

SECTION VIII

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COMMUNICATION REQUIREMENTS

FOR GROUP I, TEST PLAN 5

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### A. PURPOSE

The purpose of the ADL communication requirements is to provide an adequate communication system for pretest checkout, test operation, and post-test procedures.

### B. SYSTEM REQUIREMENTS

The following equipment will cover the communication requirements.

- (1) Eighteen head sets and two extension cords, 100 ft. long.
- (2) A minimum of two communication channels, one with a capability of handling a 16-party conference.
- (3) Wall sockets to be located in areas designated in Figure VIII-b. The sockets should have the following capability:
  - (a) Receive the jack from any set.
  - (b) Receive an adapter, permitting the connection of two jacks and, hence, simultaneous use of two head sets.
  - (c) It should be possible to tie the socket locally to either of two (or more) channels. If this is not possible, then certain areas designated in Table VIII-a and Figure VIII-b will require more than one socket. Thus, where two sockets are called for, two simultaneous conversations can be carried on by means of the two channels. Two individuals can also participate in one conversation, on one channel, through one socket with the help of an adapter.
- (4) Twelve socket adapters will be used as described in (3) above.
- (5) One tape recorder which can be plugged into any socket.
- (6) One loud-speaker in the vicinity of the PLS Test Control Panel in the Control Center.

- (7) A limited number of dial phones should be available within the area. (See Table VIII-a.)

#### C. CONFERENCE HOOKUPS

Figure VIII-a, which is a schematic arrangement of the communication system, shows one conference hookup, estimated to service the largest number of head sets that may be required.

#### D. ADDITIONAL COMMENTS

(1) Head sets should have some form of a switch, requiring the microphone to be turned off for listening. This will cut out background noise for conference calls.

(2) Spares have not been included in the above requirements.

(3) The communication system target date should be 1 January 1960. The latest date the system should be available is 1 February 1960.

(4) Audio or visual signaling is not necessary except for the dial phones listed above.



TABLE VIII-a

COMMUNICATIONS REQUIREMENTS

<u>Area No.</u>	<u>Location</u>	<u>Minimum No. of Channels to be Available</u>	<u>Minimum No. of Head Sets That can be Tied to One Channel</u>	<u>Dial Telephone Requirements</u>	<u>Applicable Notes</u>
1	Upper level PT (LO <sub>2</sub> )	2	2	--	(1)
2	Upper level PT (fuel)	2	2	--	(1)
3	Inter. level PT (LO <sub>2</sub> )	2	2	X	(1)
4	Inter. level PT (fuel)	2	2	X	(1)
5	Lower level PT (LO <sub>2</sub> )	2	2	--	(1)
6	Lower level PT (fuel)	2	2	--	(1)
7	-63 ft. elev. MS (LO <sub>2</sub> )	1	1	--	--
8	-63 ft. elev. MS (fuel)	1	1	--	--
9	-116 ft. elev. MS (LO <sub>2</sub> )	1	1	--	--
10	-116 ft. elev. MS (fuel)	1	1	--	--
11	-150 ft. elev. MS (LO <sub>2</sub> )	1	1	--	--
12	-150 ft. elev. MS (fuel)	1	1	--	--
13	3rd level E. T.	2	4	X	--
14	3rd level E. T.	1	2	--	(2) (1)
15	PLS Panel C. C.	2	6	X	(3)
16	Instr. C. C.	2	3	--	--
17	5th level E. T.	No Requirement	No Requirement	--	--
18	Ground LO <sub>2</sub> loading	1	1	--	--
19	Ground fuel loading	1	1	--	--

Notes: (1) Adapters can be used to implement this requirement.

(2) If the test instrumentation equipment (pertinent to Test Plan I-5) is moved from this area to the northeast corner of the E. T. 5th level, then the wall socket should also be moved.

(3) These requirements cover test control and include the following personnel: BMD (1); STL (1); ADL: test conductor (1), panel operator (1), test conductor's assistant (or superior) (1); The Martin Co.: the test conductor for Test Plan II-6 (1).

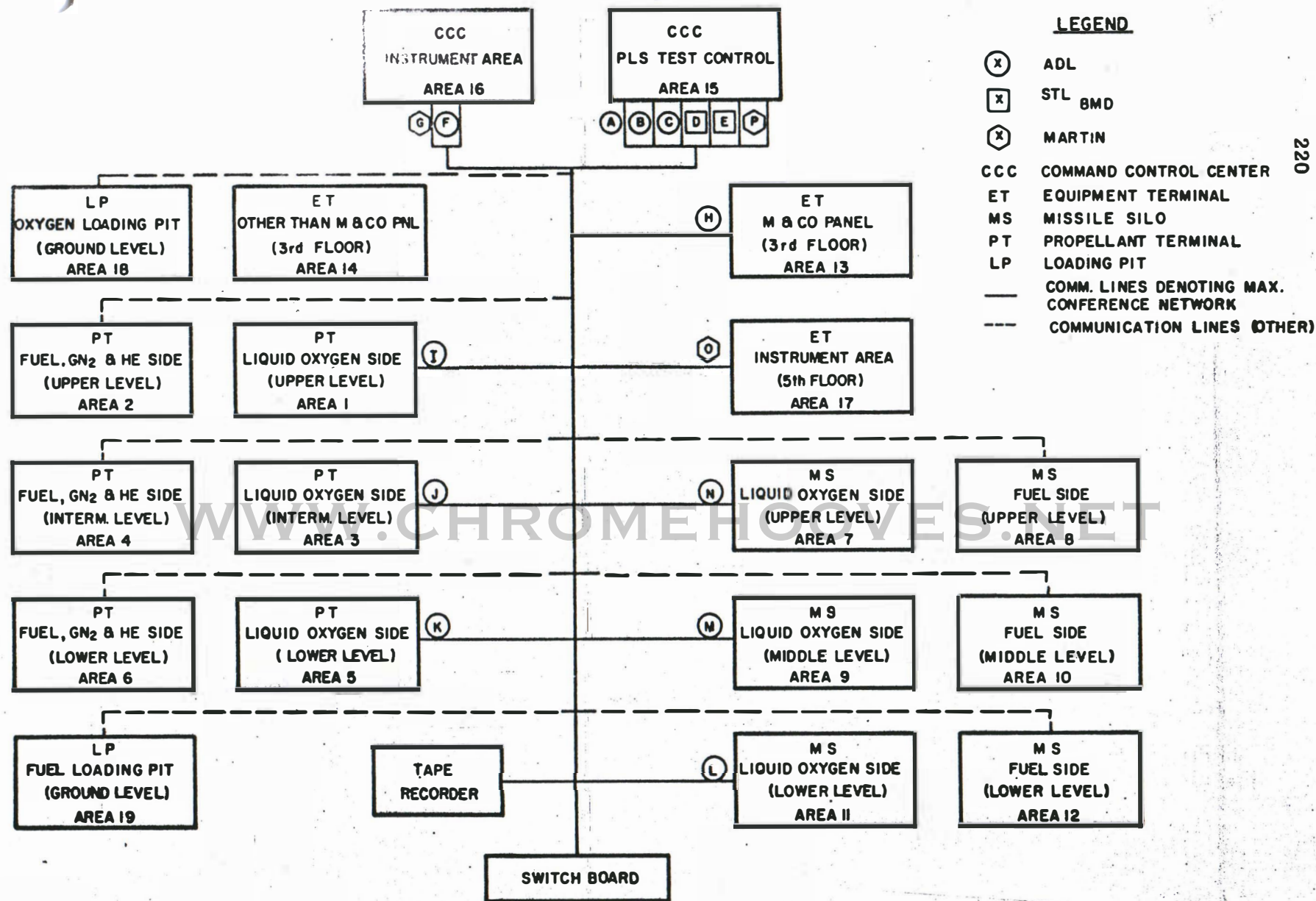
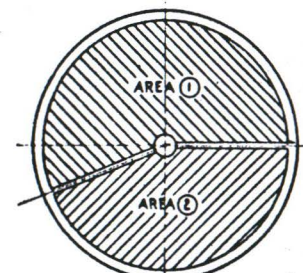
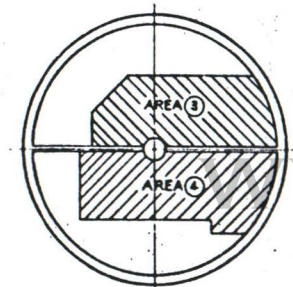


Figure VII-a  
OSTF COMMUNICATIONS REQUIREMENTS  
MAXIMUM SIMULTANEOUS USAGE

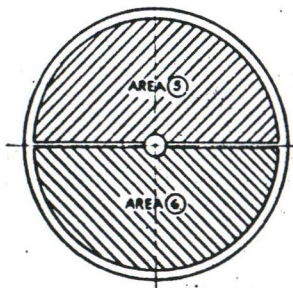




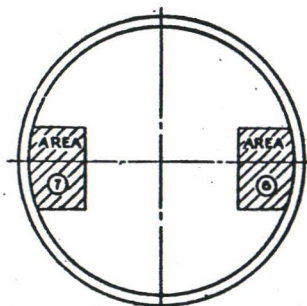
UPPER LEVEL



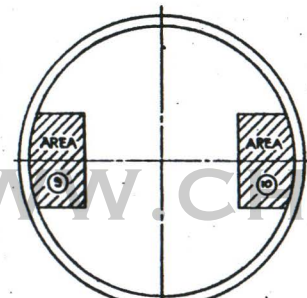
**INTERMEDIATE LEVEL**



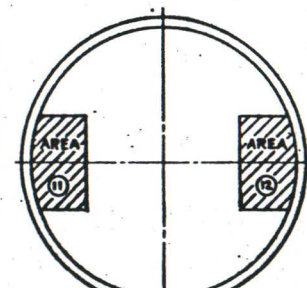
LOWER LEVEL  
PROPELLANT TERMINAL



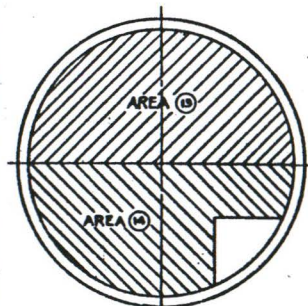
ELEV. - 62'-10"



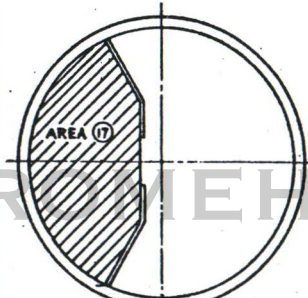
ELEV. - 115-10'



**ELEV. - 149'-8"**  
**MISSILE SILO**



**THIRD LEVEL**



**FIFTH LEVEL  
EQUIPMENT TERMINAL**



**OXYGEN LOADING PT**  
**AT GROUND LEVEL**

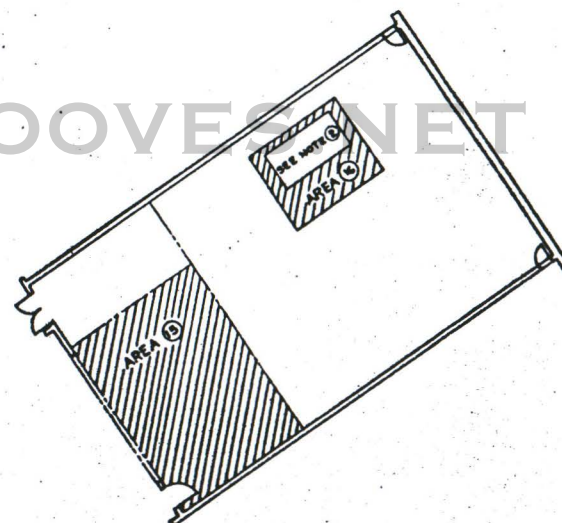


**FUEL LOADING PIT  
AT GROUND LEVEL**



**NOTES:**

1. THE CROSS HATCHED AREA IS THE AREA TO BE COVERED BY A MAN WITH A TELEPHONE REESEL CONNECTED BY A SOFT. CORD TO A TELEPHONE JACK SUITABLY LOCATED ON A WALL OR BEAM OF THE BUILDING OR STRUCTURE.  
2. THE AREA OF THE BUILDING OR WALL AS ABLE TO TALK AT ALL TIMES TO A MAN WITH SIMILAR EQUIPMENT LOCATED IN ANY OF THE OTHER CROSS HATCHED AREAS SHOWN ON THIS DRAWING.
2. AREA "C" IS THE SAME AREA USED BY THE MARTIN CO. TO LOCATE THEIR INSTRUMENT RECORDING EQUIPMENT IN THE CENTRAL CENTER. THIS LOCATION SHOULD BE OBTAINED FROM THE MARTIN CO.

[illegible]

**Figure VIII-b**

## ADL COMMUNICATIONS REQUIREMENTS