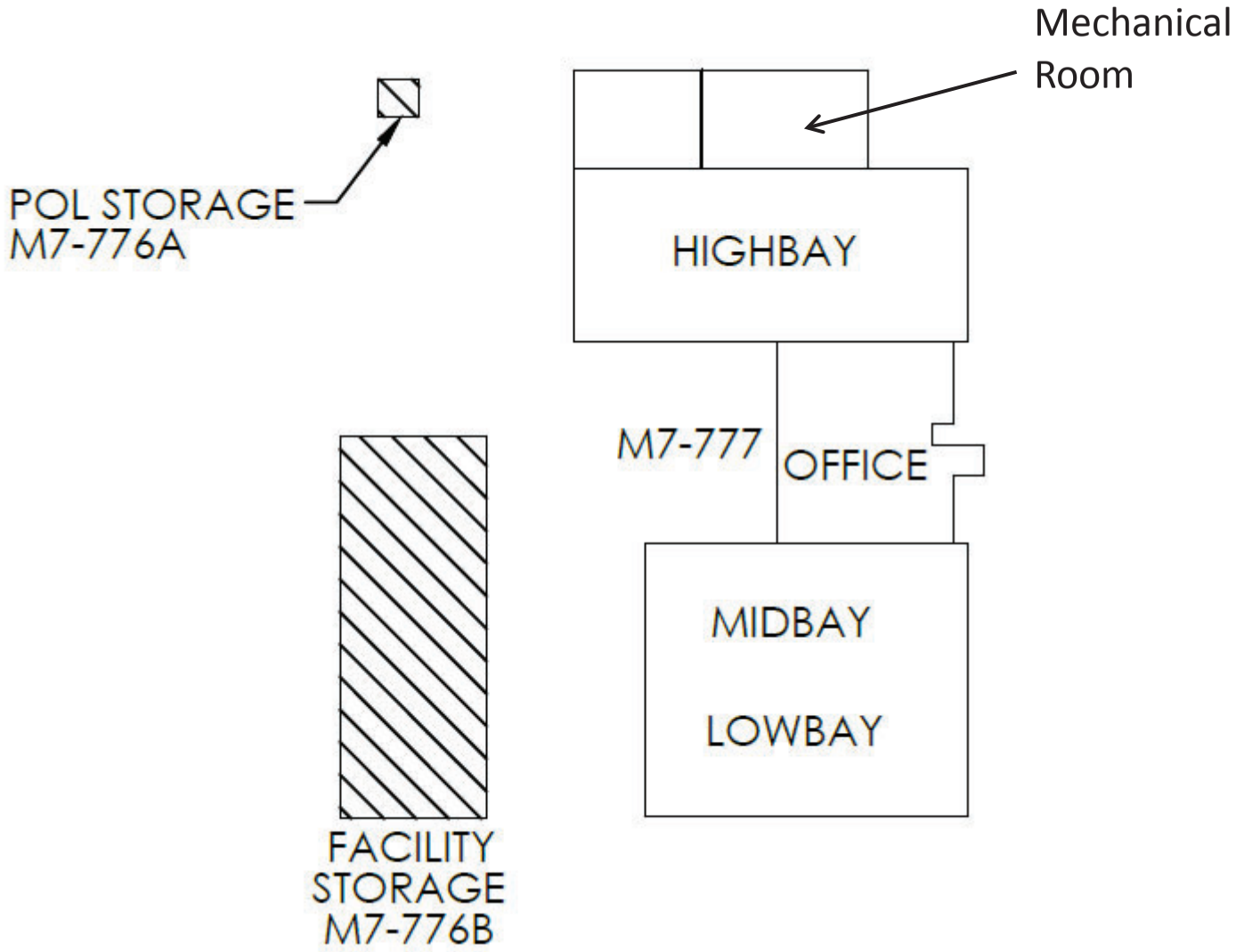
9. System Modifications and Configuration Control
   9.1. From time to time modifications / additions may be required on the fire detection and suppression systems. Lockheed Martin Space may desire to implement such changes to the systems however in all cases configuration changes and testing, if required, will be vetted through the existing BOSS Support Request and BOSS Configuration Control Board.
   9.2. BOSS may desire to perform system modifications for reasons such as hardware updates, obsolescence etc. BOSS shall coordinate with Lockheed Martin Space for all system modifications in advance. All modifications to the systems shall be managed and approved through BOSS change management system.
   9.3. System Modifications, testing, and Configuration Control changes shall be coordinated with the Lockheed Martin Space Orion Facilities Manager.

10. Systems Operation
    10.1.1. In all cases BOSS is responsible for operation of the fire detection and fire suppression systems.

11. Emergency Response
    11.1. In the event a system malfunction or failure will or may change the established condition of the LASF IOZ or operations within, BOSS shall respond within 30 minutes as defined in the unscheduled maintenance section of this document
    11.2. System out of condition issues and failures detected by Lockheed Martin Space shall be communicated to BOSS Duty Office immediately at 861-5050.
    11.3. BOSS shall provide notification to the LM Orion Facilities Manager and BOSS Facility Manager of system out of condition issues and failures.

12. Natural Disaster for Fire Protection Systems Preparation and Operation
    12.1. Lockheed Martin Space and BOSS shall prepare and respond as determined by their individual approved plans.

ATTACHMENT I
IOZ Boundaries



LASF Property