STATEMENT OF OBJECTIVES (SOO)

48th Maintenance Group F-35 Aircraft Wrap Around Stand

07 July 2026

1.0 Purpose

The purpose of this requirement is to develop and obtain one (1) F-35A aircraft wrap-around phase stand to replace out-of-date and insufficient stands currently in use.

2.0 Background

The 48th Equipment Maintenance Squadron (EMS) requires a complete, high-quality F-35A wrap-around maintenance platform to facilitate safe, effective, and efficient maintenance, repair, and inspection activities. The current existing stands are insufficient, creating safety hazards and wasting vital turnaround time when performing PHASE-level inspections on aircraft.

3.0 Scope

The Contractor shall furnish all tools, vehicles, qualified personnel, materials, equipment, and services necessary to design, manufacture, test, deliver, assemble, and provide technical documentation for one (1) F-35A aircraft wrap-around stand. The stand must fully wrap around the aircraft to support maintenance operations while maximizing available hangar space and turnaround efficiency.

4.0 Period and Place of Performance

Timeline: Within 24 weeks from the time of award (accommodating a minimum 120-day ARO lead time), the completed stand shall be delivered to RAF Lakenheath, assembled, and set up.

Location: Installation and on-site assembly are to be performed at Building 1219 of RAF Lakenheath (RAFL), United Kingdom, IP27 9PN.

5.0 Technical & Functional Requirements

To satisfy the 48th EMS operational requirements, the wrap-around stand must meet or exceed the following technical and functional standards:

5.1 Structure & Materials

Chassis/Frame: Constructed from high-tensile strength, lightweight, and non-corrosive materials (such as 6061-T6 aluminum) to ensure high strength-to-weight ratio, long-term durability, and minimal painting or corrosion maintenance.

Welding & Manufacturing: All welding must be performed in accordance with ISO-9001 quality systems and American Welding Society (AWS) structural aluminum specification D1.2 by certified welders, and inspected by certified AWS welding inspectors.

Fasteners & Safety Practices: Sharp edges, burrs, and pinch points must be eliminated. All hardware and fasteners must be corrosion-resistant and utilize locknuts or other positive locking methods (excluding safety wire) to minimize foreign object damage (FOD) and hazardous conditions. Galvanic corrosion protection must be utilized (such as powder coating or plastic coating) where dissimilar metals interface.

5.2 Height, Mobility, & Safety

Height Adjustability: The stand must feature height adjustability, with the capability to safely reach and support a working height of 15 feet to facilitate high-reach maintenance, repair, and inspection tasks.

Mobility & Wheels: The stand must be equipped with heavy-duty, industrial-grade, non-marking wheels and swivel castors with integrated brakes and locks. The design must allow for easy manual movement, rapid positioning around, and quick removal from the aircraft with minimal horizontal push/pull forces.

Modularity: The maintenance stand must consist of completely modular, independently mobile sections that connect securely using quick-release locking devices (such as heavy-duty toggle clamps with positive safety lock mechanisms requiring manual action to unlock).

Deck Surface: Utilizing custom proprietary, self-draining, and slip-resistant deck planking with no open holes (preventing small tools, fasteners, or hardware from falling through). The deck surface must be optimized for safety while remaining comfortable enough to allow personnel to kneel, lie, or crouch.

Adjustable Deck Sections (Sliders): Integrated, infinitely adjustable sliders that can be easily extended, retracted, and locked into place by a single person to contour precisely to the aircraft's shape. Sliders must provide the full load capacity of the deck with a minimal step-down (no greater than 1/4 inch) to ensure a safe, gap-free work environment up to the aircraft's skin.

Fall Protection & Handrails: Modular, interchangeable handrail sections painted Safety Yellow that comply with AFOSH, OSHA, and CALOSH load rating, height, and length regulations. End handrails must feature sliding extensions to match the deck sliders.

5.3 Utilities & Tooling

Electrical Outlets: Integrated, relocatable electrical boxes supporting both 120V (15-amp) and 220V power outlets to seamlessly accommodate both US and UK ground support and maintenance equipment. These must include a twist-lock inlet connector, GFCI duplex receptacles, and appropriate extension cabling (such as a 25ft extension cable with a NEMA 5-15 plug). Boxes must be powder-coated safety yellow and easily relocatable on any handrail midrail.

Pneumatic Manifolds: Relocatable manifolds machined from a solid block of aluminum (anodized black) with push-to-connect quick disconnects for one (1) inlet, four (4) outlets, and one (1) pass-through to allow multiple manifolds to be connected on the same circuit. These must be mounted on brackets powder-coated safety yellow and easily relocatable on any handrail midrail.

Pneumatic Hose Reels: Integrated heavy-duty auto-rewind hose reels equipped with 3/8-inch x 50-foot rubber hose rated at 300 PSI, mountable on the side of the deck or handrails.

5.4 Asset Tracking & Compliance

Unique Identification: All delivered stand platforms must be manufactured and delivered with a MIL-STD-130 compliant Unique Identification Data (UID) plate attached in accessible locations.

Regulatory Compliance: Designed and manufactured to meet or exceed OSHA 29 CFR 1910, DAFMAN 91-203 Chapter 13, DAFI 21-101, and AFOSH 91-501 safety standards.

6.0 Supply System Integration & Cataloging

To facilitate seamless future logistics and procurement actions, the Contractor shall coordinate and collaborate with the United States Air Force (USAF) logistics, provisioning, and cataloging offices to integrate the F-35A wrap-around maintenance stand into the Federal supply system:

Technical Data Provision: The Contractor shall provide all necessary technical data packages, detailed engineering drawings, and commercial asset data required for National Stock Number (NSN) assignment or cataloging.

System Cataloging Support: The Contractor shall assist USAF logistics personnel in completing supply system registration and cataloging workflows, ensuring that ordering additional stands or standardized replacement parts in the future is streamlined and standardized for the Air Force.

7.0 General Requirements

- **Business Relations:** The Contractor shall successfully integrate and coordinate all activities needed to execute this requirement. The Contractor shall manage the timeliness, completeness, and quality of problem identification, promptly notifying the Government and executing corrective actions. The Contractor shall seek to ensure mission partner satisfaction and professional, ethical behavior from all personnel.

8.0 Contract Management & Administration

Contract Management: The Contractor shall establish clear organizational lines of authority and responsibility to ensure effective management of assigned resources, maintaining steady continuity between the mission partner and corporate offices.

Contract Administration: The Contractor shall establish processes and assign appropriate resources to effectively administer the contract, responding to Government requests in a timely fashion. A single point of contact between the Government and Contractor personnel shall be established, and proper, accurate records must be maintained.

Subcontract Management: The Contractor shall be fully responsible for any subcontractor and the coordination of integrated work executed under this contract.

Hours of Work: On-site workdays are Monday through Friday, 0800 to 1700 local UK time, excluding US Federal holidays and UK Bank holidays.

9.0 Delivery, Assembly & Training Objectives

Delivery Location: Delivered to Building 1219 of RAF Lakenheath (RAFL), United Kingdom, IP27 9PN.

Setup & Assembly: The Contractor's installation crew will mobilize, receive, unload, and assemble the maintenance platforms on-site. The Contractor is responsible for providing all assembly tooling, forklift equipment, and high-reach equipment required for installation.

Facility Protection: Installation of products must not interfere with or impede current systems already installed in Building 1219. Any damage caused by the Contractor to the surrounding facility area during installation will be repaired at no additional cost to the Government.

Training & Familiarization: Upon delivery and assembly, the Contractor shall provide on-site familiarization training for the operators. Training must cover set-up, theory of operation, servicing, operational checks, adjustment procedures, inspection, and troubleshooting.

Documentation: The Contractor must provide a standard technical Use, Care, and Maintenance manual (including assembly, disassembly, and troubleshooting diagrams).

10.0 Service, Maintenance, and Warranty

Service Equipment: The Contractor is responsible for providing any high-reach equipment required for the servicing and maintenance of the installed platforms.

Warranty: The Contractor shall offer a minimum one-year warranty on all manufactured components. All other third-party components will be subject to the original manufacturer's warranty.