

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. P00068		3. EFFECTIVE DATE 01 Oct 00		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (if applicable)		6. ISSUED BY CODE		7. ADMINISTERED BY (if other than Item 6) CODE	
45 CONS/LGCZL 14640 Hangar Road, E&L Bldg/CCAS Patrick AFB FL, FL 32925-2206					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)			(x)	9A. AMENDMENT OF SOLICITATION NO.	
Sverdrup Technology, Inc. 600 William Northern Blvd Tullahoma, TN 37388				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO.  F08650-98-C-0035	
			X	10B. DATED (SEE ITEM 13) 23 April 1998	
CODE	1EMB6	FACILITY CODE			

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

- (a) By completing Items 8 and 15, and returning ... copies of the amendment;
- (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
- (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

NET INCREASE \$0.00

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43 103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-2, entitled "Changes-Cost Reimbursement (Aug 87)(Alt II)(Apr 84)
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor [ ] is not, [ X ] is required to sign this document and return One copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE SCHEDULE

POC: PAM NAPOLETANO  
Phone: 494-5560  
Email: pamelanapoletano@patrick.af.mil  
MAILING DATE: SEP 26 2001

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) WILLIE E. ELDRIDGE - DEP. GEN. MGR.		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) JOHN M. HAMMERLING Contracting Officer	
15B. CONTRACTOR/OFFEROR Willie E. Eldridge (Signature of person authorized to sign)	15C. DATE SIGNED 26 Sept 2001	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 26 Sept 01

Standard Form 30 (Block 14 continued)

1. The purpose of this supplemental agreement is to:

A. Descope FY 01 effort for off-site facilities, Titan locomotive maintenance, no facility management of E&L Facility, no O&M of Complex 36 blockhouse blast door, O&M of LSF security system, and O&M of lightning monitoring system.

B. Incorporate FY 01 effort for O&M of Ordnance Facilities.

C. Make appropriate SOW changes to support descope and inclusion of O&M of Ordnance Facilities.

D. Realign \$45,627 from CLIN 0020 to support equitable adjustment difference between the increase for Ordnance Maintenance and the decrease for descoped items.

E. This modification is under the authority of FAR 52.243-2, entitled "Changes-Cost Reimbursement (Aug 87)(Alt II)(Apr 84). Performance period is 01 Oct 00 thru 30 Sep 01. Funding provided under existing funds in CLIN 0020 with no change in contract value.

2. SUMMARY OF CHANGES – "SUMMARY OF CHANGES FOR THE PAYMENT OFFICE"

A. Part I – Schedule, Section B:

Page Ref	CLIN	Changed From	Changed To	Net Change
9 of 65	CLIN 0016	\$ 34,350,967	\$ 34,392,557	\$ 41,590
9 of 65	CLIN 0019AA	\$ 1,281,763	\$ 1,283,374	\$ 1,611
9 of 65	CLIN 0019AB	\$ 1,903,379	\$ 1,905,459	\$ 2,080
9 of 65	CLIN 0019AC	\$ 318,394	\$ 318,740	\$ 346
9 of 65	Total Award Fee	\$ 3,503,536	\$ 3,507,573	\$ 4,037
10 of 65	CLIN 0020	\$ 7,936,730	\$ 7,891,103	(\$ 45,627)
10 of 65	Total 0016-0018	\$ 35,970,704	\$ 36,012,294	\$ 41,590
10 of 65	Total 0019	\$ 3,503,536	\$ 3,507,573	\$ 4,037
10 of 65	Total 0020	\$ 7,936,730	\$ 7,891,103	(\$ 45,627)

3. Section J, SOW:

Statement of Work pages revised to indicate changes:

- (1) SOW, page 42
- (2) Appendix A, page A-2
- (3) Appendix A, page A-4
- (4) Appendix A, page A-6
- (5) Appendix A, page A-21
- (6) Appendix A, page A-22
- (7) Appendix A, page A-29
- (8) Appendix A, page A-34

4. As a result of the above referenced changes, remove the contract pages listed under Column I and insert the revised pages under Column II. (Areas of change are annotated by a vertical line in the right margin)

Column I (Remove)

Page 9-10  
SOW, page 42  
Appendix A, page A-2  
Appendix A, page A-4  
Appendix A, page A-6  
Appendix A, page A-22  
Appendix A, page A-29  
Appendix A, page A-34

Column II (Insert)

Page 9-10  
SOW, page 42  
Appendix A, page A-2  
Appendix A, page A-4  
Appendix A, page A-6  
Appendix A, page A-22  
Appendix A, page A-29  
Appendix A, page A-34

5. All other terms and conditions remain the same.

**In consideration of this modification agreed to herein as complete equitable adjustment for this change, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to this change.**

**////////////////////////////////////// END PAGE //**

**SECTION B - SUPPLIES OR SERVICES AND PRICES/COST (cont'd)**

**Launch Operations and Support Contract  
Option Period 3 - FY 01 (1 Oct 00 - 30 Sep 01)**

<u>Item No.</u>	<u>Description</u>	<u>Estimated Cost</u>								
0016	<p><b>Operations and Maintenance, Operations and Support and Operations and Management</b> The contractor shall furnish all necessary supplies and services required to perform program and business management, cost reporting and segregation, environmental, industrial security, technical data, safety, exercises, training and other related items as required by launch program in accordance with the Statement of Work for the LO&amp;SC, dated <u>April 1998</u>, and the performance standards document. <u>COST-PLUS-AWARD-FEE</u></p> <table> <tr> <td></td> <td align="center"><u>From</u></td> <td align="center"><u>Change</u></td> <td align="center"><u>To</u></td> </tr> <tr> <td>Est. Cost</td> <td align="right">\$ 34,350,967</td> <td align="right">\$ 41,590</td> <td align="right">\$ 34,392,557</td> </tr> </table>		<u>From</u>	<u>Change</u>	<u>To</u>	Est. Cost	\$ 34,350,967	\$ 41,590	\$ 34,392,557	\$ 34,392,557
	<u>From</u>	<u>Change</u>	<u>To</u>							
Est. Cost	\$ 34,350,967	\$ 41,590	\$ 34,392,557							
0017	<p><b>Systems Management</b> The contractor shall furnish all necessary supplies and services required to perform systems engineering, safety engineering, logistics support analysis, configuration management, procedure development, and studies in accordance with the Statement of Work for the LO&amp;SC, dated <u>April 1998</u>, and the performance standards document. <u>COST-PLUS-AWARD-FEE</u></p> <table> <tr> <td></td> <td align="center"><u>From</u></td> <td align="center"><u>Change</u></td> <td align="center"><u>To</u></td> </tr> <tr> <td>Est. Cost</td> <td align="right">\$ 3,119,737</td> <td align="right">\$ (1,500,000)</td> <td align="right">\$ 1,619,737</td> </tr> </table>		<u>From</u>	<u>Change</u>	<u>To</u>	Est. Cost	\$ 3,119,737	\$ (1,500,000)	\$ 1,619,737	\$ 1,619,737
	<u>From</u>	<u>Change</u>	<u>To</u>							
Est. Cost	\$ 3,119,737	\$ (1,500,000)	\$ 1,619,737							
0018	<p><b>Data</b> The contractor shall furnish all necessary supplies and services required to deliver data as set forth in the Accessible Data Products Lists, and Appendix K of the Statement of Work. <u>COST-PLUS-AWARD-FEE</u></p>	NSP								
0019	<p><b>Award Fee Pool</b> (In accordance with Award Fee Plan)</p>									
0019AA	<p><b>Award Fee Pool</b> (1 Oct 00 through 28 Feb 01)</p> <table> <tr> <td></td> <td align="center"><u>From</u></td> <td align="center"><u>Change</u></td> <td align="center"><u>To</u></td> </tr> <tr> <td>Est. Cost</td> <td align="right">\$ 1,281,763</td> <td align="right">\$ 1,611</td> <td align="right">\$ 1,283,374</td> </tr> </table>		<u>From</u>	<u>Change</u>	<u>To</u>	Est. Cost	\$ 1,281,763	\$ 1,611	\$ 1,283,374	\$ 1,283,374
	<u>From</u>	<u>Change</u>	<u>To</u>							
Est. Cost	\$ 1,281,763	\$ 1,611	\$ 1,283,374							
0019AB	<p><b>Award Fee Pool</b> (1 Mar 01 through 31 Aug 01)</p> <table> <tr> <td></td> <td align="center"><u>From</u></td> <td align="center"><u>Change</u></td> <td align="center"><u>To</u></td> </tr> <tr> <td>Est. Cost</td> <td align="right">\$ 1,903,379</td> <td align="right">\$ 2,080</td> <td align="right">\$ 1,905,459</td> </tr> </table>		<u>From</u>	<u>Change</u>	<u>To</u>	Est. Cost	\$ 1,903,379	\$ 2,080	\$ 1,905,459	\$ 1,905,459
	<u>From</u>	<u>Change</u>	<u>To</u>							
Est. Cost	\$ 1,903,379	\$ 2,080	\$ 1,905,459							
0019AC	<p><b>Award Fee Pool</b> (1 Sep 01 through 30 Sep 01)</p> <table> <tr> <td></td> <td align="center"><u>From</u></td> <td align="center"><u>Change</u></td> <td align="center"><u>To</u></td> </tr> <tr> <td>Est. Cost</td> <td align="right">\$ 318,394</td> <td align="right">\$ 346</td> <td align="right">\$ 318,740</td> </tr> </table>		<u>From</u>	<u>Change</u>	<u>To</u>	Est. Cost	\$ 318,394	\$ 346	\$ 318,740	\$ 318,740
	<u>From</u>	<u>Change</u>	<u>To</u>							
Est. Cost	\$ 318,394	\$ 346	\$ 318,740							
	<b>TOTAL PROPOSED AWARD FEE</b>	\$ 3,507,573								

**SECTION B - SUPPLIES OR SERVICES AND PRICES/COST (cont'd)**

**Launch Operations and Support Contract**

Option Period 3 - FY 01 (1 Oct 00 - 30 Sep 01)

<u>Item No.</u>	<u>Description</u>	<u>Estimated Cost</u>									
<b>0020</b>	<b>Service Systems Upgrades &amp; Modifications</b> Upon direction by the Contracting Officer, the contractor will prepare a cost and technical proposal to accomplish service systems upgrades and modifications. Contract type will be determined by individual request for proposal, and work will be added by individual subCLINs. See contract clause H-25. The government's estimated cost for this line item is \$5M. Each upgrade/modification requires a DD250 (See Section D)	\$ 7,891,103									
	<table border="0"> <tr> <td></td> <td align="center"><u>From</u></td> <td align="center"><u>Change</u></td> <td align="center"><u>To</u></td> </tr> <tr> <td>Est. Cost</td> <td align="right">-</td> <td align="right">\$ 7,936,730</td> <td align="right">\$ (45,627) \$ 7,891,103</td> </tr> </table>		<u>From</u>	<u>Change</u>	<u>To</u>	Est. Cost	-	\$ 7,936,730	\$ (45,627) \$ 7,891,103		
	<u>From</u>	<u>Change</u>	<u>To</u>								
Est. Cost	-	\$ 7,936,730	\$ (45,627) \$ 7,891,103								
<b>0020AA</b>	#12074EOP - Seal/Epoxy Coat Clean Room Floor at SPIF	\$	354,927.00								
<b>0020AB</b>	#12020EOV-Provide Installation Mounting Support for Proof Load Test Tool	\$	3,671.00								
<b>0020AC</b>	#12109E1P-Fire Suppression Analysis VIB(COS Room)	\$	7,806.00								
<b>0020AD</b>	#SMARF- Crane Load Test Design	\$	19,092.00								
<b>0020AE</b>	#12016EOP- Provide Remote & Automatic Temp/Humidity Control Capability for Cooling Towers, HVAC	\$	23,388.00								
<b>0020AF</b>	#12120EOP- Provide Protection of Flight Hardware from 50/25T Crane Lubricants, LC-40	\$	5,962.00								
<b>0020AG</b>	#12027EOV-Upgrade SPIF 5Ton North & South EAL Cranes	\$	122,147.00								
<b>0020AH</b>	WON#040933- Modify UES Personnel Tie-Offs CX-40	\$	39,228.00								
<b>0020AJ</b>	#12156EOP-Provide Raised Floor and Cable Trays Ground Test Station, DPF	\$	50,741.00								
<b>0020AK</b>	#12143 Water Deluge Pond Liners, LC 17A/B	\$	125,274.00								
<b>0020AL</b>	#12051EOV Provide Power to Test Equipment for Batteries of Titan Guidance System, RM V115, VIB	\$	4,719.00								
	<b>ESTIMATED COSTS (CLINS 0016 - 0018)</b>	\$	36,012,294								
	<b>AWARD FEE (CLIN 0019)</b>	\$	3,507,573								
	<b>ESTIMATED COST (CLIN 0020)</b>	\$	7,891,103								
	<b>ESTIMATED TOTAL FOR ALLCLINS (FY01)</b>	\$	47,410,970								

<b>Figure 3.3.14 Standards of Performance – Low Voltage</b>		
Operation and maintenance of low voltage power systems, associated equipment, and software	Low voltage systems are maintained in a state of readiness and availability that meets all operational requirements.	Review of CMMS database.
Maintain grounding systems	Grounding systems are maintained in a state of readiness and availability that meets all operational requirements.	Review of CMMS database. Results of grounding checks.

### 3.3.15 Online Lightning Monitoring System

**3.3.15-1 Requirements** – The contractor shall maintain the Online Lightning Monitoring System.

**3.3.15-2 Standards of Performance** – The standards of performance are shown in Figure 3.3.15.

<b>Figure 3.3.15 Standards of Performance – Online Lightning Monitoring System</b>		
<b>Key Required Services</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
Maintenance of Online Lightning Monitoring System	Maintenance procedures are established and verified prior to turn over of the system. Systems are maintained in a state of readiness and availability that meets all operational requirements.	Review of maintenance procedures. Review of CMMS database.

### 3.3.16 Facility Control Monitoring Systems

**3.3.16-1 Requirements** – The contractor shall operate and maintain the facility control monitoring systems as identified in Appendix A.

**3.3.16-2 Standards of Performance** – The standards of performance are shown in Figure 3.3.16.

<b>Figure 3.3.16 Standards of Performance – Facility Control Monitoring Systems</b>		
<b>Key Required Services</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
Operation and maintenance of facility control monitoring systems	Systems are maintained in a state of readiness and availability that meets all operational requirements.	Review of maintenance procedures. Review of CMMS database.

### 3.3.17 Elevators

**3.3.17-1 Requirements** – The contractor shall maintain and certify elevators identified in Appendix A, to be available for use during tests, operations, and other required times. The contractor shall provide the necessary inspections and certifications. Inspectors shall be properly certified in accordance with State and Federal law.

- **Low Voltage** – UPS, IPS, automatic or manual, back-up diesel generators, where dedicated, and all associated circuits including electrical/motor backup generator's and associated hook-up points. All components from, and including, the low voltage connector of the power transformer includes: the bus bar, all circuits, switch gears, and outlets supplying power throughout the facility, internal/external bulbs, fixtures, and ballast's emergency lighting. Interface point is first facility main disconnect which is 480V or lower (includes the disconnect).

### **Environmental**

- **Cleanroom** – Monitoring, detection, and reporting systems for particulate matter and non-volatile residue; also includes: walls, floor, ceiling, air shower assemblies, all clean-room garments, shoe cleaners, floor vacuums, and floor.
- **Fire Protection** – Suppression and detection. Includes piping, interior alarm wiring, valves, nozzles, software controls, detectors, warning, and all associated hardware. Interface point for a wet system, is cut-off valve prior to the riser and includes the valve.
- **HVAC** – HVAC (Heating, Ventilating, and Air Conditioning) includes: software, air handlers, motors, drive assemblies, chillers, compressors, cooling towers, boilers, humidifier/dehumidifier, air exhaust, purge fans, associated pneumatic and electronic monitor and control components, and all associated support equipment.
- **Oxygen Hazard Monitoring** – Detection and reporting systems for Oxygen depletion.
- **Propellant Vapor Detection** – Detection and reporting systems for propellant vapors.

### **Equipment**

- **Cold Soak** – Operation and maintenance of Cold-Soak equipment.
- **Facility Control Monitoring Systems** – Operation and maintenance of all facility control monitoring systems. Includes all cabling, consoles, and associated equipment.
- **Online Lightning Monitoring System** – Sensors, wiring, conduit, portable and installed monitoring devices (workstations).
- **Railroad** – All railroad tracks and subsurface below tracks, locomotives (Not required for period of 1 Apr 98-30 Sep 01), flat rail cars, rail ties, rail splices, track switches, etc. (Includes rails inside facilities, as well as outdoor.)
- **Security Alarm System** – Operation and maintenance of security alarm system and all associated equipment. (This is not the Advanced Technology Electronic Security System.)
- **X-Ray** – Operation and maintenance of all X-ray equipment.

### **Fluid and Gas**

- **Breathing Air** – Breathing Air from, and including, the tube bank connector to, and including, the facility-installed breathing air connector.
- **Compressed System Air** – Compressed System Air from, and including, the compressor intake to, and including, the facility installed connectors.
- **Fuel** – Includes fuel fill, vent, drain, and scrubbers.
- **Gaseous CO2 System** – Includes dewar, piping, dry ice generation, etc.
- **Gaseous Helium System** – Gaseous Helium from, and including, the tube bank connector to, and including, the facility-installed interface.
- **Gaseous Nitrogen** – From and including installed pressure vessels, the tube bank connector or designated control valve to, and including, the facility-installed interface.

## Water

- **Containment** – Industrial effluent and sediment, including disposal, pumps, piping, valves, etc.
- **Deluge/Overpressure Suppression** – Valves, pipes, nozzles, monitoring and control system, and associated hardware.
- **Potable Water** – All domestic water. Facility plumbing and associated hardware.
- **Pump Station Equipment** – Including all equipment and hardware associated with providing pressurized water, including but not limited to tanks, pipes, pumps, etc. Interface is the outlet side of cut-off valve supplying water to the pump station supply tank.
- **Sanitary Sewer** – Interface is downstream side of the potable water supply valve, includes toilets, sinks, storm drains, etc.

## Appendix A-2 – Spacecraft Service Systems

### 1.0 Purpose and Scope

This appendix identifies the critical facilities, and some of the systems and equipment in those facilities, supporting spacecraft service systems at CCAS.

### 2.0 Responsibilities

Spacecraft Service Systems are composed of, but not limited to, the following components in Figure A-2-1, Spacecraft Critical Facilities Database, shown on pages A-5 through A-13. It identifies the systems and equipment in each of the critical spacecraft service facilities which the LO&SC shall operate and maintain.

### 3.0 Facilities

Spacecraft service facilities listed below require Facility Management. Facilities include, but are not limited to:

- |                           |  |
|---------------------------|--|
| 3.1 ESA 60 Complex        | 3.5 Spacecraft Processing Integration Facility (SPIF) area |
| 3.2 E & L, Facility 1704* | 3.6 Launch Support Facility area                           |
| 3.3 Area 59               | 3.7 ITL X-Ray area   |
| 3.4 SAB Compound          |  |

\*Not a requirement for Option Period 2 (FY 00) and Option Period 3 (FY 01)

**Figure A-2-1 Spacecraft Critical Facilities Database (continued)**

<b>Generator Building – Facility 34716- Deleted</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	Deleted
Communication	TOPS/Digital Voice	Deleted
Communication	Telephone/LAN wiring	Deleted
Electrical	Low Voltage	Deleted
Electrical	Grounding	Deleted
Environmental	HVAC	Deleted
Environmental	Fire Protection	Deleted
Structure	Special Purpose Doors	Deleted
Structure	Basic Structure	Deleted
Water	Sanitary Sewer	Deleted
Water	Potable Water	Deleted
<b>Interim Hardware Storage Facility – Facility 34715-Deleted</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	Deleted
Communication	Telephone/LAN wiring	Deleted
Communication	Public Address System	Deleted
Electrical	Low Voltage	Deleted
Electrical	Grounding	Deleted
Environmental	HVAC	Deleted
Environmental	Fire Protection	Deleted
Structure	Special Purpose Doors	Deleted
Structure	Basic Structure	Deleted
Water	Sanitary Sewer	Deleted
Water	Potable Water	Deleted
<b>Launch Support Facility – Facility 1777</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	
Communication	Telephone/LAN wiring	
Communication	TOPS/Digital Voice	
Communication	Wide band Transmission	
Communication	RF Transmission	
Communication	Narrow band Transmission	
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	
Equipment	Facility Control Monitoring Systems	
Equipment	Security Alarm System*	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	

\* Not a requirement for Option Period 2 (FY 00) and Option Period 3(FY 01)

## **Appendix A-4 – Atlas Service Systems**

### **1.0 Purpose and Scope**

This appendix identifies the critical facilities, and some of the systems and equipment in those facilities, supporting Atlas launch vehicle service systems at CCAS.

### **2.0 Responsibilities**

Atlas Service Systems are composed of, but not limited to, the following components in Figure A-4-1, Critical Facilities Database, shown on pages A-22 through A-23. It identifies the systems and equipment in each of the critical Atlas facilities which the LO&SC shall operate and maintain.

### **3.0 Facilities**

Atlas service facilities listed below require Facility Management. Facilities include, but are not limited to:

- 3.1 Atlas Blockhouse area
- 3.2 Space Launch Complex 36A
- 3.3 Hangar K area
- 3.4 Hangar J area
- 3.5 Atlas Administrative Buildings, Facilities 5500AY, 5505, 5500AV
- 3.6 Pump Station #4 area

**Figure A-4-1 Atlas Critical Facilities Database**

<b>Blockhouse – Facility 5501*</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	
Communication	RF Transmission	RF for hand radios
Communication	Narrow band Transmission	All equipment associated with sequencer
Communication	Antennas	Antenna supports sequencer
Communication	TOPS/Digital Voice	
Communication	Public Address System	
Environmental	Fire Protection	
Environmental	HVAC	8 ton and 30 ton unit
Equipment	Facility Control Monitoring Systems	
Mechanical	Elevators	Material Lift
Mechanical	Misc. Support Equipment	Bunker Periscopes
Safety	Eye washes /Decontaminate showers	
Safety	Hazard Notification	Evacuation Horn
Structure	Special Purpose Doors	Blast door is not a requirement for Option 3 (FY 01)
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>CX-36A – Facility 5500</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	
Communication	Wide band Transmission	
Communication	Narrow band Transmission	
Communication	TOPS/Digital Voice	
Communication	Public Address System	
Environmental	Propellant Vapor Detection	
Environmental	HVAC	All HVAC except ECS; include ramp pressure blower, instrumentation cubicle, explosion proof units
Environmental	Fire Protection	
Environmental	Oxygen Hazard Monitoring	Units on service tower
Equipment	Online Lightning Monitoring System*	*Not a requirement for Option Period's 1 (FY99), 2 (FY 00), and 3 (FY 01).
Equipment	Facility Control Monitoring Systems	
Mechanical	Elevators	2 elevators
Safety	Eye washes/Decontaminate showers	
Structure	Basic Structure	Identified critical structures: MST – FACILITY 5553, UT – FACILITY 5500, LSB – FACILITY 5510

**Figure A-5-1 Titan Critical Facilities Database (continued)**

**Payload Fairing Cleaning Building – Facility 70503 (concluded)**

System	Sub-system	Notes
Mechanical	Misc. Support Equipment	Equipment used in cleanrooms except robot
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Safety	Eye washes /Decontaminate showers	
Safety	Fall Protection	
Structure	Special Purpose Flooring	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Potable Water	
Water	Sanitary Sewer	

**Pump Station #7 – Facility 29150**

System	Sub-system	Notes
Communication	Narrow band Transmission	
Communication	Telephone/LAN wiring	
Communication	Public Address System	
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Fire Protection	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Fuel	Diesel
Safety	Eye washes /Decontaminate showers	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	
Water	Pump Station Equipment	

**Railroad/Car System – Facility 20350\***

System	Sub-system	Notes
Equipment	Railroad (operation not exclusive to LO&SC)	tracks, subsurface below tracks, ties, splices, switches
Equipment	Railroad	Locomotives. Provide organizational level maintenance only.**
Equipment	Railroad	Ox ullage railcars – corrosion control only
Equipment	Railroad	Fuel ullage railcars – corrosion control only

**Solid Motor Assembly And Readiness Facility – Facility 69800**

System	Sub-system	Notes
Communication	Wide band Transmission	
Communication	Narrow band Transmission	
Communication	Telephone/LAN wiring	
Communication	Public Address System	
Communication	CCTV	Currently being installed

\* Railroad/car System – facility 20350 transfers to LO&SC responsibility on 1 October 1998

\*\*Not a requirement for Option Period 2 (FY00) and Option Period 3 (FY 01)

## Appendix A-12 – Ordnance Service Systems

### 1.0 Purpose and Scope

This appendix identifies the critical facilities and some of the systems and equipment in those facilities, supporting ordnance services at CCAS.

### 2.0 Responsibilities

The LO&SC shall operate, maintain, and control the facilities and systems identified in Figure A-12-1. This responsibility includes the requirement to perform facility management of these facilities. O&M responsibilities required through 30 Sep 01.

**Figure A-12-1 Ordnance Critical Facilities Database**

<b>Minuteman 1- Facility 72650</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	Area and Facility
Communication	Telephone/LAN Wiring	
Communication	Grounding	
Communication	Low Voltage	
Environmental	HVAC	includes in-ground diesel fuel tank
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Minuteman 2- Facility 72665</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	Area and Facility
Communication	Telephone/LAN Wiring	
Communication	Grounding	
Communication	Low Voltage	
Environmental	HVAC	includes above ground diesel tank
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Minuteman 3- Facility 72680</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	Area and Facility
Communication	Telephone/LAN Wiring	
Communication	Grounding	
Communication	Low Voltage	
Structure	Basic Structure	
Structure	Special Purpose Doors	