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Amex E

Mr. Curry:

Following differences were found:

CJTF SEVEN

LASL

- 6.1 Indirect Bomb Damage Assessment
 - 6.2 Effects of Blast, Gust and Thermal on Aircraft in Flight
 - 12.1 ~~REACT~~ Reaction History
 - 12.2 Telemetered Time Interval
 - 18.4 Air Transmission and Resolution
 - 25.1 Electromagnetic Measurements
- 6.2a Effects of Blast, Gust, and Thermal on AC in Flight (B-36 Aircraft)
 - 6.2b Effects of Blast, Gust, and Thermal on AC in Flight (B-47 Aircraft)
 - 12.1 ~~REACT~~ Reaction History
 - 18.4 Air Transmission

Respectfully,

[Signature]

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~~REACT~~

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Carl Wilson 11/2/83

REVIEWED BY *HP Schmidt 10/16/85*

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HEADQUARTERS, Joint Task Force SEVEN
Washington 25, D. C.
10 November 1953

Annex E to CJTF SEVEN Operation Plan No. 3-53 (Limited Distribution)

SCIENTIFIC TEST PROGRAMS

1. The Commander, TG 7.1 will be responsible for the preparation and conduct of the AEC experimental tests. With the assistance of pertinent Armed Forces agencies, he will prepare for and conduct experimental tests sponsored by the DOD. He will be responsible for the preparation of the reports on the AEC experiments and tests; for arranging for their publication; for their appropriate classification and for distribution as required by the AEC and as coordinated with AFSWP. Responsibility for the preparation and publication of the reports for DOD projects remains with the Chief, AFSWP.
2. The following are predicted yields of the respective CASTLE shots. Figures in parenthesis depict the anticipated lower and upper limits. See Annex A for additional details of the shot schedule.

<u>SHOT AND CODE</u>	<u>DATE</u>	<u>MODEL AND MEGATON YIELD</u>
#1 BRAVO	B Day 1 March	
#2 UNION	U Day 11 March	
#3 YANKEE	Y Day 22 March	
#4 ECHO	E Day 29 March	
#5 NECTAR	N Day 5 April	
#6 ROMEO	R Day 15 April	
#7 KOON	K Day 22 April	

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3. The following scientific test programs and projects will be conducted:

<u>PROJECT NO.</u>	<u>TITLE</u>	<u>SPONSORING AGENCY</u>
	PROGRAM 1 - BLAST AND SHOCK MEASUREMENTS	DOD
1.1	Blast Measurements by Photography <ol style="list-style-type: none"> a. Free Air Pressure (Rocket Trails) b. Precursor Phenomena (Rocket Trails) c. Base Surge Phenomena d. Peak Pressure by Aerial Photography 	
1.2	P vs T on the Surface <ol style="list-style-type: none"> a. Pressures less than 40 psi b. Pressures greater than 40 psi 	

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SFD Amly E
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Scientific Test Programs
CJTF SEVEN No. 3-53

<u>PROJECT NO.</u>	<u>TITLE</u>	<u>SPONSORING AGENCY</u>
1.3	Shock Winds and Afterwinds	
1.4	Underwater P vs T	
1.5	Acoustic Pressure Signals in Water (SOFAR)	
1.6	Water Wave Studies	
1.7	Close-in Ground Accelerations	
1.8	Dynamic Pressure Investigations	
	PROGRAM 2 - NUCLEAR EFFECTS	DOD
2.1	Gamma Film Dosage Measurements	
2.2	Gamma Dose Rate vs Time	
2.3	Neutron Flux and Spectrum Measurements	
2.5a	Fall-out Distribution Studies	
2.5b	Fall-out Distribution Studies	
2.6a	RC Analysis of Ground Contamination	
2.6b	RC Analysis of Ground Contamination	
	PROGRAM 3 - STRUCTURES	DOD
3.1	Loading of Structures	
3.2	Crater Survey and Evaluation	
3.3	Tree Stand Studies	
3.4	<i>Neutralization of Mine Fields.</i>	
	PROGRAM 6 - TEST OF SERVICE EQUIPMENT AND OPERATION	DOD
6.1	Indirect Bomb Damage Assessment	
6.2	Effects of Blast, Gust and Thermal on Aircraft in Flight	
6.4	Proof Testing of AW Countermeasures	
6.5	Decontamination and Protection	
6.6	Effects of Ionosphere	
	PROGRAM 7 - LONG RANGE DETECTION	DOD
7.1	Electromagnetic Radiation Calibration	
7.2	Detection of Airborne Low Frequency Sound from Atomic Explosions	

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Scientific Test Programs
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<u>PROJECT NO.</u>	<u>TITLE</u>	<u>SPONSORING AGENCY</u>
7.4	Calibration Analysis of A-Bomb Debris PROGRAM 9 - SUPPORTING MEASUREMENTS	DOD
9.1	Cloud Photography PROGRAM 11 - RADIOCHEMISTRY	AEC(LASL)
11.1	Analysis for Fission and Fusion Energy Yields (Overseas phase will be handled by 11.2)	
11.2	Sample Collection	
11.3	Heavy Element Investigations PROGRAM 12 - REACTION HISTORY	AEC(LASL)
12.1	DELETED Reaction History	
12.2	Telemetered Time Interval	
12.3	DELETED Reaction History PROGRAM 13 - PHOTOGRAPHY	AEC(LASL)
13.1	Ball of Fire Photography	
13.2	Cloud Photography	
13.3	Ehangmeters, GR Slit Cameras, etc.	
13.4	High-speed Photography	
13.5	Time Interval Measurement with Bowen Cameras PROGRAM 14 - EXTERNAL NEUTRON MEASUREMENTS	AEC(LASL)
14.1	Threshold Detectors PROGRAM 15 - ALPHA MEASUREMENTS	AEC(LASL)
15.1	Teller and Scintillation Alpha	
15.2	Electromagnetic Alpha PROGRAM 16 - GAMMAS AND RESIDUAL CONTAMINATION	AEC(LASL)
16.1	Gamma Intensity at Late Times PROGRAM 17 - MICROBAROGRAPHY	AEC(LASL)
17.1	Microbarography	

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Scientific Test Programs
CJTF SEVEN No. 3-53

<u>PROJECT NO.</u>	<u>TITLE</u>	<u>SPONSORING AGENCY</u>
	PROGRAM 18 - THERMAL RADIATION	AEC(LASL)
18.1	Time Interval Between Reactions	
18.2	Power vs Time	
18.3	Spectroscopy	
18.4	Air Transmission and Resolution	
18.5	Total Thermal Radiation	
	PROGRAM 19 - MARINE SURVEY	AEC(LASL)
19.1	Marine Survey	
	PROGRAM 21 - RADIOCHEMISTRY	AEC(UCRL)
21.1	Analysis for Fission and Fusion Energy Yields	
21.2	Sample Collection	
21.3	Heavy Element Investigations	
21.4	Gas Analysis	
	PROGRAM 22 - HISTORY OF THE REACTION	AEC(UCRL)
22.1	Ganex	
22.2	Tenex	
22.3	Alpha	
	PROGRAM 23 - SCIENTIFIC PHOTOGRAPHY	AEC(UCRL)
23.1	Hot Spot Time Interval Measurements	
23.2	Ball of Fire Photography	
	PROGRAM 24 - EXTERNAL NEUTRON MEASUREMENTS	AEC(UCRL)
24.1	Phonex	
	PROGRAM 25 - DIAGNOSTIC DEVELOPMENTS	AEC(UCRL)
25.1	Electromagnetic Measurements	

P. W. CLARKSON
Major General, U.S. Army
Commander

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Field Manager, Eniwetok Proving Ground, Box 5400, Albuquerque, New Mexico	7
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Colonel, U.S. Air Force
Assistant Chief of Staff, J-3

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