

**Helicopter Support Trailer
Pre-use Inspection Form**

2012

_____ **PASS** _____ **FAIL (Submit failed equipment documentation to CO)**

Incident Name _____

Incident # _____ **E #:** _____

Vendor Name: _____ **Agreement #** _____

Equipment VIN/Unit ID# _____

Yes: _____ **No:** _____ **Equipment VIN/Unit ID# matches RESOURCE ORDER**

Inspector: (print) _____ **Agency:** _____

Signature: _____ **Date:** _____

Operator Name (print) _____

Operator Signature: _____ **Date:** _____

Yes: _____ **No:** _____ **Vehicle Truck /Trailer Passes Safety Inspection: (OF-296)**

Helicopter Operations Support Trailer Specifications (D.2.1.1)

Yes: _____ **No:** _____ **Trailer: Minimum 26' length X 8' wide (maximum width of 8' 6"), excluding tongue. Two rooms with forced air to each room, separated by a door. Radio room with 180 degree windows for visibility.**

Yes: _____ **No:** _____ **Contractor to provide a technician capable of setting up and providing maintenance on the communications trailer and qualified to maintain and program provided equipment (i.e., radios, computers, etc.).**

Yes: _____ **No:** _____ **Air Conditioning Unit(s): Self contained, climate controlled unit with air conditioning (air conditioned to maintain 70 to 75 F degree temperature in trailer).**

Yes: _____ **No:** _____ **Heating System: Commensurate with the internal dimensions, installed electric base board heaters or propane gas equivalent; no free standing heaters.**

Yes: _____ **No:** _____ **All necessary fuel and power**

Yes: _____ **No:** _____ **Trailer stabilizer.**

Yes: _____ **No:** _____ **Tool kit: Hand tool kit, for general use.**

Yes: _____ No: _____ White boards: Three (3) each, 36" L X 24" H. one (1) installed in radio room and two (2) installed on each wall of the general work area room.

Yes: _____ No: _____ One (1) fax, copier, scanner, with two (2) reams of paper appropriate for the machine, for initial start up. One (1) high capacity printer (minimum 28 pages per minute).

Yes: _____ No: _____ Cork boards: Three (3) each: 36" L X 24" H; one (1) installed in radio room and two (2) installed on each wall of the general work area room.

Yes: _____ No: _____ Internal Lighting: Sufficient to provide adequate light for night time operations, refer to work station minimum requirements.

Yes: _____ No: _____ Exterior Lighting: Sufficient to provide adequate lighting for night time operations around the trailer and briefing area.

Yes: _____ No: _____ Steps: No steep steps, access shall allow safe entry/exit from the trailer.

Yes: _____ No: _____ Minimum of one (1), 30-mph wind sock. Wind sock must be able to rotate without touching any obstacles.

Yes: _____ No: _____ One (1) 10 BC and one (1) 20 BC Fire Extinguisher.

Work Space (D.2.1.2)

Yes: _____ No: _____ Work Stations: Three (3) each desktop/countertop work stations in radio room, and 4 more in work area large (can be continuous counter tops), seven (7) rolling chairs shall be provided.

Yes: _____ No: _____ The minimum individual desk top work space provided shall be minimum 18" deep by 36" long, per each work station, rolling chairs for each work station.

Yes: _____ No: _____ A minimum of one (1) each AC lighting fixture over each work area (florescent lighting is acceptable).

Electrical Power Requirements (D.2.1.3)

Yes: _____ No: _____ Minimum 120 Volt, 50 Amp AC service entrance with disconnect switch to master breaker.

Yes: _____ No: _____ AC receptacles at all work stations/areas.

Yes: _____ No: _____ One (1) each – 20 foot, 50 Amp, AC service extension cable.

Yes: _____ No: _____ AC – 3 pin Twist-Lock to standard 3 pin adapters (minimum 20 amp service).

Yes: _____ No: _____ Battery Backup: DC (battery) backup with a minimum of 100 AH capacity for initial start-up and power outages. Battery shall have capacity to power all radio equipment for at least one operational period (one shift).

- a. Battery shall have a master disconnect or breaker switch.
- b. Battery shall be physically isolated from work area for personnel safety.
- c. Battery shall be a sealed, non-ventilating type, such as gel-cell.

Yes: _____ No: _____ Charging System: DC charging system to maintain battery backup.

*NOTE: A second smaller generator may be substituted for battery back-up that will support all radio equipment.

Yes: _____ No: _____ Auxiliary Connection: Two (2) each Auxiliary 12 volt connection power points near radio equipment.

Yes: _____ No: _____ External Generator: One (1) each AC generator kit to include one (1) Whisper Quiet style generator with a minimum output capacity of 10,000 KVA, Capable of running for one operational period without refilling for fuel. Generator shall be positioned away from the trailer and have sound dampening material around it.

Radio and Electronic Equipment: All VHF radio equipment must be P 25 digital compliant. (D.2.1.4)

Yes: _____ No: _____ VHF-FM P25 Digital Base Station consisting of a minimum of three (3) VHF-FM mobile radios. Each radio will have a desk mic or handheld mic with a speaker providing sufficient adjustable volume to be heard in a noisy working environment. Programming instructions for user and computer programming will be available. Each radio will conform to the following requirements:

- a. A P25 Digital VHF-FM two-way mobile radio, with a matched broadband antenna (Antenna Specialists ASPR7490, Maxrad MWB5803, or equivalent). The radio shall provide selection of analog wideband (25.0 kHz), analog narrowband (12.5 kHz), and P25 Digital narrowband (12.5 kHz), channel spacing on each channel operating from 148 MHz to 174 MHz. The radio shall be frequency-synthesized, equipped with a CTCSS sub-audible tone encoder having a minimum of 32 selectable tones meeting the current TIA/EIA-603 standard, and develop a minimum of 30 watts nominal output power.
- b. Transceivers shall be set to operate in the analog narrowband mode unless local requirements dictate otherwise. All radios must have the ability to be programmed in the field by the radio operator without the aid of a computer or the services typically found in a radio shop.
- c. All P25 digital radios will operate with current software as shown on www.fs.fed.us/fire/niicd/Hotsheet/Hotsheet.html. Software versions identified on this

website by October 1st will be acceptable for the following year. The only exception is more up-to-date software versions as released by the manufacturer. P25 digital radios without a software version listing will be upgraded to the current version within six months of release by the manufacturer. As an example, Relm/BK Radio releases a new software version for their DMH radio on August 1st. The above website lists this new software version on September 15th. Therefore, all DMH radios used for aviation must operate with this new software by January 1st. However, if the website did not list this new software until October 10th, the software would not be required until end of the following year.

Yes: _____ No: _____ UHF-FM Base Station: A minimum of two (2) UHF-FM mobile radios. The radio will operate from 406 to 420 MHz (minimum), have the capability for 10 (minimum) preset channels, provide a nominal power output of 30 watts minimum, and be user programmable without the need of a computer (although computer programming capability is also a requirement). Each radio will have a desk mic or handheld mic with a speaker providing sufficient adjustable volume to be heard in a noisy working environment.

Yes: _____ No: _____ VHF-AM Base Station: A minimum of two (2) VHF-AM fixed radio(s) (mobile or base). The radio will operate from 118 to 137 MHz (minimum), provide a nominal power output of no more than 10 watts, and be user programmable without the need of a computer. Each radio will have a desk mic or handheld mic with a speaker providing sufficient adjustable volume to be heard in a noisy working environment.

Yes: _____ No: _____ All radio equipment shall be ready for immediate use upon arrival at the helibase, pending frequency programming.

Yes: _____ No: _____ The vendor shall provide: All radio frequency programming software and any necessary programming hardware.

Yes: _____ No: _____ Interface devices or personal computers required by the specific manufacturer make and model of radio equipment provided within the trailer unit.

Yes: _____ No: _____ Two (2) VHF-AM handheld radios. AM handheld radios must operate over the 118 to 137 MHz frequency band and be field programmable (without the aid of a computer). Each radio will have two fully charged battery packs (AA battery clamshells are recommended) at the beginning of each shift.

Yes: _____ No: _____ Two (2) P25 digital VHF-FM handheld radios.
a. A P25 Digital VHF-FM two-way portable radio operating from 148 MHz to 174 MHz. The radio shall provide selection of analog wideband (25.0 kHz), analog narrowband (12.5 kHz), and P25 Digital narrowband (12.5 kHz) channel spacing on each channel. The radio shall be frequency-synthesized, equipped with a CTCSS subaudible tone

encoder having a minimum of 32 selectable tones meeting the current TIA/EIA-603 standard, and develop a minimum of 1 watt nominal output power but no more than 10 watts nominal output power. Modified or Family Service Radios (FSR) are not acceptable.

b. Transceivers shall be set to operate in the analog narrowband mode unless local requirements dictate otherwise. All radios must have the ability to be programmed in the field by the radio operator without the aid of a computer or the services typically found in a radio shop.

c. Each radio will have two fully charged battery packs (AA battery clamshells are recommended) at the beginning of each shift.

d. All P25 digital radios will operate with current software as shown on www.fs.fed.us/fire/niicd/Hotsheet/Hotsheet.html.

Yes: _____ No: _____ Base Station Antennas:

a. VHF-AM – Broadband covering the entire 118 to 137 MHz spectrum (i.e. RAMI AV-1 or equivalent)

b. VHF-FM – Broadband antenna (Antenna Specialists ASPR7490, Maxrad MWB5803, or equivalent). Note: Antennas supplied with new radios do not meet these requirements.

c. UHF – Broadband antenna tuned to the proper frequency band for each required base station radio.

d. At least two (2) magnetic mounted antennas with an 8 foot (minimum) RF cable for both the VHF-FM and UHF-FM frequency bands are required.

e. Antennas may be mounted on masts or mounted directly to the trailer. Antennas will be placed as far apart from each other as possible for frequency separation. Antennas may be detached from the trailer for transport.

Yes: _____ No: _____ RF CABLES: RF cable terminations will be accessible from both inside and outside the trailer. VHF cables shall be terminated with ‘UHF’ connectors. UHF cables shall be terminated with ‘N’ connectors. A selection of interseries adapters will be provided. All cables will be permanently labeled. In addition to the base station RF cables, there shall be an additional VHF cable from each work position to an outside jack box. All cables shall be RG-213, RG-8, or better cable.

Yes: _____ No: _____ Public Address System. A 30 watt (minimum) external; public address system, operated from the dispatch area, providing audio 360 degrees around the trailer.

Yes: _____ No: _____ Timer or other time tracking device (10 ea).

Yes: _____ No: _____ Digital weather station. A digital weather station shall be able to measure wind speed, wind direction, and temperature, at a minimum.

Telephone/Internet Services/Access (**OPTIONAL**) (D.2.1.5)

Yes: _____ No: _____ 1. One (1) each telephone service/customer entrance panel to accommodate a minimum of three (3) telephone lines within the trailer.

2. Four (4) pre-wired RJ-11 with RJ-66 blocks phone jacks.

3. Four (4) pre-wired RJ-45 wall jacks.

4. Three (3) each telephone handsets. One near each work station or work area.
5. Satellite Internet or High Speed; including Service Provider. – Optional Item
 - a. Minimum bandwidth: 1Meg/s Download speed, 200kbps Upload speed
 - b. Dynamic IP addressing with port address translating or static IP addressing must allow at least four (4) internal concurrent host accesses.
 - c. The ability to support for 3DES IPSec tunneling is required to support end to end solutions where remote access is needed.
 - d. Minimum Hardware: WI-FI Access Points: 802.11 A/B/G compatible with WEP key encryption options.
 - e. Browser administrated.
 - f. Power over Ethernet capable.
 - g. POE 4 port data switch.
6. Wireless LAN (recommended ports - 3).

Comments:
