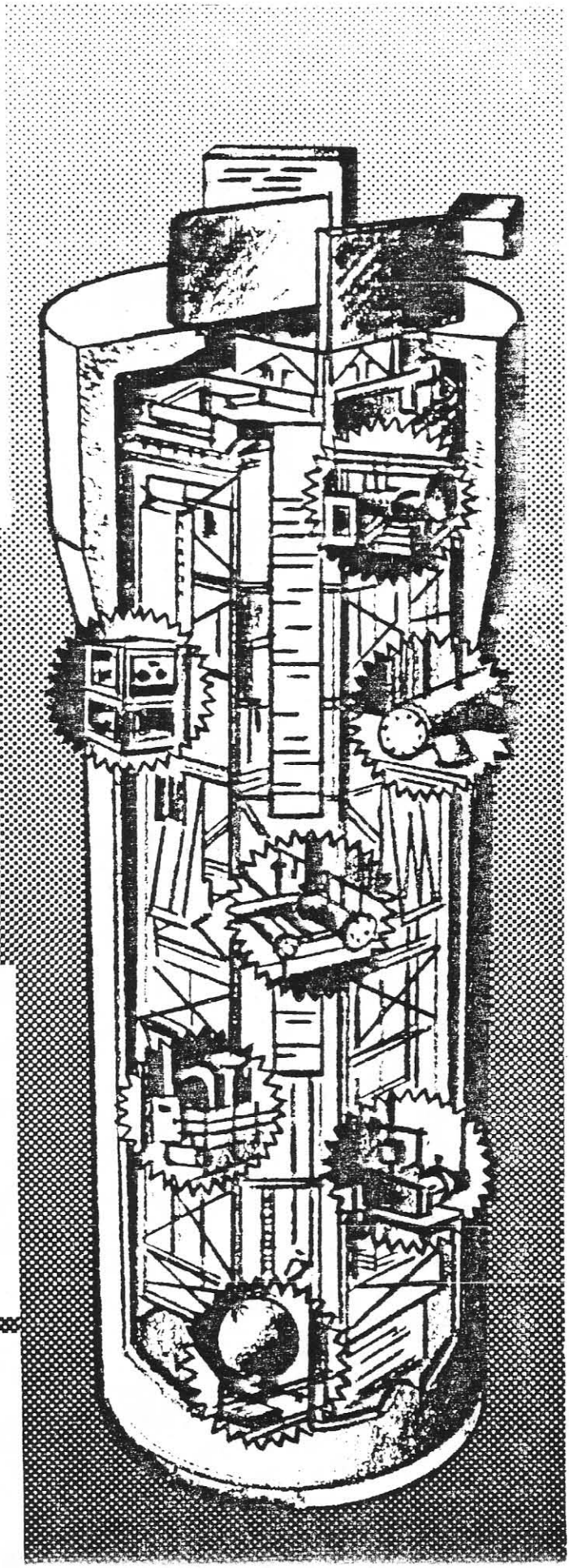
ATLAS "F" MISSILE
LAUNCHING SITES' EQUIPMENT AND MATERIAL SALE

SALE NO. 01-6012

DEPT. OF DEFENSE

DEFENSE LOGISTICS SERVICES CENTER
DEFENSE SUPPLY AGENCY
GUARANTEED DESCRIPTIONS

SEALED BID SALE



THURSDAY — JANUARY 13, 1966

BID OPENING AT 2:30 PM

IN ROOM 10-6

Battle Creek Federal Center

FOR FURTHER INFORMATION CALL OR WRITE

:ENSE LOGISTICS SERVICES CENTER
ATTN: DLSC-MRS
FEDERAL CENTER
BATTLE CREEK, MICHIGAN 49016

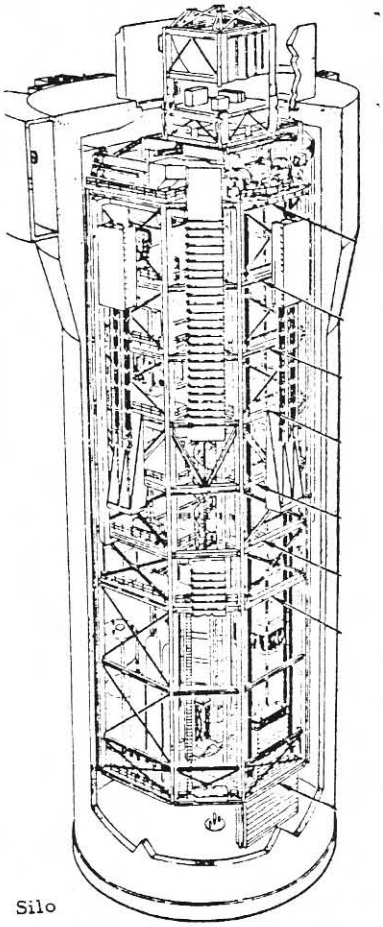
PHONE: Area Code 616 — 962-6511 Ext. 6725

FOREWORD

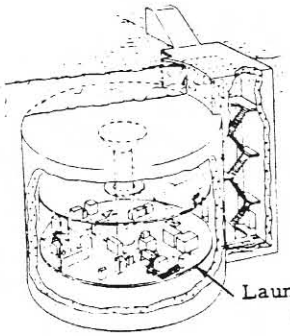
ATLAS "F" MISSILE SILO

The silo is an underground facility. It is approximately 52 feet in diameter and approximately 174 feet in depth with a concrete wall varying in thickness from approximately 2 feet to 9 feet. Within the silo an octagonal structural steel crib divided into eight levels is suspended by a system of mechanical springs. Mounted within the crib are the numerous systems necessary to launch a missile, as well as a personnel freight elevator and a spiral stairway. The silo also contains electric generating and associated auxiliary and control equipment, heating, ventilation, and air conditioning equipment necessary to support the missile. Located within the crib is a 21 foot square, enclosed, insulated, vertical shaftway (missile enclosure area - MEA) containing a launcher platform, weighing approximately 270,000 pounds. It is suspended by a wire rope cable system and serves as the elevator to lift the missile to launch position. The launch platform is divided into 4 levels which contain the equipment to service the missile. NOTE: The missiles are no longer in the silos. The total suspended weight of the crib and launch platform with equipment is approximately 1,500 tons.

Located approximately 100 feet away and also underground is the launch control center (LCC). It is tunnel-connected to the silo at level 2 of the silo and just below level 2 of the LCC. The LCC is a reinforced, concrete, cylindrical-shaped room approximately 44 feet in diameter and 33 feet high, containing a steel crib, divided into 2 levels. It is suspended by an air cushioned suspension system. The LCC contains some missile launch control equipment, facility control equipment, and communications facilities. It also contains an office, ready room, storage area, heat, ventilating and air conditioning equipment, kitchen, messing and sanitary facilities for the crew. A tunnel with blast resistant closures provides access between the LCC and the silo. Personnel access to the LCC is through a concrete opening at ground level to a descending staircase also equipped with blast resistant closures.



Silo



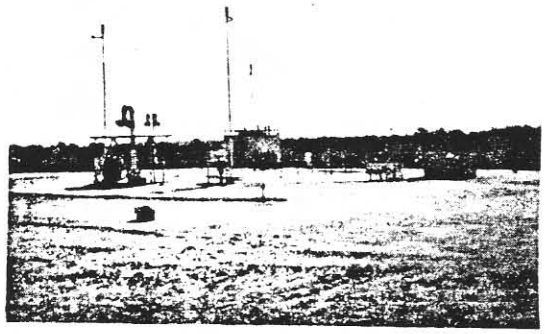
Launch Control Center

Reinforced concrete silo doors at ground level (CAP) ar approximately 30 inches thick. The silo complex is protected from intruders by a chain link fence with a remote controlled gate and floodlights

IT HAS BEEN DETERMINED THAT THIS PROPERTY IS NO LONGER NEEDED BY THE FEDERAL GOVERNMENT.

THE FOLLOWING PROPERTY AND EQUIPMENT IS PHYSICALLY LOCATED AT ATLAS "F" MISSILE SITE NR. 1 (PLATTSBURGH A.F.B. AUX. SITE 1) WHICH IS ADJACENT TO CHAMPLAIN, NEW YORK. FOR INSPECTION OF THIS SITE PRIOR ARRANGEMENTS MUST BE MADE (MINIMUM OF 48 HOURS NOTICE FOR APPOINTMENTS) BY CONTACTING LT. COL. MELVIN DART, USAF, COMMANDER SITE DEACTIVATION TASK FORCE, (OR HIS AUTHORIZED REPRESENTATIVE) BLDG. 701, PLATTSBURGH AIR FORCE BASE, PLATTSBURGH, NEW YORK. TELEPHONE: AREA CODE 518, 563-4500, EXTENSION 422 OR 421 BETWEEN 8:00 A.M. AND 4:00 P.M. EST MONDAY THROUGH FRIDAY (EXCLUDING HOLIDAYS).

SITE 1



1. EX-ATLAS "F" MISSILE SITE NR. 1 PERSONAL PROPERTY AND EQUIPMENT (DOES NOT INCLUDE REAL ESTATE): INCOMPLETE, PARTS AND ITEMS MISSING.

MAJOR ITEMS OF PROPERTY AND EQUIPMENT REMAINING AT THE SITE FOR THE PURCHASER: (CAUTION - EACH BIDDER IS URGED TO INSPECT THE SITE).

a. DESIGNATED AEROSPACE GROUND EQUIPMENT (AGE).

(1) 1 each - Drive Assembly, Launch Platform

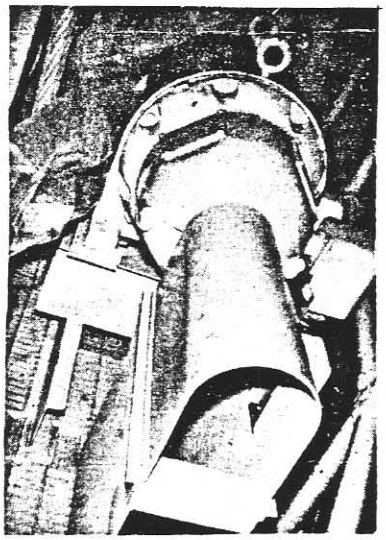
Consists of the following components:

1) Two (2) control cabinets containing controls necessary to operate the drive assembly. Appropriate DC power for these cabinets is supplied by self-contained DC power supplies that rectify and regulate the incoming 480 V, 3 ph., 60 cyc. power.

2) Two (2) drive motors, one motor for high-speed, one motor for slow-speed, each directly connected to tachometer generators. RPM is controlled by external saturable reactors. Motors are mechanically and/or electrically disconnected from each other in performance of either a lifting or lowering operation, with or without a loaded platform.
Motor Data: High-Speed-GE, Model 5M1505GKI, Type M, Frame 505Z, 125 HP, 440 V, 3 ph., 60 cyc., 1780 RPM.

Low-Speed-GE - Same,

3) Two (2) tachometer generators, attached directly to the motors, having an output voltage directly proportional to the drive motor speed.



Drive Assembly, Launch Platform 1.a (1)

Type: 5BC46AB1775, 100 V, 1,000 RPM. Primary amps. 157, Secondary amps. 130, Secondary voltage 438.

4) Main Drive System Speed Decreaser Gear Assembly. Drives the traction sheave unit assembly during slow-speed by the auxiliary speed decreaser through the coupling assembly disengaged. During high-speed operation, it is driven by the high-speed motor.

5) Auxiliary drive system speed decreaser gear assembly. A double reduction gear unit with concentric input and output shafts. Driven by slow speed motor and drives the main drive system through disengaging coupling during slow-speed operation. During high-speed operation, the auxiliary system is disconnected and idle.

6) Hydraulic brake assembly. Input: 2950/3100 PSIG hydraulic pressure. Torque Output: 90,000 LB. MIN. - 110,000 LB. MAX.

7) Two (2) traction sheave unit assemblies. Driven by the main speed decreaser gear assembly and apply traction force to cables in raising and lowering platform.
Operating Speed: 23.8 RPM (High), 1.96 RPM (Low), reversible rotation.
Overall Ratio: 5.65 to 1. Input Speed: 134.2 RPM, Output Speed: 23.8 RPM. Low Speed Drive Output: 2.28 RPM, High Speed Drive Input: 12.308 RPM.
Approx. Wt: 74,500 lbs.
Tag Nrs. 1-A-19 and 1-A-20
Location - Level 1, Silo.

(2) 1 each - Hydraulic Pumping Unit System

Unit supplies fluid, under pressure, through a distribution network to hydraulically operated components of the missile lifting system. Major components included in this system are:

(a) Hydraulic reservoir of welded steel construction with a capacity of 324 gallons.

(b) Two (2) electric motors; 1 each - Howell Electric, Model 100063-2-V-OJ, Frame C404UC, 40 HP, 440 V, AC, 3 ph., 60 cyc., 1185 RPM, and 1 each - Type SCT, Frame E182, 1 HP, 440 V, AC, 3 ph., 60 cyc., 1740 RPM.

(c) Axial piston pump, operating press. 3,000 PSIG, max. 5,000 PSIG, rated flow 20 GPM.

(d) Vane pump, operating pressure 1,000 PSIG, rated flow 3.7 GPM.

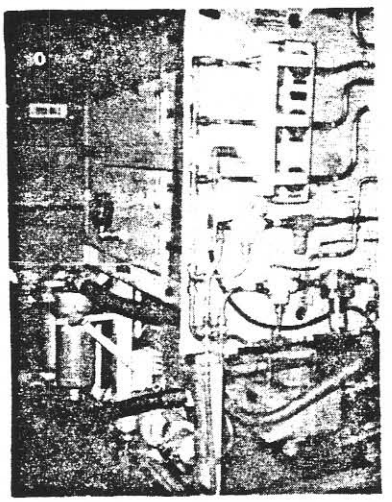
(e) Accumulators, 8 each - piston type, capacity (fluid) 20 gallons, (nominal) operating press. 3,000 PSIG.

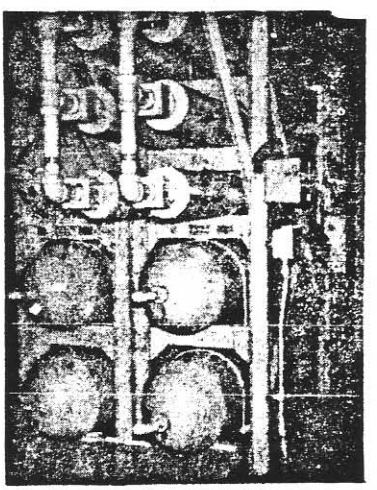
(f) Hydraulic filter, 1 each - operating pressure 10 PSIG, rated flow 20 GPM.

(g) Hydraulic filter, 1 each - operating pressure 3,000 PSIG, rated flow 20 GPM, 10 micron.

(h) Hydraulic filter, 1 each - operating pressure 240 PSIG, rated flow 4.9 GPM, 10 micron.

(i) Cylinders, 5 each - GN2, pressure tank distribution system, operating press. 4,000 PSIG @ 160° deg. F. System includes local control panel, manifold assemblies for work platform, crib lock and door actuators, associated piping, tubing and controls.
Approx. Wt: 50,000 lbs.
Tag Nr. 1-A-118
Location - Level 2, Silo.





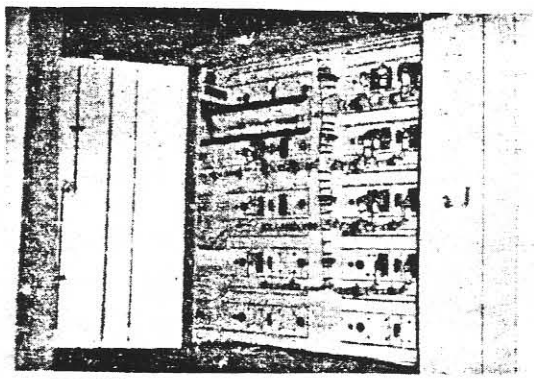
Hydraulic Pumping Unit System 1. a (2)

(3) 1 each - Control Monitor Group

A unit designed with 14 system control and responder groups which initiate and sequence the various functions required to launch a missile. The control monitor group consists of four electrical equipment racks containing chassis assemblies complete with wiring. Power Requirements: 117.5 V, AC, 400 cyc. for relay logic units, 28 V, DC for responder. Cabinet and racks constructed of aluminum.
Approx. Dimensions: 78x100x35 IN.
Approx. Wt: 7,000 lbs.
Tag Nr. 1-A-29
Location - Level 3, Silo.

(4) 1 each - Alignment Group, Prism Azimuth Reference, Upper and Lower Collimator Sight Tube Assemblies.

An electro-optical instrument used to establish an accurate reference line to an inertial guidance sensing platform. Mounted on a steel plate which acts as a level mount for the Collimator. The Collimator accessory group includes a structure, enclosure, and the support for the upper and lower Collimator sight tube assemblies. The structure provides support for the Collimator sight tubes which provide an unimpaired optical line-of-sight to a sensing platform. The Prism, Azimuth Reference is used as a true bearing reference for the Alignment Group Sensing Platforms. A pedestal supports a Poro Prism so that a light beam entering will return parallel to the incident beam and in the same plane.
Approx. Wt: 6,000 lbs.
Tag Nrs. 1-A-25, 1-A-27, 1-A-28 and 1-A-54
Location - Level 7, Silo.



Control Monitor Group 1. a (3)

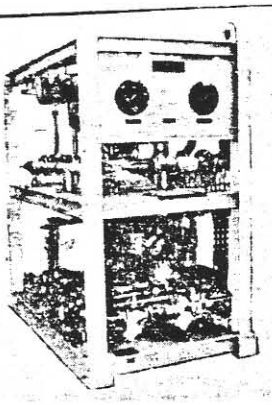
SEE PAGE 58

REGARDING PREPARATION OF

ENVELOPE FOR MAILING BID.

(5) 1 each - Liquid Nitrogen Prefabricated Assembly

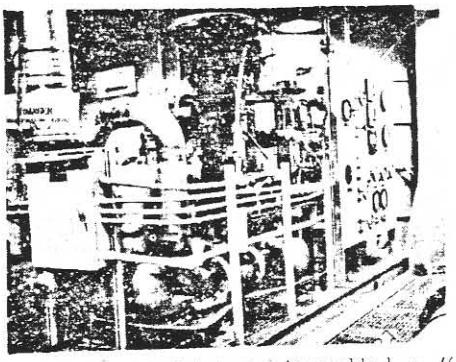
A liquid nitrogen transfer sub-system and instrument and control air system. Assembled on a welded steel skid. Components consist of high pressure stainless steel valves, fittings and piping including bronze body solenoid and relief valves and are mounted on diamond point stainless steel plate flooring. Approx. Dimensions: 4x8x7 FT.
Approx. Wt: 2,000 lbs.
Tag Nr. 1-A-1
Location - Level 7, Silo.



Liquid Nitrogen Prefabricated Assembly 1. a (5)

(6) 1 each - Pressurization Prefabricated Assembly

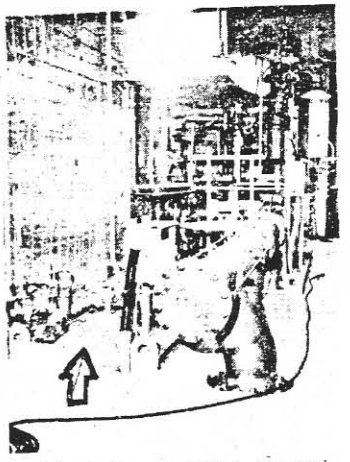
Pressurization prefab filters and controls flow of gaseous nitrogen that furnishes pressure in liquid oxygen storage tanks. Assembled on a welded steel skid. Components consist of high pressure stainless steel valves, piping and fittings, including bronze body valves, control panel, liquid level indicators, pressure gages and switches, fittings and electrical connections and are mounted on diamond point stainless steel plate flooring. Approx. Dim: 14x6x7 FT.
Approx. Wt: 18,000 lbs.
Tag Nr. 1-A-2
Location - Level 7, Silo.



Pressurization Prefabricated Assembly 1. a. (6)

(7) 1 each - Liquid Oxygen Fill & Control Prefabricated Assembly

The liquid oxygen fill pneumatically and electrically controls the fill and drain of liquid oxygen storage tanks. The control prefab filters and controls the flow of liquid oxygen for loading and unloading of the missile. Assembled on a welded steel skid. Components consist of high pressure stainless steel piping, fittings, bronze body solenoid and safety pressure valves and are mounted on diamond point stainless steel plate flooring. Approx. Dim: 4x6x8 FT.
Approx. Wt: 8,000 lbs.
Tag Nrs. 1-A-3 & 1-A-4
Location - Level 7, Silo.



Liquid Oxygen Fill & Control Prefabricated Assembly 1. a. (7)

(14) Continued:

Motor data: Worthington; Type PB, Frame 256U, 15 HP, 480 V, 3 ph., 60 cyc., 3,520 RPM.
Tank data: Eaton Metal Products, fuel leveling tank, capacity: 630 gallons, max. pressure 120 PSI @ 100° deg. F. Shell thickness: 0.1875 IN. Head thickness 0.227 IN., welded dished heads 48x74 3/4 IN. O/A length. Approx. Dim: 8x6.5x6 FT.
Approx. Wt: 3,200 lbs.
Tag Nr. 1-A-16
Location - Level 8, Silo

(15) 1 each - Pressure Control System

The pressure system control maintains full - or increases by the amount lacking of full - pressures in fuel and liquid oxygen tanks by controlling the flow of helium from a ground source to the tanks. Solenoid valves in the system vary the helium flow. Enclosed in a steel balanced frame and fully assembled are; pneumatically controlled diaphragm valves, check valves, filter, pneumatic tanks, pressure controls and regulators, and safety relief valves manufactured from stainless steel for high pressure service. Approx. Dim: 9x6x4 FT.
Approx. Wt: 5,504 lbs.
Tag Nr. 1-A-77
Location - Level 8, Silo.

(16) 1 each - Pneumatic Manifold Regulator System

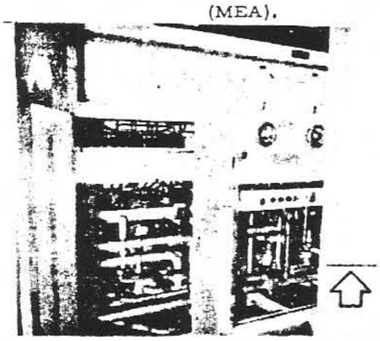
A system designed to provide remote semi-automatic and manual control of the flow of gases to the helium, nitrogen and air systems from ground storage vessels. A skid mounted unit, enclosed in a paneled steel cabinet containing high pressure stainless steel gages, controllers, relief valves, switches and regulators. Operating requirements: 440 V, 3 ph., 60 cyc., power source. Operating pressures: Inlet, 6,000 PSIG helium, max. 4,000 PSIG nitrogen.
Approx. Dim: 6x6x8 FT.
Approx. Wt: 4,900 lbs.
Tag Nr. 1-A-78
Location - Level 8, Silo

(17) 1 each - Suspension System

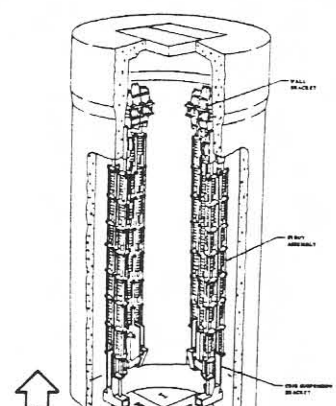
System supports the structural steel crib, crib mounted equipment, launching platform, and missile. Suspended from four separate wall brackets each holding two (2) separate crib suspension shock struts. Steel construction. Approx. Dim: 912 IN.
Approx. Wt: 197,000 lbs.
Tag Nr. 1-A-34
Location - Silo.

(18) 1 each - Platform, Missile Launcher

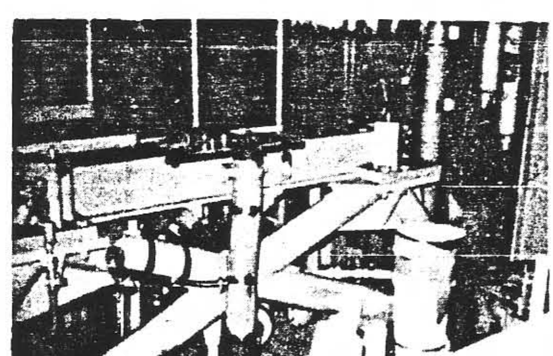
A welded and bolted steel structure with four (4) main levels enclosed within an insulated vertical shaftway. Connected to this structure is servicing equipment consisting of piping from transfer fuel and gas lines, and electric power cable lines. Approx. Dim: 18.3x17x45.3 FT.
Approx. Wt: 270,000 lbs.
Tag Nr. 1-A-35
Location - Missile Enclosure Area (MEA).



Pressure Control System 1. a (15)



Suspension System 1. a (17)



Platform, Missile Launcher 1. a (18)

(19) 1 Set - Rail Guides, Counterweight, Steel

Consists of two (2) guide rails to prevent horizontal movement of counterweights. Each guide rail is constructed of four (4) Sections connected by splice angles and screws. Each Section of guide rail consists of V-shaped members welded to plates to form a triangular section. Attachment brackets are bolted and welded to the rail to mate with support brackets mounted on the crib structure at each level 2, thru 8. Approx. Dim: 137 FT. long.
Approx. Wt: 25,000 lbs.
Tag Nr. 1-A-43
Location - Silo; Quads 1 & 4.

(20) 1 each - Tank, Fuel, Catchment (Underground)

Mfgr. By or for Stearns Rogers; capacity: 15,000 gallons. A plastic-lined steel tank with dished heads.
Approx. Dim: 9x35 ft.
Approx. Wt: 13,000 lbs.

Tag Nr. 1-A-17
Location - Buried Underground approx. 4 FT. Below the paved Surface, approx. 80 FT. East of the line dividing Quadrant 1 & 4 of the Silo.

(21) 1 each - Tank, Storage, Liquid Oxygen, Vacuum Type

Mfgr. Chicago Bridge & Iron; capacity: 23,000 gallons, 175 PSI, stainless steel inner tank, welded steel outer tank with 10 IN. stainless steel flanged pipe to inner tank. 3 IN. vacuum connections to outer tank, space between tanks filled with perlite, equipped with filter to prevent perlite from entering vacuum system. Approx. Dim: 144 IN. Dia., 542 IN. high.
Approx. Wt: 101,000 lbs.
Tag Nr. 1-A-11
Location - Level 8, Silo.

b. DESIGNATED REAL PROPERTY INSTALLED EQUIPMENT (RPIE).

(1) 1 each - Cooling Tower, Water

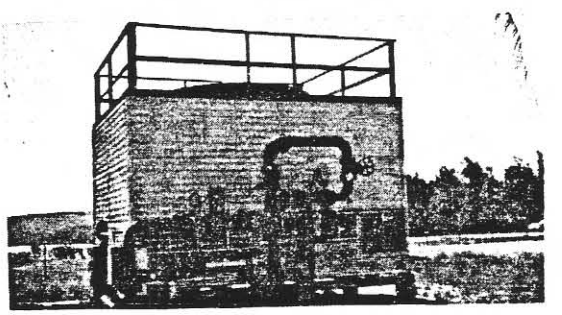
620 GPM, 18° deg. temperature difference, wooden type construction with corrugated asbestos type siding, with electric driven aluminum 6-bladed fan which is approx. 108 IN. in dia., with immersion heaters and assorted electric switch and junction boxes plus associated plumbing and valves.
1 each - Fan data: 15 HP, 220/440 V, 60 cyc., 20 amps, 3 ph., 1,800 RPM, U. S. Electrical Motors.
4 each - Immersion heater date: 480 V, 2,500 Watts, calrod heater, General Electric, catalog 2D412.
Approx. Dim: 14x16x10 FT.
Approx. Wt: 19,400 lbs.
Tag Nr. 1-R-60, CAP Area.

(2) 1 each - Transformer, Air-Cooled

Mfgr. Marcus Transformer Co., Inc.; Class AA, Dry type, Type TDS 75 KVA, 480-208Y/120 V, 3 ph., 60 cyc.
Approx. Wt: 855 lbs.
Tag Nr. 1-R-165
Location - Outside Quonset Hut.

(3) 3 each - Hoists, Chain

Various Manufactures and Models, spur gear driven, chain hoist, consisting of:
1 each - 1/2 Ton capacity, 10 FT. lift.
1 each - 1 Ton capacity, 10 FT. lift.
1 each - 1 1/2 Ton capacity, 25 FT. lift.
Tag Nrs. 1-R-178, No Tag Nr. & 1-R-180
Location - LCC Stairway & Level 6, Silo.



(13) 3 each - Tank, Steel

Various types, sizes, and weights as follows:

2 each - Water, 30 gallons, capacity: 125 PSI, size 36x16 IN., Wt: 300 LB. ea.
1 each - Hydropneumatic, 350 gallons, capacity: 125 PSIG, size 84x36 IN. Wt: 1,250 LB.
Tag Nrs. 1-R-106, 106A & 1-R-108
Location - Level 1 & 4, Silo.

(14) 1 each - Pump, Water, Single Suction

Mfgr. Dean Hill; Pump data: 1" suction 1" discharge 70' TDH 50 GPM, 1750 RPM. Westinghouse, Model ABDP, Frame 213, 5 HP, 220/440 V, 3 ph., 60 cyc., 3,490 RPM. Approx. Dim: 44x21x20 IN.
Approx. Wt: 397 lbs.
Tag Nr. 1-R-133
Location - Level 4, Silo.

(15) 1 each - Pump, Water, Single Suction

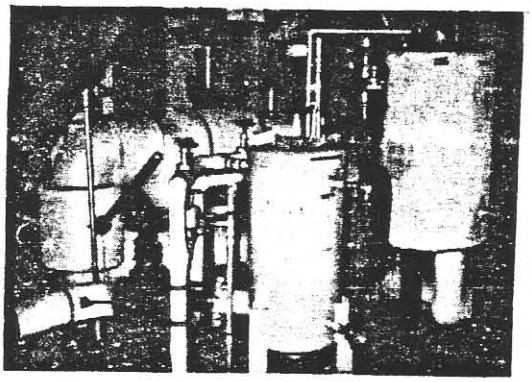
Mfgr. Dean Hill; Pump data: 2 IN. suction, 1 1/2 IN. discharge, 70 FT. TDH, 50 GPM, 1,750 RPM. Motor data: Westinghouse, Model ABDP, Frame 184, 2 HP, 220/440 V, 3 ph., 60 cyc., 1,735 RPM. Approx. Dim: 44x21x22 IN.
Approx. Wt: 379 lbs.
Tag Nr. 1-R-134
Location - Level 4, Silo.

(16) 1 each - Boiler, Electric, Water

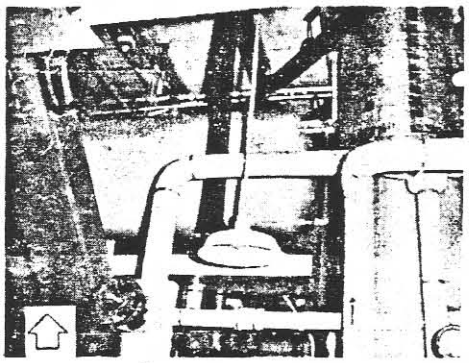
Mfgr. Precision Parts Corp.; Model P, 720,000 BTU/HR, 21/10 KW Heaters, 480 V, 3 ph., 60 cyc., 125 PSIG WP. Approx. Dim: 72x42x42 IN.
Approx. Wt: 3,000 lbs.
Tag Nr. 1-R-88
Location - Level 6, Silo.

(17) 1 each - Air Wash and Dust Collector System

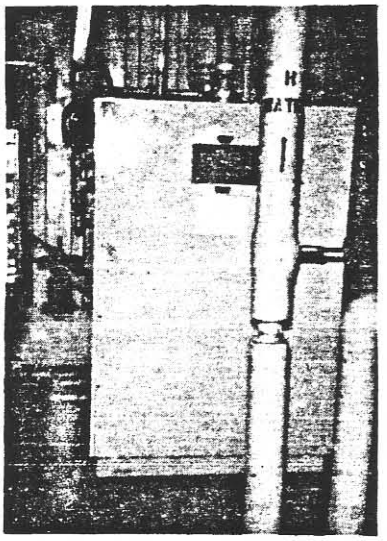
Mfgr. Joy Mfg. Co.; cylindrical shaped, wet type, for installation within an existing duct system, with two (2) electric driven fans and fan coil unit with heating/cooling coils, provides 17,500 CFM, velocity 2,790 FT/MIN. Motor data: two (2) ea. Westinghouse; Frame 254U, Type ABDP, 20 HP, 220/440 V, AC, 3 ph., 60 cyc., 3,475 RPM. Approx. Dim: 18.5x3.5x6.5 FT.
Approx. Wt: 2,650 lbs.
Tag Nr. 1-R-1
Location - Level 1, Silo.



Tank Steel l. b. (13)



Tank, Steel l. b. (13)



Boiler, Electric, Water l. b. (16)

(18) 1 each - Fan, Supply

Mfgr. Bertram; panel venturi fan, propeller type, 4-blade, 32 IN., capacity: 10,000 CFM @ 1/8 IN. static pressure. Motor data: 1 HP, 220/440 V, 3 ph., 60 cyc., 1,750 RPM. Approx. Dim: 36x36x14 IN.
Approx. Wt: 250 lbs.
Tag Nr. 1-R-7
Location - Level 8, Silo.

(19) 1 each - Fan, Purge

Mfgr. Wing; capacity: 13,000 CFM @ 2.25 IN. static pressure. Motor data: U.S. Electrical, Type E, Frame 254U, 7 1/2 HP, 240/480 V, 3 ph., 60 cyc., 1,800 RPM, belt drive. Approx. Dim: 34x33x11 IN.
Approx. Wt: 660 lbs.
Tag Nr. 1-R-8
Location Silo Sump.

(20) 1 each - Fan, Purge

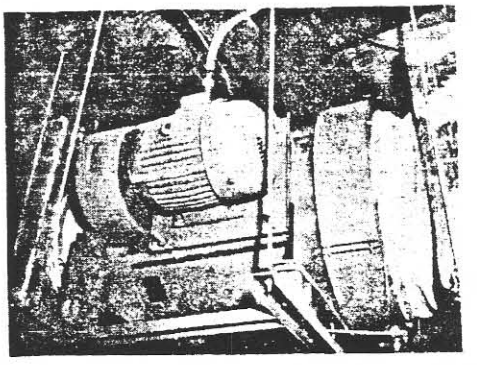
Mfgr. Wing; capacity: 3,000 CFM @ 2.25 IN. static pressure. Motor data: U.S. Electrical, Frame 184, explosion proof, 2 HP, 240/480 V, 3 ph., 60 cyc., 1,800 RPM, belt drive. Approx. Dim: 31x25x10 IN.
Approx. Wt: 355 lbs.
Tag Nr. 1-R-9
Location Silo Sump.

(21) 1 each - Fan, Supply

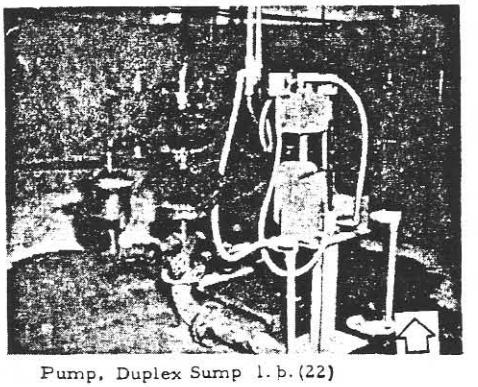
Mfgr. Clarage; Model O, capacity: 1,000 CFM. Motor data: Reliance, Design B, induction, Frame 213, 5 HP, 480 V, 3 ph., 60 cyc., 3,520 RPM, drip-proof. Approx. Dim: 29x23x30 IN.
Approx. Wt: 250 lbs.
Tag Nr. 1-R-10
Location - Level 8, Silo

(22) 2 each - Pump, Duplex Sump

Mfgr. Worthington; Model 6L6, multi-turbine type. Pump data: 100 GPM with 200 FT. Head. Motor data: Franklin Electric; vertical submersible, Model No. 3P-1036B9E, Nema VII, explosion proof, 7 1/2 HP, 480 V, 3 ph., 60 cyc., 3,450 RPM.
Approx. Dim: 8x84x144 IN.
Approx. Wt: 750 lbs.
Tag Nrs. 1-R-143, 143A
Location - Silo Sump.



Fan, Purge l. b. (20)



Pump, Duplex Sump l. b. (22)

(23) 1 each - Tank, Storage, Water (Underground)

Mfgr. By or for Alpha Engineering Co., capacity: 18,000 gallons, constructed of HRS ASTM 283 B Copper-bearing steel, 5/8 IN. plate, hydrostatic test to 10 PSIG cold water. Approx. Dim: 8x47 FT. Approx. Wt: 35,700 lbs.

Tag Nr. 1-R-122
Location - Buried Underground, North of Silo CAP and West of Black-top Runway.

(24) 3 each - Tank, Storage, Water (Underground)

Mfgr. By or for Alpha Engineering Co.; capacity: 25,000 gallons, constructed of HRS ASTM 283 B Copper-bearing steel, 7/16 IN. plate, hydrostatic test to 10 PSIG cold water. Approx. Dim: 10x46 FT. Approx. Wt: 28,000 lbs.

Tag Nr. 1-R-124 124A, 124B
Location - Buried Underground, North of Silo CAP and West of Black-top Runway.

(25) 1 each - Tank, Storage, Diesel Fuel (Underground)

Mfgr. By or for Alpha Engineering Co.; capacity: 15,300 gallons, constructed of carbon steel, Heads 5/16 IN. plate flat, Shell 5/16 IN. plate, test pressure 5 PSIG. Approx. Dim: 8x41 FT.
Approx. Wt: 14,800 lbs.

Tag Nr. 1-R-119
Location - Buried Underground, East of Silo CAP near edge.

(26) 1 each - Blower and Fan House

Sheet metal plenum with lowered ampers, motor operated, Plenum Dim: 104x115x132 IN. Blower data: Mfgr. Clarage Fan Co.; Type NH, size 66. Motor data: Mfgr. Reliance; 20 HP, 480 V, AC, 3 ph., 60 cyc., 1,760 RPM, Frame 286U.
Approx. Wt: 1,860 lbs.
Approx. Dim. 72x70x63In.
Tag Nr. 1-R-6
Location: Level 2, Silo

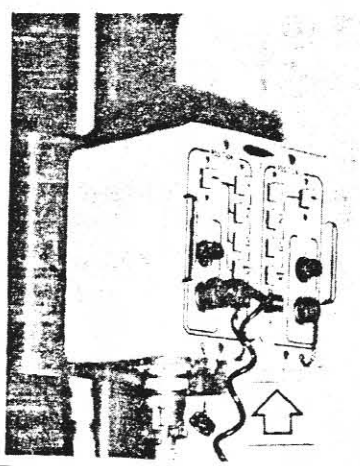
c. DESIGNATED COMMUNICATIONS ELECTRONICS, AND METEOROLOGICAL EQUIPMENT (CEM).

(1) 1 each - Cabinet, Direct Line, Electrical Equipment

Mfgr. ITT Kellogg; Telephone system equipped with associated components of relay units and microphone accessories. Approx. Dim: 24x24x84 IN.
Approx. Wt: 600 lbs.
Tag Nr. 1-C-41
Location - LCC-2.

(2) 32 each - Communication Panel Assembly

Mfgr. Communications Division of ITT; Number 554331 panel. Incorporates a number 554418 panel assembly in an almost square weatherproof case. Assembly serves as a terminating instrument for four (4), four-wire circuits which are accessible to either of two operators and enable either of the two operators to operate four (4) conference networks. Audio gain controls and headset receptacles included. Audio level to headset receiver is adjustable by means of a 600 OHM "T" pad control.
Approx. Dim: 9x9x9 IN.
Approx. Wt: 15 lbs. ea.
Tag Nr. 1-C-65
Location - All Levels, Silo, CAP Area.



Communication Panel Assembly 1.c.(2)

d. MISCELLANEOUS PROPERTY AND EQUIPMENT

Miscellaneous Property and Equipment consisting of various quantities of the following items:

(1) Crib Structure

A bolted and riveted steel structure constructed with standard and wide flange sections of I-beams, H-beams, etc., to form an octagonal structure divided into eight levels. The crib structure is held in suspension by mechanical high compression springs (shock struts) from wall brackets mounted 90° degrees apart attached to the concrete silo wall. It is estimated the crib structure may weigh approximately 300 gross tons.
No Tag Number
Location - Silo and LCC.

(2) 1 each - Compressor, Air, with Tank

Mfgr. Johnson Service Co. "The Johnson System Air Conditioning Control," Model A-4.
Tank data: Working pressure 160 pounds, 120 HDS.
Compressor data: Size 2 1/2 x 2 1/2
Motor data: Doerr Electric Corp., 1/2 HP, 115/230 V, AC, 60 cyc., 8.6/4.3 amps., 1725 RPM. Approx. Dim: 4x2x3 ft.
Approx. Wt: 125 lbs.
No Tag Number
Location - Level 2, Silo.

(3) Miscellaneous Electrical Outlets which are explosion and water proof; junction boxes; stainless steel and steel vent pipes; blast detectors and spotlights mounted on pipe;
No Tag Numbers.
Location - CAP Area.

(4) Miscellaneous Electrical Outlets; main electrical boxes; light fixtures; junction boxes; panels, circuit breaker; and conduit pipe and wiring.
No Tag Number.
Location - Silo and LCC.

(5) Fluorescent light fixtures, spring mounted singularly and inter-connected.
No Tag Number.
Location - Level 1 & 2 LCC.

(6) Spiral Stairway, Steel
Approx. 24" wide, center post to handrail.
Approx. 92.5' length through levels 1 to 7.
Raised figure tread steps, Steel.
No Tag Number.
Location - Level 1 thru 7 Silo.

(7) Personnel Support Equipment:

(a) 1 each - Hot Water Heater, electric, 50 gallons.

(b) 1 each - Service Sink.

(c) 1 each - Shower Unit, metal.

(d) 2 each - Wash bowls.

(e) 1 each - Urinal.

(f) 2 each - Commodes and Tanks.

(g) 1 each - Kitchen sink with electric disposal unit and cabinets.
No Tag Number
Location - Level 1, LCC.

(8) Guard Rail, steel pipe constructed, used as a safety measure and encircles all levels.
No Tag Number.
Location - LCC and Silo.

(9) Copper Tubing, various lengths and sizes, principally used for instrument air system lines.
No Tag Number.
Location - LCC and Silo.

(10) Copper Wire, bare, approx. 5/8" O.D., 6 strands, approx. 750 feet, various lengths, with and without copper connectors, used for grounding property and equipment.
No Tag Number.
Location - LCC, Silo and Tunnel.

(11) Floor Grating and Plating, steel, consists primarily of 1 1/2" grating tread; and raised figure tread steel plate.
No Tag Number.
Location - All Levels, Silo.

(12) 4 each - Cylinder, Hydraulic, Ice Breaker (Breakaway Cylinder)

Mfgr. Convair Astronautics Division of General Dynamics; P/N 27-87180-1, Length 16.08 IN. (Retracted), Width 8 IN., Bore 5.1 IN., Stroke 4 IN., max. Rod Dia. 4 IN., Operating pressure - 3,000 PSIG. Proof 4,500 PSIG. Wt: 100 lbs. (each).

NOTE: In addition to the property listed above, the Contractor can expect to generate for himself, as a result of dismantling and removal operations, the following property:

a. Approx. 18,000 lbs., insulated copper cable and wire (some in flexible conduit).

b. Approx. 25,000 lbs., stainless steel pipe with flanged couplings, nuts, bolts.

c. Approx. 150 each valves, iron, steel, and brass of the following sizes and types:

1", 2", 3", 4", 6" Motor controlled
2", 3", 4", 6" Manual gate
3", 4" Plug cock
and some miscellaneous types.

d. Approx. 11,500 lbs., wire rope, 1 1/2" dia., 6x19, 300 FT. Lengths. Preformed, regular lay, with attached cable sockets on each end.

e. THE FOLLOWING ITEMS OF PROPERTY AND EQUIPMENT AT THE SITE ARE DESIGNATED AND SHALL REMAIN GOVERNMENT PROPERTY TO BE REMOVED FOR THE GOVERNMENT BY THE PURCHASER. THEY ARE NOT INCLUDED IN THIS SALE:

Designated Aerospace Ground Equipment (AGE).

(1) 1 each - Power Supply Distribution
Tag Nr. 1-A-47
Location - Level 3 Silo.

(2) 2 each - Vessel, High Pressure, Gaseous, Nitrogen
Tag Nrs. 1-A-6, 6A
Location - Level 8 Silo.

(3) 1 each - Vessel, High Pressure, Gaseous Nitrogen
Tag Nr. 1-A-7
Location - Level 8 Silo.

) 1 each - Vessel, High Pressure, Helium
Tag Nr. 1-A-8
Location - Level 8 Silo.

(5) 2 each - Vessel, High Pressure, Helium
Tag Nrs. 1-A-9, 9A
Location - Level 8 Silo.

(6) 1 each - Tank, Storage, Liquid Nitrogen
Tag Nr. 1-A-10
Location - Level 8 Silo.

(7) 1 Set - Counterweight, Launch Platform
Tag Nr. 1-A-42
Location - Silo Sump.

Designated Real Property Installed Equipment (RPIE).

(8) 1 each - Fan, Exhaust
Tag Nr. 1-R-15
Location - LCC 1.

(9) 1 each - Fan, Coil
Tag Nr. 1-R-16
Location - LCC 2.

(10) 1 each - Control Panel, Remote
Tag Nr. 1-R-28
Location - LCC 2.

(11) 1 each - Pump, Water
Tag Nr. 1-R-132
Location - Level 1 Silo.

(12) 1 each - Tank, Water
Tag Nr. 1-R-105
Location - Level 1 Silo.

(13) 1 each - Fan, Coil, Unit
Tag Nr. 1-R-4
Location - Level 2 Silo.

(14) 1 each - Control Cabinet, Fan Coil Unit
Tag Nr. 1-R-5
Location - Level 3 Silo.

(15) 2 each - Water Chiller Package
Tag Nrs. 1-R-21, 21A
Location - Level 4 Silo.

(16) 2 each - Pump, Water
Tag Nrs. 1-R-136, 136A
Location - Level 4 Silo.

(17) 2 each - Pump, Water
Tag Nrs. 1-R-139, 139A
Location - Level 4 Silo.

(18) 2 each - Pump, Water
Tag Nrs. 1-R-135, 135A
Location - Level 4 Silo.

(19) 1 each - Tank, Water
Tag Nr. 1-R-110
Location - Level 4 Silo.

(20) 1 each - Control Center, Switch Gear
Tag Nr. 1-R-27
Location - Level 5 Silo.

(21) 2 each - Generator, Diesel Engine
Tag Nrs. 1-R-35, 35A
Location - Level 5 & 6 Silo.

(22) 1 each - Tank, Fuel Oil
Tag Nr. 1-R-102
Location - Level 5 Silo.

(23) 2 each - Tank, Oil
Tag Nrs. 1-R-107, 107A
Location - Level 5 Silo.

(24) 2 each - Silencer, Heat Recovery
Tag Nrs. 1-R-50, 50A
Location - Level 5 & 6 Silo.

(25) 1 each - Charger, Battery
Tag Nr. 1-R-29
Location - Level 6 Silo.

(26) 1 each - Tank, Air
Tag Nr. 1-R-103
Location - Level 6 Silo.

(27) 1 each - Pump, Oil, Lube
Tag Nr. 1-R-142
Location - Level 6 Silo.

(28) 1 each - Fan, Supply
Tag Nr. 1-R-3
Location - Level 7 Silo.

(29) 1 each - Control Panel, Remote
Tag Nr. 1-R-22
Location - LCC 2.

(30) 1 each - Panel, Circuit Breaker
Tag Nr. 1-R-145
Location - LCC 2.

NOTE: The Purchaser or his authorized representative accompanied by a representative of the Sales Contracting Officer will be required to determine that the items of property and equipment that remain Government property as listed above are at the Site and will sign a receipt for same prior to commencing work at the Site. Bidder's attention is directed to Article AI, titled STRIPPING OF "SAVE LIST ITEMS" regarding stripping Government property from the Site and to Article T, titled PERFORMANCE BOND requiring Purchaser to furnish a Performance Bond.

NOTE: The following property at the Site is not included in this sale and will be removed by the Government prior to the Purchaser commencing work at the Site:

All Escape Packs
3 each - Safety Belts
3 each - Tail Lines
3 each - 50 ft. Nylon Ropes
3 each - Flashlights
1 each - Litter, Rigid
6 each - Portable Telephones
1 each - Mobile Radio Unit or Commercial Telephone
All Fire Extinguishers
1 each - K Bottle with Hose.
1 each - First Aid Kit.

THE FOLLOWING ITEMS OF PROPERTY AND EQUIPMENT AT THE SITE ARE DESIGNATED OR PART OF AND SHALL REMAIN GOVERNMENT PROPERTY AT THE SITE. THEY ARE NOT INCLUDED IN THIS SALE:

(1) 1 each - Fence, Barbed Wire and Posts, Outer Boundary.

(2) 1 each - Fence, Chain Link and Posts Plus Gate, CAP Area Enclosure.

(3) 3 each - Street Lights and Poles, CAP Area.

(4) All Quonset Buildings Plus Installed Lighting Fixtures and Lamps, and Interior Structures and Components and Heating Plus Exterior Fuel Tanks, CAP Area.

(5) All Site Designation Signs Ground Level.

(6) Well House, Building and All Well Equipment.

NOTE: The Purchaser or his authorized representative accompanied by a representative of the Sales Contracting Officer will be required to determine that the items of property and equipment that remain Government property as listed above are at the Site and will sign a receipt for same prior to commencing work at the Site.

Total Cost: $5,924,081

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REGARDING PREPARATION OF

ENVELOPE FOR MAILING BID.