Technical Specification Sheet: Shuttlelift SL200II Gantry Crane

This technical specification sheet outlines the design, fabrication, delivery, testing, and long-term maintenance support requirements for the new gantry crane.

1. Physical Dimensions & Structural Layout

- **Inside Clear Height (ICH):** 35' (thirty feet)
- **Inside Clear Width (ICW):** 30' (thirty feet)
- **Structural Joinery:** Flange in the top beam to facilitate transport, rapid assembly, and structural modularity.

2. Load, Travel, & Gradeability Specs

- **Lift Capacity:** 180 ton or higher load capacity, specifically engineered to transport the designated heavy concrete target blocks that meet HHSTT specifications.
- **Gradeability:** 3% or higher under full operational load.
- **Drive Configuration:** Closed-loop hydrostatic drive system paired with hydraulically driven All Wheel Steering (AWS) and All-Wheel Drive (AWD) for optimized maneuverability on compacted soils.

3. Mechanical, Hoisting, & Hydraulic Systems

- **Hoist System:** 2-speed (dual range) hoists featuring a low-mounted, large-diameter grooved hoist drum to optimize spooling and minimize wire rope wear.
- **Hydraulic Reliability:**
    - Quick-connect hydraulic test ports.
    - Full-flow filter integrated into the hydraulic circuit.
    - O-ring face seal hydraulic fittings to prevent leaks in harsh thermal environments.
    - Powder-coated carbon steel hydraulic tubing for high-durability corrosion defense.
    - Slew bearing for precision control.
    - Heavy-duty Cordura hose covers to protect lines from mechanical abrasion and UV exposure.

4. Electrical, Lighting, & Instrumentation

- **Diagnostic Capabilities:** Integrated remote diagnostics system with real-time hydraulic pump pressure and temperature monitoring.
- **Work Area Illumination:** High-intensity DC-LED Work and Drive Lights.
- **Power Controls:** Full-function Wireless Remote Control alongside primary cab controls.

5. Environmental, Cab, & Safety Features

- **Operator Cab:** Enclosed, weather-sealed operator's compartment equipped with a heavy-duty HVAC heating and A/C unit.
- **Acoustics:** Level 1 Sound Suppression system.
- **Alarms & Visual Warnings:** Travel warning system consisting of four (4) directional travel alarms and high-visibility strobe lights.
- **Fire Safety:** Integrated fire extinguisher in the operator cab.
- **Emergency Isolation:** Dedicated emergency stops located at each of the wheel frames.

6. Spares, Accessories, & Consumables

- **Spare Tires:** One (1) complete Spare Wheel and Tire Assembly.
- **Consumables Pack:** One (1) full set of replacement hydraulic, engine, and air filters to cover 1 year of standard service operations.
- **Standard Custom Spreader Bar Assembly:** One (1) custom-designed spreader assembly complete with load equalizers that align precisely with HHSTT target configurations. Must include an OEM-certified data plate listing the serial number, maximum load limit, and the initial load test date.

7. Optional Equipment

- **Spare Custom Spreader Bar:** One (1) spare custom spreader assembly identical to the base unit, with pricing to include freight.
- **Visual Safety Enhancement:** One (1) multi-camera vision system displaying all four corners of the gantry footprint directly on the operator's in-cab control screen.

8. Turn-Key Services & Acceptance Testing

- **Inbound Freight:** Deliver and transport all components to Holloman AFB, NM.

- **On-Site Services:** Complete turn-key assembly and installation at the Holloman High Speed Test Track (HHSTT) target arena.
- **Post-Assembly Acceptance Testing:**
    - Perform complete operational and structural verification tests to certify compliance with all OEM safety and performance standards.
    - Conduct load capacity certification tests for the crane and the custom spreader bar.
    - Execute a gradeability test under full load using customer-supplied test weights to verify travel drive and brake system functionality.
- **Training Program:** Provide hands-on operator training and service/maintenance certification courses to HHSTT personnel on-site.
- **Deliverables:**
    - Signed certificate of completion and technician service reports.
    - One (1) physical paper copy and one (1) high-resolution digital copy of all operator, diagnostic, and maintenance manuals.
- **Warranty Period:** Comprehensive two-year structural, mechanical, and hydraulic warranty on the entire crane platform.

9. Annual Preventive Maintenance & Just-in-Time Spares Support

9.1 Annual Preventive Maintenance Program

The contractor shall provide a comprehensive annual preventive maintenance program.

- **Fully Burdened Service Rates:** All pricing for scheduled maintenance visits shall be flat-rate and fully burdened, incorporating all technician labor, travel, lodging, meals, per diem, specialized diagnostic tools, and standard consumables (lubricants, fluids, and standard seals). No additional travel or incidental expenses shall be billed to the Government.
- **Standard Service Scope:** Each maintenance service interval must include, at a minimum:
    - Comprehensive structural integrity inspections and fastener torque verification.
    - Hydraulic system pressure testing, fluid analysis, and filter replacements.

- Steering alignment calibration and drive system diagnostics.
- Safety interlock, limit switch, and emergency stop testing.
- Wire rope inspection, tension tuning, and drum spooling evaluation.
- A finalized maintenance service report detailing all findings, adjustments made, and recommendations for future sustainment.

9.2 Just-in-Time (JIT) Spares Support Program

To prevent on-site storage degradation of sensitive mechanical and electronic parts, the contractor shall support an on-demand, rapid-requisition model for sustaining spares.

- **Rapid Requisition Mechanism:** Critical components (including hydraulic seals, replacement hoses, electrical relays, sensors, and a spare wireless remote control unit) shall be available for direct on-demand ordering.
- **Rapid Delivery Service Level Agreement (SLA):**
  - The contractor must guarantee that requested critical spare parts are dispatched within twenty-four (24) hours of order placement.
  - Parts must be delivered directly to Holloman AFB, NM within forty-eight (48) hours of dispatch to minimize potential crane operational downtime.

10. Additional Information

Ombudsman
a. An ombudsman has been appointed to hear and facilitate the resolution of concerns from offerors, potential offerors, and others for this acquisition. When requested, the ombudsman will maintain strict confidentiality as the source of the concern. The existence of the ombudsman does not affect the authority of the program manager, contracting officer, or source selection official. Further, the ombudsman does not participate in the evaluation of quotes, the source selection process, or the adjudication of protests or formal contract disputes. The ombudsman may refer the interested party to another official who can resolve the concern.

b. Before consulting with an ombudsman, interested parties must first address their concerns, issues, disagreements, and/or recommendations to the contracting officer for resolution. Consulting an ombudsman does not alter or postpone the timelines for any other processes (e.g., agency level bid protests, GAO bid protests, requests for debriefings, employee-employer actions, contests of OMB Circular A-76 competition performance decisions).

c. If resolution cannot be made by the contracting officer, the interested party may contact

the ombudsman, AFTC Vice Commander 1 S Rosamond Blvd Edwards AFB CA 93524COMM: (661) 277-2810 aftc.workflow@us.af.mil. Concerns, issues, disagreements, and recommendations that cannot be resolved at the Center/MAJCOM/FLDCOM/DRU ombudsman level, may be brought by the interested party for further consideration to the Department of the Air Force ombudsman, Associate Deputy Assistant Secretary (ADAS) (Contracting), SAF/AQC, 1060 Air Force Pentagon, Washington DC 20330-1060, phone number (571) 256-2395, facsimile number (571) 256-2431.

d. The ombudsman has no authority to render a decision that binds the agency.

e. Do not contact the ombudsman to request copies of the solicitation, verify offer due date, or clarify technical requirements. Such inquiries shall be directed to the contracting officer.

Elimination of Use of Class I Ozone Depleting Substances (ODS)

a. Contractors shall not:

1. Provide any service or product with any specification, standard, drawing, or other document that requires the use of a Class I ODS in the test, operation, or maintenance of any system, subsystem, item, component, or process; or

   a. Provide any specification, standard, drawing, or other document that establishes a test, operation, or maintenance requirement that can only be met by use of a Class I ODS as part of this contract/order.

1. For the purposes of Department of the Air Force policy, the following products that are pure (i.e., they meet the relevant product specification identified in AFI 32-7086[AR2]) are Class I ODSs:
   a. Halons: 1011, 1202, 1211, 1301, and 2402;

2. Chlorofluorocarbons (CFCs): CFC-11, CFC-12, CFC-13, CFC-111, CFC-112, CFC-113, CFC-114, CFC-115, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, and CFC-217, and the blends R-500, R-501, R-502, and R-503; and
   a. Carbon Tetrachloride, Methyl Chloroform, and Methyl Bromide.

Health and Safety on Government Installations

In performing work under this contract on a Government installation, the contractor shall:

1. Take all reasonable steps and precautions to prevent accidents and preserve the health and safety of contractor and Government personnel performing or in any way coming in contact with the performance of this contract; and
   a. Take such additional immediate precautions as the contracting officer may reasonably require for health and safety purposes
2. The contracting officer may, by written order, direct Department of the Air Force Occupational Safety and Health (AFOSH) Standards and/or health/safety standards as may be required in the performance of this contract and any adjustments

resulting from such direction will be in accordance with the Changes clause of this contract.

3. Any violation of these health and safety rules and requirements, unless promptly corrected as directed by the contracting officer, shall be grounds for termination of this contract in accordance with the Default clause of this contract.

Contractor Access to Department of the Air Force Installations

- The contractor shall obtain base identification and vehicle passes, if required, for all contractor personnel who make frequent visits to or perform work on the Department of the Air Force installation(s) cited in the contract. Contractor personnel are required to wear or prominently display installation identification badges or contractor-furnished, contractor identification badges while visiting or performing work on the installation.

- The contractor shall submit a written request on company letterhead to the contracting officer listing the following: contract number, location of work site, start and stop dates, and names of employees and subcontractor employees needing access to the base. The letter will also specify the individual(s) authorized to sign for a request for base identification credentials or vehicle passes. The contracting officer will endorse the request and forward it to the issuing base pass and registration office or Security Forces for processing. When reporting to the registration office, the authorized contractor individual(s) should provide a valid driver's license, current vehicle registration, valid vehicle insurance certificate to obtain a vehicle pass.

- During performance of the contract, the contractor shall be responsible for obtaining required identification for newly assigned personnel and for prompt return of credentials and vehicle passes for any employee who no longer requires access to the work site.

- Upon completion or termination of the contract or expiration of the identification passes, the prime contractor shall ensure that all base identification passes issued to employees and subcontractor employees are returned to the issuing office.

- The contractor shall provide an after-hours contact number or after-hours email in the Emergency Mass Notification System (EMNS) for each of their personnel, whose normal place of duty is on a DoD installation or within a DoD facility. The contractor shall comply with any additional requirements in DAFMAN 10-206 for emergency operational reporting. Foreign Nationals may participate and may remove themselves from the Emergency Mass Notification System at any time. To update information, personnel can access the globe icon on their system desktop screens and choose the "Access Self-Service" option.

- Failure to comply with these requirements may result in withholding of final payment.