**Statement of Work**

**F-22 Maintenance Stands**

**\*\*\*Please submit drawings/diagrams to support your proposal.**

Requirement

Provide four sets of F-22 wing stands [a set is comprised of one left wing and one right wing stand.]

Specifications

**Material**

* The Stands should be constructed of aluminum
  + No painting required.
  + Stand will be need to support 4 personnel and a large tool box (1000 lbs).

**Dimensions**

* Must have a work deck spanning from the front of the fuselage along side the fuselage and 18’ of the leading edge [please see yellow outline on diagram]. The footprint of the wing stand must not be wider than 8’5” in order for it to be moved to a side wall but allow the airplane to be moved out of the building. The distance between the tip of the wing and the wall is 10’ wide
  + The work deck must accommodate a tool box that is 52” L x 55” W.
* A tread grip type surface incorporated into the work deck.
* Stands should be height adjustable with a minimum height of 5’5” and a maximum height of 6’.

**Safety**

* Stands must comply with OSHA and Air Force safety standards.
* The Wing Stands should have full swivel lock, heavy duty casters, with brakes
  + heavy duty casters will be a hard wheel and will be able to support the stand and the load capacity of 1000 lbs. A 6”- 8” diameter is normally used.
* The work deck must have a fall protection rail [see diagram]. It will include a 4” high toe kick, plus an additional 18” high expanded metal grating [see example picture]. It must include a handrail for a total height of a 42” tall fall protection rail.
  + It must wrap around all sides, except the area mating to the wing leading edge.

**Additional**

* All areas that contact the Jet will be padded with non marking chemical resistant padding.
* There will be a 50’ retractable grounding wire incorporated for grounding stand during work in explosive environment
* A tow bar will be provided on each stand
  + The tow bar will be able to be stowed out of the way. If the stand needs to be towed to a location outside its normal work area the tow bar can be unlatched and employed.
* There shall be four heavy duty reels on the upper deck and four in the lower area with two each electrical cords (explosion proof) and two each air hoses measuring 35’ in length. When no longer needed, a simple tug would release them back into their stowed position.
* Lighting (explosion proof to meet OSHA and AFOSH standards for paint facilities) will be provided to “Flood” the area under wing.
  + Explosion-Proof UL Certified for Paint Spray Spraying Applications. Rated Class 1 - Division 1, Paint Spray Applications. Fixture wired with 50’ power cord with a 20 amp Explosion-Proof plug and 115 Volts. Fixture will be mounted at the bottom of the stands no more than 2’ off the ground in order to light the under part of wing. Fixture Lamp tubes protected