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Comm
UNIVERSITY OF CALIFORNIA
LOS ALAMOS, NEW MEXICO

TO : J. E. Reeves, Acting Director, Office of
Test Operations, SFOO
FROM : Test Director, LASL
SUBJECT: REQUIREMENTS FOR VHF-FM RADIO FOR UPSHOT/KNOTHOLE
SYMBOL : J-15188

DATE: 15 December 1952

PUBLICLY RELEASABLE
LANL Classification Group

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JA Brown FJS-16 8/28/91

Attached to this memorandum is a detailed statement of VHF-FM radio requirements for UPSHOT/KNOTHOLE. Following comments apply to the statement:

1. This statement of requirements asks for the assignment of 14 Handie-Talkies, 9 Remote Control Units, 21 Fixed Stations, and 79 Mobile Sets. The request for Fixed Stations does not include the base station facilities at Smoky, Jr. One of the 79 Mobiles and one of the Remotes have already been installed.

2. The Test Director's Office believes that the numbers of VHF-FM radio units now available for assignment to the test organizations at Nevada Proving Grounds, after allowing for presently installed equipment and for required maintenance spares, are approximately:

- Handie-Talkies 40
- Fixed Stations 25 or more
- Mobile Sets. 77

3. Originally, requirements presented to the Test Director were for approximately 100 Mobile Sets. Because some of the persons who requested equipment have been very cooperative about reducing requests, the requirements presented to your office now total only 79 Mobiles.

However, the use of Mobile Radios saves a great deal of time and money during the field operations of many of the projects and support units at Nevada Proving Grounds. Therefore, it is requested that AEC investigate these possibilities:

- a. Borrowing of a small amount of additional mobile VHF-FM equipment from other field offices.
- b. Re-appraisal of the existing Engineering and Construction net at NPG to determine whether or not units can be made available from that net as construction decreases and the experimental program begins. Again, the writer is aware of the value of Mobile Radio as used on the Engineering net, and does not ask that equipment be diverted from this use if any harmful effect would be caused by diversion.

This material contains information affecting the national defense of the United States within the meaning of the espionage laws Title 18, U.S.C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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c. Procurement of a small amount of equipment in the new 400 MC ranges to meet the needs of the test programs.

4. The 16 Mobile and 1 Fixed sets requested for Program 27 should be on only one frequency (simplex operation). A separate memorandum will be written about the communications problem of this particular program.

5. The statement of requirements is based on the assumption that three networks will be available for the test programs, as requested in letter from this office to OTO, dated 28 November 1952, subject, "Request for Establishment of Fifth VHF-FM Radio Net at Nevada Proving Grounds". Combination of Weapons Effects and Weapons Development into one net will be unwieldy because of the numbers of stations involved; it is strongly urged that the fifth net be established.

6. Most of the sets listed in the statement should be installed during March 1953, if present schedules are not changed. A very few sets will be installed between 1 January and 1 March 1953.

7. Changes in requirements may occur. Additions, subtractions, or other revisions will be sent to your office as soon as known.

FOR THE TEST DIRECTOR:

B C Lyon

B. C. Lyon
Plans & Operations
J-3, J-Division, L-3L

ECL:gy

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9-15188

10 December 1952

OFFICE OF THE TEST DIRECTOR

Radio Requirements - VHF - FM
NEVADA PROVING GROUNDS

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<u>NET</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>	<u>MOBILE</u>	<u>FIXED</u>	<u>REMOTE CONTROL</u>	<u>HANDIE-TALKIE</u>
Weapons Effects	DWET - For all Military Effects Programs and projects and DWET staff.		14			
	Director of Military Effects (Officer)	Camp Mercury		1		
	Prog. 3 office	Camp Mercury			1	
	Prog. 7 office	Camp Mercury			1	
	Operations Office	Indian Springs		1		
	Prog. 7 (Transmitter Site)	Indian Springs		1		
	Proj. 5.1 (Operations Van)	Indian Springs		1		
	Proj. 5.1 (Radar Site)	Yucca Lake		1		
	Proj. 1.3 (Radar Site)	Yucca Lake		1		
	Proj. 6.2 (Radar Site)	Yucca Lake		1		
<u>Handie-Talkies</u>	<u>Handie-Talkies</u>					
		DWET Rad-Safe				6 8
<u>Weapons Development</u>	Test Director's Office	CP and Mobiles	2			1
	W. D. Office	CP and Mobiles	2			1
	J-6 Office	Camp Mercury		1		
	J-3	CP and Mobile	1			1
	Graphic Arts	Mobiles and CP Trailer	4	1		
	Sandia Corporation (including Microbarograph, Weapons Assembly, and projects)	Camp Mercury, CI Office, Mobiles, Trailers	9	3		1
	Program 11		4			
	Program 18		2	1		

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<u>NLT</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>	<u>MOBILE</u>	<u>FIXED</u>	<u>REMOTE CONTROL</u>	<u>HANDIE-TALKIE</u>
	Program 14		1			
	Programs 13 and 15	NO REQUIREMENTS	-----			
	Program 12		1			
	Programs 16 and 17	Mobiles and Yucca Lake	6	1		
	Towers	Towers		3		
	Civil Effects Test Group					
	Program Director (Corsbie)		1			
	Programs 23 and 24	NO REQUIREMENTS	-----			
	Program 28		4			
<u>Rad-Safe</u>	Rad-Safe (on-site)	Mobiles and RS Bldg.	10		2	
	Rad-Safe (off-site)	Groom and Lincoln		2		
	Program 27	Off-site	16	1		
<u>Eng. and Constr.</u>	Test Director's Engineering (J-6)		1	1		
	Mil. Eng. and Constr. (Saunders)		1*		1*	
			<u>79</u>	<u>21</u>	<u>9</u>	<u>14</u>

* NLS:

* Installed and in operation before date of this report.

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