

STATEMENT OF WORK (SOW)

Portable Container Spray Booth

INTRODUCTION

The National Aeronautics and Space Administration, Armstrong Flight Research Center (AFRC) has a requirement to supply a Portable Container Spray Booth to the Science and Aircraft Integration Facility (SAIF), 2825 E. Ave P, Palmdale, California 93550. The contractor shall provide all needed components to support a Portable Container Spray Booth. This document contains the basic scope of work and some technical requirements.

Contracting Officer (CO) – The person assigned to this contract as the CO will be the only individual with authority to speak for and contractually bind the AFRC. All communications, authorizations, approvals, changes, modifications, etc., involving this contract, will be with and through the CO. Any action not approved by the CO will not bind the AFRC.

Contracting Officer's Representative (COR) – The CO may assign a COR to oversee the work on the project and act as a technical point of contact. A letter detailing the COR's responsibilities and authority will be issued when a COR is assigned.

1. PROJECT LOCATION

The Portable Container Spray Booth will be delivered to the Science and Aircraft Integration Facility (SAIF), Bldg. 703, 2825 E. Ave P, Palmdale, California 93550. The container will need be delivered to the north side of Bldg. 703.

2. SCOPE

2.1 General

This specification covers the requirements for the construction and installation of the Portable Container Spray outside of the SAIF, Bldg. 703. .

2.2 Description of Work

All work to be accomplished includes the following:

Manufacture and deliver a new Portable Container Spray Booth that is fully operational in accordance with specifications to SAIF, Bldg. 703 on the north side of the facility. The Contractor must provide all Engineered Drawings and Building Permits for installation of the Portable Container Spray Booth

3. PORTABLE CONTAINER SPRAY BOOTH TECHNICAL REQUIREMENTS

3.1 Paint Booth Overview

The contractor must construct a Portable Container Spray Booth that has inside dimensions of 7'-8"W x 7'-10"H x 17'D and outside dimensions of 8'-0"W x 8'-0"H x 22'-0"D. The interior paint booth walls must have a smooth surface that is sheeted with 18ga. Galvanized steel. The entry

doors must be able to be secured in the open position during painting operations to prevent the operator from being trapped inside. The inlet doors must have a filter grid that covers the entire opening to capture dust and particulate matter. The spray booth must be portable, self-contained and pre-assembled.

3.2 Ventilation Method

The paint booth must use a vanaxial fan that is capable of 3” static pressure.

3.3 Airflow Requirements

The paint booth must have adequate airflow and comply with Occupational Safety and Health Administration (OSHA), National Fire Protection Association (NFPA), American National Standards Institute (ANSI), Federal, State and local regulations. The paint booth must intake ventilation from 2 inlet doors that cover the entire opening and have a filter grid to capture dust and particulate matter. The exhaust ventilation will include a rain cap or gooseneck ducting for outdoor application. Appropriate steel ductwork must be installed.

3.4 Filtration Requirements

The paint booth must have filtration in compliance with OSHA, NFPA, ANSI, Federal, State and local regulations. Dry filters are to be used for filtration. A filter bank with NESHAP HEPA filtration with 99.97 HEPA filters must also be included to meet local AQMD requirements. Manometer(s) must be installed in order to determine when the filters need to be changed.

3.5 Lighting

The paint booth must comply with the following lighting requirements. The lighting fixtures must be UL rated and meet Class I/Div II for spray booth applications. The light fixtures must be flush or low profile, they must not extend out from the ceiling or walls. Lighting must be warranted for a minimum of 1 year.

3.6 Electronic Control Panel

The contractor must install a single point power connect with lockable disconnect switch on the exterior of the booth with a NEMA 4x rating for outdoor applications. The panel will include a mag starter, non-fused disconnect, air solenoid valve and power point for future connection of 220v, single phase compressor.

3.7 Fire Suppression System

The contractor must install an integrated in-booth fire suppression system in accordance with OSHA, NFPA, ANSI, Federal, State and local regulations. The fire suppression system must use a dry chemical fire suppression system.

3.8 Compressed Air Lines

Two compressed air lines fittings must be integrated into the booth. One compressed air line for spray applications and the second compressed air line for a future connection for supplied breathable air.

3.9 Power Requirements

The booth must use 3 phase 240 volt power, as is common in industrial settings. The contractor

must provide an electrical schematic of the system and control box to the CO for installation purposes.

3.10 Explosion Proofing Requirements

The booth must be provided with proper explosion proof equipment complying with NFPA 70. This includes, but is not limited to, all lighting, and miscellaneous electrical equipment.

3.11 Booth Integrity (Structural, Chemical, Seismic)

The booth must be constructed from galvanized steel. The booth structural design must comply with the structural and seismic requirements in Chapter 16 of the 2003 International Building Code. The paint booth material and finish must be designed to ensure structural strength and chemical resistance to chemicals commonly used in paint operations. All metal parts of the paint booth, exhaust ducts and piping systems must be properly grounded.

3.12 Paint Booth Performance Data

The contractor must provide data on paint booth airflow performance (linear feet per minute and air exchanges), lighting performance and filter performance to the CO prior to acceptance.

3.13 Drawings

The contractor must provide professionally engineered and stamped drawings for installation to the CO. This includes, but is not limited to: shop drawings, booth schematics, site plan, and electrical single-line diagram. The full design information is to be provided within 45 days of award.

3.14 Operations and Maintenance Manuals

Installation manuals and maintenance manuals and warranty information must be provided in digital and print copies to the CO.

4. INSTALLATION REQUIREMENTS

Contractor must supply all parts, equipment, engineering drawings and building permits necessary to install the Portable Container Spray Booth in its designated location. The SAIF, Bldg. 703 will handle the site preparation, connect the paint booth to commercial power, and complete other like support activities to ensure the full operational capability of the Portable Container Spray Booth. In addition the contractor must provide information including, air-line pressure requirements and power requirements. All this information will be necessary for the site prep which must be completed BEFORE the contractor delivers the spray booth.

5. DELIVERY CONDITIONS

5.1 Delivery/Storage/Handling

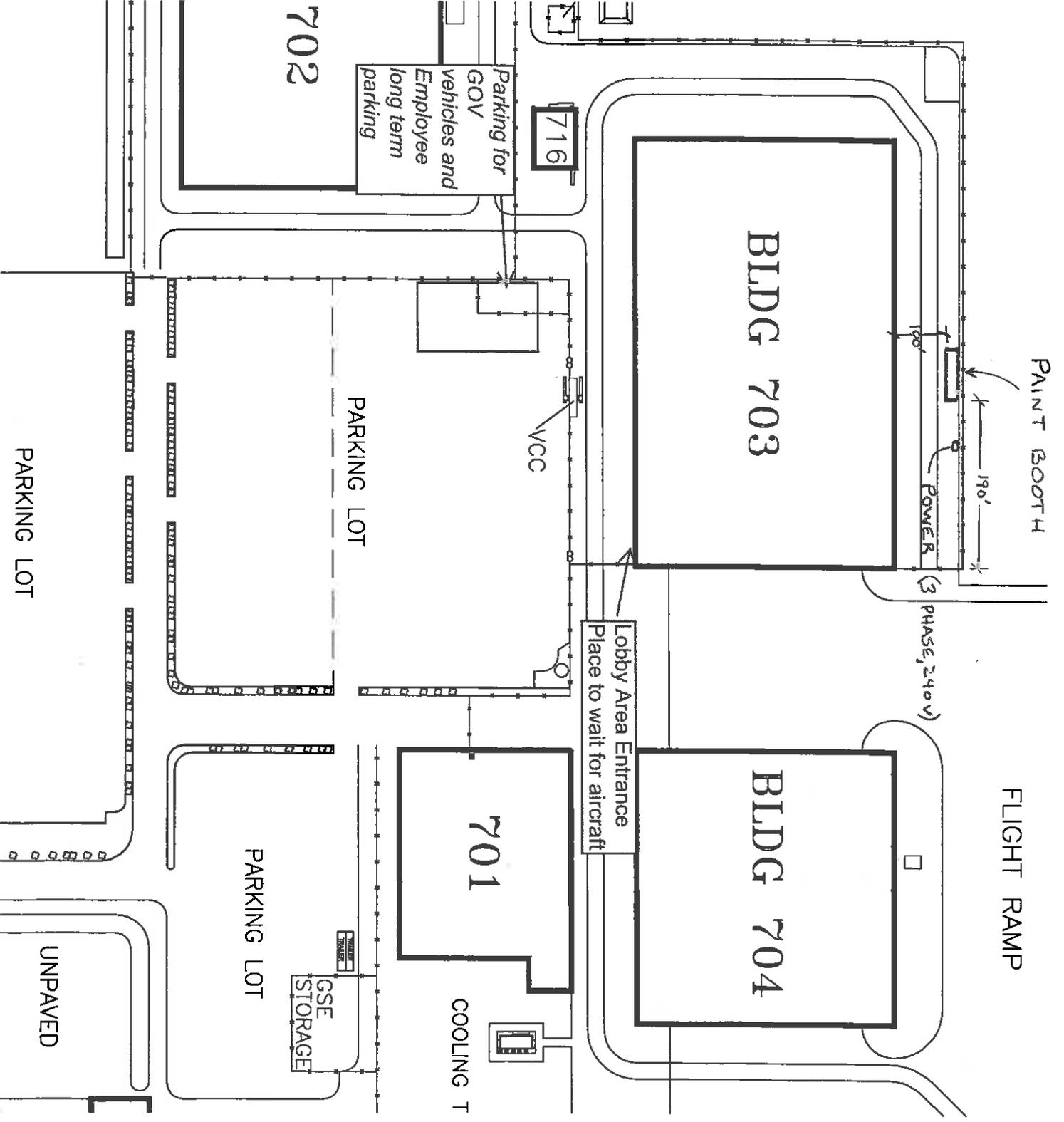
The Contractor must coordinate delivery of materials and equipment with the COR. The Contractor must confine the movement and storage of vehicles, equipment, and materials to such routes, times, and locations, as may be designated by the COR. Materials damaged in handling, storage, construction traffic, etc., will be rejected and replaced at the Contractor's expense.

5.2 Protection of Existing Property

The Contractor is responsible for any damages to property caused by the Contractor's activities.

5.3 Compliance with Regulations

The Contractor must comply with the latest OSHA regulations Title 29 Code of Federal Regulations (CFR) regarding safety in the work area. The Contractor must also comply with applicable Federal and State laws and regulations concerning human health and environmental protection, including those pertaining to air and water pollution, and the disposal of solid and hazardous wastes, substances and materials. The Contractor must consult the latest referenced OSHA, Environmental Protection Agency (EPA), State, and local documents for pertinent regulations



PAINT BOOTH

FLIGHT RAMP

BLDG 703

BLDG 704

702

701

716

Parking for GOV vehicles and Employee long term parking

Lobby Area Entrance Place to wait for aircraft

PARKING LOT

PARKING LOT

PARKING LOT

UNPAVED

GSE STORAGE

COOLING T

(3 PHASE, 240V)

POWER

VCC