APPENDIX D

FOR

RIDER REACH TRUCK

AT

GRISSOM ARB, INDIANA

BUILDING 613

CSN VGR601

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1. GENERAL SCOPE

This appendix establishes the minimum performance, design, fabrication, installation, and test requirements for a rider reach truck system at Grissom ARB, Building 613. The work shall be completed in accordance with this appendix, the Cover Purchase Description (PD), and Air Force (AF) Drawing VGR601-01. This appendix covers all equipment, materials, and labor necessary to complete installation of the system.

2. APPLICABLE DOCUMENTS

Applicable documents shall be in accordance with Section 2 of the Cover PD as well as conform to ANSI B56.1 *Safety Standard for Low, High Lift Trucks.*

3. REQUIREMENTS

3.1. SYSTEM DESCRIPTION

One rider reach trucks shall be provided and installed. The rider reach shall interface with the pallet rack installed according to AF Drawing VGR601-01.

3.2. CHARACTERISTICS

Rider reach trucks shall conform to the following requirements.

3.2.1. REQUIREMENTS

- **General Requirements**
  - **Minimum Rated Load Capacity:** 3,000 pounds at 24-inch load centers
  - **Minimum Power:** 24V
  - **Minimum Amp Hour:** Continuous eight hours of operation
  - **Battery Type:** Lead Acid
  - **Operator Type:** Standing
  - **Lift Height:** 144 inches to top of forks
  - **Maximum Collapsed Height:** 120 inches
  - **Fork Dimensions:** 36 [L] x 3.5 [W] x 1.25 [T] inches
  - **Fork Adjustments:** Adjustable on max 2 inch increments
  - **Minimum Travel Speed (unloaded):** 5.0 $\pm$ 2.0 MPH
  - **Minimum Travel Speed (max load):** 3.0 MPH
  - **Minimum Raising Speed:** 50 ft/min with rated load
  - **Maximum Lowering Speed:** 95 ft/min with rated load
  - **Load Stability:** No jerky movements that would displace load

- **Braking System**
  - **Type:** Mechanical and/or Electrical
  - **Braking Application:** Caster and Drive

- **Operational Capabilities**
  - **Minimum Reach Distance:** 24 inches
  - **Minimum Tilt:** 4 degrees up and 2 degrees down
  - **Minimum Side Shift:** +/- 2 inches from center
  - **Wheel Type:** Non-marking wheels
  - **Aisle Operation:** Must be able to operate with a 48 x 48-inch pallet within 144-inch aisles
  - **Speed Control:** Capable of plugging, slowing speed by reversing the speed control

- **Safety Features & Indicators**
  - Hour indicator
  - Battery charge indicator
  - Highly visible red/amber flashing lights
  - Horn
  - Working spotlight
  - Operator compartment fan and light
  - Dead man brake
  - Overload protection to prevent lifting loads greater than 110% of the rated capacity

- **Charging Requirements**
  - A compatible battery charger shall be installed as located on AF Drawing VGR601-01 and shall be in accordance with NFPA 70.
  - On-board charger shall be compatible with a 240-volt power source.
  - Chargers shall comply with NEMA IB 6-83 standards.
  - “Single-point” watering system with automatic valve and 5-gallon gravity feed tank
  - “Blinky” sensor to notify when battery needs water

- **Training**
  - Training shall be provided in accordance with ANSI B56.1 standards

4. QUALITY ASSURANCE PROVISIONS

4.1. INSPECTION

The rider reach trucks shall be inspected to verify that it meets all the requirements of sections 1, 2, and 3 of this appendix and the Cover PD. These inspections shall be completed as part of the system checkout test and again as part of the quality conformance test.

4.2. TESTS

The following tests shall be performed on the system as part of the system checkout test and again as a part of the quality conformance test.

No.	Description	Result
1.	The rider reach shall be tested for four hours as registered by the hour meter. It shall have a fully charged battery before testing begins. The rider reach shall be tested while carrying a maximum load and shall be driven down all aisles of the rack system. The rider reach fails the test if it is not capable of interfacing with each shelving position in the system.	☐ Pass ☐ Fail
2.	The operator shall attempt to activate the rider reach while not standing on the deadman brake. If the rider reach activates either vertically or horizontally the rider reach fails the test.	☐ Pass ☐ Fail
3.	The rider reach shall be loaded with a pallet load in excess of 3,300 pounds. An operator shall attempt to lift the load. If the rider reach can lift the load, and the overload valve does not open, then the rider reach fails the test.	☐ Pass ☐ Fail
4.	The rider reach shall be raised until the lift limit switch stops vertical travel. The operator shall attempt to move the rider reach in the horizontal direction. The operator shall use the override button to lift above the limit switch setting to full lift height. The rider reach fails the test if the limit switch does not stop the vertical travel or if the rider reach is able to move horizontally at or above the limit switch setting. The rider reach also fails the test if the operator is not able to override the limit switch and raise the rider reach to full lift height.	☐ Pass ☐ Fail
5.	The Contractor shall demonstrate the charging of the battery. If the battery cannot be charged, the turret truck fails the test.	☐ Pass ☐ Fail

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