

# **REPLACEMENT AIR CONDITIONER/HEATERS FOR LTV**

## **Requirements Document**

**For**

**704th Test Group/746th Test Squadron**

**10 Jan 2023**

### **1.0 PURPOSE**

The 704th Test Group (704 TG) mission is to be the premier provider of unique test and evaluation capabilities relevant to tomorrow's warfighter through world-class people improving technical excellence, cost-effectiveness, and agility. The 746th Test Squadron (746 TS) is assigned to the 704 TG. The 746 TS conducts Global Positioning System (GPS) denial and Inertial Navigation System testing. Utilizing technologically advanced antennas are an integral aspect of the unit's mission and are key to enabling test and evaluation of navigation systems, especially when evaluating system performance in challenging radio frequency environments including intentional (jamming) and unintentional interference. The 746 TS requires two replacement HVAC units in order to control environmental conditions in the Large Test Vehicle (LTV) dynamic test platform. See attached pictures for more information.

### **2.0 SCOPE**

The Contractor shall purchase and deliver two wall mount combination 24k BTU air conditioner/heaters with all associated equipment and install them on the LTV. This must include the wall units, condensers, and all associated equipment to connect and operate the units.

#### **2.1 Remove Existing Units**

2.1.1 Recover all Freon from existing LG Mini Splits (qty 2)

2.1.2 Remove all existing equipment and dispose of it in accordance with all federal, state, and local laws

2.1.3 Remove all copper drain lines

#### **2.2 Provide and Install two new 24k BTU Mini Splits**

2.2.1 Provide and install all new copper drain lines

2.2.1.1 The copper lines are to have flex hoses for allowance of vibration while driving

2.2.1.2 Verify all copper is leak and moisture free

2.2.1.3 Verify all drain lines are clear and drain

#### **2.3 Tie into the existing high voltage power**

2.4 Condensers are to be bolted to the floor of the exterior condenser compartments

2.5 Provide 2 ea. remotes with wall brackets

2.6 Operate and verify functionality of all equipment in both heating and cooling modes.

### **3.0 MILESTONES**

The contractor shall install and conduct an operational check out of the units no later than 30 days ARO.

#### **4.0 DELIVERABLES**

The contractor shall deliver all hardware and documentation to 746 TS/TGGOE Attn: Nathan Marcellus at 1644 Vandergrift Rd, building 1265, Holloman Air Force Base, New Mexico 88330.