Defined & Derived Requirements for RSLP's Logistics Support Acquisition Strategy:

- Enable Responsive and Flexible Logistics:
    - The primary goal is to establish a contract vehicle that can responsively and flexibly support RSLP logistics requirements, particularly those exceeding the GPC threshold.
    - Must be able to support both scheduled/planned events and unscheduled/emergency requirements.
    - Must streamline the process for acquiring services and supplies to prevent mission and schedule delays.
- **Open to U.S. Government Customers:** The contract vehicle should be structured to allow various government partners with proper funding and authorities to utilize its services in support of RSLP missions.
- **Supports a Full Spectrum of Logistics Functions:** The contract must support four core categories of effort, with specific requirements defined in individual task orders.
    - **Procurement:**
        - Custom Fabrication and Unique Items:
          The Contractor shall acquire unique, one-off items and specialized equipment. When required, the Contractor shall manage and execute custom fabrication directly from Government-provided engineering drawings and specifications.
            - Fabricated items and unique equipment may include, but are not limited to, specialized metal brackets and portable hydraulic pumps.
            - The Contractor shall ensure all fabricated items meet Government Quality Assurance (QA) standards as defined in individual Task Orders.

Figure 1 Portable Hydraulic Pump

Figure 2Metal Brackets

- Vehicle and Major Equipment Replacement:
  The Contractor shall purchase replacement vehicles and heavy mission equipment. Due to the high dependency on specific mission manifests and evolving operational requirements, these procurements will be strictly guided by Government-provided Technical Requirements Documents (TRDs).

  - Procured vehicles and equipment may include, but are not limited to, 3-axle trailers, mobile lightning protection trailers, and heavy-duty tractors capable of supporting 130,000+ pound loads.

  - The Contractor shall ensure all vehicle and equipment procurements comply with applicable Department of Transportation (DOT) and safety regulations prior to Government acceptance.

Figure 3 3 Axle trailer

- Consumables, Supplies, and Lifting Equipment:
  The Contractor shall procure daily operational consumables, general mission supplies, and specialized lifting equipment.

- Consumable items may include, but are not limited to, hydraulic fluid, motor oil, and vehicle batteries.

- **Services**
  - Heavy Equipment Rental and Lift Operations:
    The Contractor shall provide specialized equipment rentals, including high-capacity cranes, complete with certified operators and engineered lift plans.

    - Lift Capabilities:
      The Contractor must be capable of supporting heavy lift operations, including single-crane picks of up to 180,000 lbs. When feasible and directed by the Government, the Contractor shall plan and execute dual-crane lifts to support these weight thresholds safely.

Figure 4 Single Crane Lift

Figure 5 Single Crane Lift at Dock

Figure 6 Dual Crane Lift

- Explosives Handling:
  The Contractor shall ensure all lift plans, equipment, and operators are certified and compliant for the lifting and handling of explosive materials, specifically including Hazard Class/Division 1.1 and 1.3 explosives.

Table 1 Motor Explosives Hazard Class

Motor	Prop. Wt. (lb.)	Total Wt. (lb.)	Class/Div
M55A1	45,589	51,514	1.3
SR19-AJ-1	13,740	15,509	1.3
SR19-M	13,650	15,495	1.3
M57A1	3,655	4,354	1.1
SR73-AJ-1	7,305	8,058	1.3
SR118	98,217	107,434	1.3
SR119	54,101	60,698	1.3
SR120	15,572	17,573	1.1

- Transportation Compliance and Permitting:
  The Contractor shall ensure transportation readiness and legal compliance for all RSLP movements.

  - The Contractor shall perform Department of Transportation (DOT) inspections on applicable RSLP transport vehicles and equipment.

- The Contractor shall secure all necessary local, state, and federal road permits required for transportation operations, to include routing for oversized, overweight, and hazardous material shipments.

- Calibration and Proof-Loading Services
  The Contractor shall provide routine and unscheduled calibration and proof-loading services to ensure mission tools and rigging equipment meet required safety and operational tolerances.

  - Serviced equipment includes, but is not limited to, Lifting beams, shackles, torque wrenches, below-the-hook load cells, and electric multimeters. All calibrations must trace back to accepted national standards (e.g., NIST).

- Asset Recovery and Mishap Remediation
  In the event of an operational mishap, transport incident, or equipment failure, the Contractor shall provide immediate asset recovery and site remediation support services to secure Government property, clear operational areas, and minimize mission impact.

- Refurbishment:
  - Lifecycle Extension and Modifications
    The Contractor shall perform refurbishment, technical upgrades, and modifications to extend the operational service life of legacy RSLP equipment and vehicles.

    - Legacy Systems Focus: Refurbishment efforts shall focus on, but are not limited to, the Type II Transporter and stage container.

Figure 7 Type II Transporter

Figure 8 Stage Container

- Modernization Strategy: The Contractor shall replace obsolete or legacy components with suitable Commercial-Off-The-Shelf (COTS) items to improve equipment longevity, reliability, and maintainability.
- System Specifics: Upgrades shall specifically address the complex hydraulic suspension and steering systems inherent to 1980s-era transport designs to ensure continued mission viability for Peacekeeper motor transport and similar requirements.

- Refurbishment Logistics and Transport
  The Contractor shall be responsible for the end-to-end transportation of assets between Government storage locations and vendor-contracted repair facilities.

  - Transport Requirements: For assets that are non-operational or require specialized handling, the Contractor shall provide all necessary transport equipment, including vendor-supplied trailers and high-capacity cranes for loading/unloading.
  - Primary Locations: The Contractor shall support asset movement to and from the following primary RSLP storage hubs:
    - Hill AFB, UT
    - Camp Navajo, AZ
    - Vandenberg SFB, CA

- Transportation:

- General and Specialized Freight
  the Contractor shall provide comprehensive transportation services for RSLP mission assets. This includes the safe and secure transport of general mission equipment, explosive components, and solid rocket motors.

  - General Equipment: Transported items may include, but are not limited to, heavy-duty jacks, lifting beams, slings, shackles, and industrial toolboxes required for ground support operations.

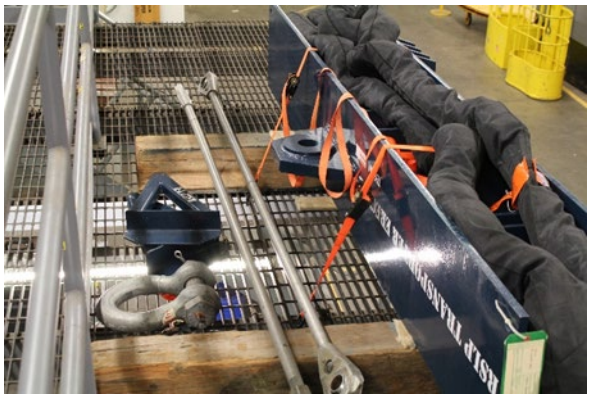

Figure 9 Beam and lifting equipment

- Oversized and Overweight Loads:
  The Contractor must be fully capable of planning, rigging, and transporting oversized and overweight (OS/OW) mission assets safely.

  - Dimensional and Weight Tolerances: The Contractor shall support the transport of specialized loads, including configurations weighing up to 130,000 lbs, with dimensional footprints up to 412 inches (L) x 119 inches (W) x 116 inches (H).

Figure 10 Stage Container on Heavy Hauler

- Regulatory and Hazardous Materials Compliance
  The Contractor shall ensure all transportation operations are executed in strict accordance with legal and safety requirements.

- Law and Regulation: The Contractor shall comply with all applicable local, state, and federal laws governing commercial freight and specialized transport.
- Hazardous Materials (HAZMAT): The Contractor shall maintain all necessary certifications, routing approvals, and compliance measures required for the transport of explosive components and hazardous materials (e.g., rocket motors, ordnance).

- Robust Program and Property Management:
  - Contractor shall manage, control, maintain, and safeguard all Government Furnished Property (GFP) in accordance with FAR Part 45. Equipment to include but not limited to Type II transporters, Kenworth tractors and strongback trailer.

Table 2 Equipment listing and Info

Equipment nomenclature	Model #	Amount	Stored Location	Maintenance frequence	Transportation	Notes
LPS Trailer	106 HW	6	CN	Pre mission use	Any launch location	Maintenance will be to refurb and bring back to usable condition. LPS used in harsh environments that cause corrosion
Generator Trailer		1	CN	Pre mission use	Any launch location	Maintenance will be to refurb and bring back to usable condition. Generators used in harsh environments that cause corrosion
Rocket engine Trailer	67J30520-70	7	CN	Annual,	Hill AFB, UTTR, Promontory,	Annual maintenance required for use
Type II transporters	(NSN 1450-01-118-1667) (P/N 8663T0000000-020)	14	HAFB	Annual, emergency maintenance, Refurbishment	VASFB, Kodiak Island and any other launch locations	Annual maintenance required for use. Emergency maintenance required to support missions, these are very old vehicles. Refurbishment needed to update vehicle parts and extend use of vehicles past 2030.
Strongback		1	VSFB	Annual maintenance	VSFB. Any minotaur launch location	Annual maintenance required for use

Kenworth Tractor	(NSN 2320-01-692-3498) (P/N 20181010-10)	3	VSFB	Annual maintenance	CN, VSFB, Kodiak Island, any launch locations	Annual maintenance required for use. Tractor paired with the Type II Transporter
Kenworth Tractor	(NSN 2320-01-692-3498) (P/N 20181010-10)	3	HAFB	Annual maintenance	CN, VSFB, Kodiak Island, any launch locations	Annual maintenance required for use. Tractor paired with the Type II Transporter
Talbert Trailer	(NSN 1450-01-216-5896) (P/N 8U56121-01)	3	HAFB	Annual Maintenance	HAFB, UTTR	Annual maintenance required for use.
Gantry Crane	(NSN 3950-01-249-0153) (P/N MJ01000R)	1	HAFB	Annual Maintenance and Proof load	NA	Annual maintenance and proof load required for use.
20 ton A/C unit		1	CN	Pre mission use	Any launch location	Maintenance will be to refurb and bring back to usable condition. A/C units used in harsh environments that cause corrosion
40 ton A/C unit		1	CN	Pre mission use	Any launch location	Maintenance will be to refurb and bring back to usable condition. A/C units used in harsh environments that cause corrosion
5 ton A/C unit		1	CN	Pre mission use	Any launch location	Maintenance will be to refurb and bring back to usable condition. A/C units used in harsh environments that cause corrosion
Stage I Container	(NSN 8140-01-120-1323) (P/N 863T0200000-020)	5	HAFB	Annual maintenance and Proof Load	Any launch location	Annual maintenance and proof load required for use.
Stage II/III Container	(NSN 8140-01-120-1324) (P/N 863T0300000)	11	HAFB	Annual maintenance and Proof Load	Any launch location	Annual maintenance and proof load required for use.
ATK beam	C10044018	2	HAFB	Annual maintenance and Proof Load	VSFB, Kodiak Island, Indian Island,	Annual maintenance and proof load required for use.
01800 Beam	UNK	1	HAFB	Annual Proof Load	HAFB, Promontory	Annual Proof load required before use
TE Beam		2	VSFB	Annual Proof Load	Any launch location	Annual Proof load required before use
MT Jacks		2	VSFB	Annual maintenance	Any launch location	Annual maintenance required for use
Translating Jacks		2	VSFB	Annual maintenance	Any launch location	Annual maintenance required for use
Pneumatic Cart			VSFB	Annual maintenance	Any launch location	Annual maintenance required for use
Pneumatic Cart	(NSN 4935-01-119-5398) (P/N	7	HAFB	Annual maintenance	Any launch location	Annual maintenance required for use

	863T0960230-019)					
Misc. Shackles		58	VSFB	Annual Proof Load	Any launch location	Annual maintenance required for use
Spreader Bar (Strongback roof)		1	VSFB	Annual Proof load	VSFB	Annual maintenance required for use
Misc. Slings		45	VSFB	Annual Proof load	Any launch location	Annual maintenance required for use
Toe Fittings	(HILL AFB IPE asset ID's LD999926, LD999927, LD999928, LD999929)	16 (Hill AFB: 4 Total)	VSFB/Hill/CN	Annual Proof load	Any launch location	Annual maintenance required for use

- Contractor shall provide detailed program management, including an Integrated Master Schedule (IMS), inventory and maintenance forecasting reports, and expenditure reports.

Program requirements are derived from and support these sources below:

- RSLP Mission Need: "Logistics is unable to support quick and responsive acquisitions actions above the GPC threshold. This acquisition actions can include transportation services, emergency maintenance, one of kind equipment procurement and crane services...This gap of support will and has put many missions in harm of delays or cancelation." Examples include but not limited to, tire repairs, battery jumps, diesel generator repair, hydraulic repair and tractor repairs.
- Draft RSLP Logistics PWS: Defines the scope and specific requirements for procurement, services, refurbishment, and transportation necessary to support RSLP missions.
- Space Capstone Publication (Aug 2020): "During conflict, space launch must be dynamic and responsive, providing the ability to augment or reconstitute capability gaps from multiple locations." This principle extends to the ground logistics that make launch possible.