Mr. Curry:

Following differences were found:

CJTF SEVEN

LASL

- 6.1 Indirect Bomb Damage Assessment
- 6.2a Effects of Blast, Gust, and Thermal on AC in Flight (B-36 Aircraft)
- 6.2 Effects of Blast, Gust and Thermal on Aircraft in Flight
- 6.2b Effects of Blast, Gust, and Thermal on AC in Flight (B-47 Aircraft)

Reaction History

Reaction History

- 12.2 Telemetered Time Interval
- 18.4 Air Transmission and Resolution
- 18.4 Air Transmission
- 25.1 Electromagnetic Measurements

Respectfully,

1/18/53

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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

- 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.

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

The following scientific test programs and projects will be conducted:

PROJECT NO. TITLE

SPONSORING AGENCY

PROGRAM 1 - BLAST AND SHOCK MEASUREMENTS DOD

1.1 Blast Measurements by Photography

- a. Free Air Pressure (Rocket Trails)b. Precursor Phenomena (Rocket Trails)
- c. Base Surge Phenomena
- d. Peak Pressure by Aerial Photography

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1.2 P vs T on the Surface

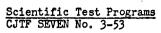
a. Pressures less than 40 psi

8 PO Amely 6.

b. Pressures greater than 40 psi

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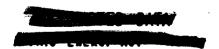
3



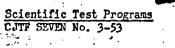
	PROJECT NO	. TITLE	SPONSORING AGENCY
	1.3	Shock Winds and Afterwinds	
	1.4	Underwater P vs T	
	1.5	Acoustic Pressure Signals in Water (S	OFAR)
	1.6	Water Wave Studies	
	1.7	Close-in Ground Accelerations	
	1.8	Dynamic Pressure Investigations	
		PROGRAM 2 - NUCLEAR EFFECTS	DOD
	2.1	Gamma Film Dosage Measurements	
	2.2	Gamma Dose Rate vs Time	
	2.3	Neutron Flux and Spectrum Measurement	s
	2.5a	Fall-out Distribution Studies	
	2.5b	Fall-out Distribution Studies	
	2.6a	RC Analysis of Ground Contamination	
	2.6ъ	RC Analysis of Ground Contamination	
		PROGRAM 3 - STRUCTURES	DOD
	3.1	Loading of Structures	
	3.2	Crater Survey and Evaluation	
Cap 1 2/10/64	3.3 3.4	Tree Stand Studies New Alliance of Wine Fields. PROGRAM 6 - TEST OF SERVICE EQUIPME AND OPERATION	INT DOD
	6.1	Indirect Bomb Damage Assessment	
	6.2	Effects of Blast, Gust and Thermal on in Flight	Aircraft
	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 So from Atomic Explosions	und

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PROJECT I	VO. TITLE SPONS	SORING AGENCY
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 Pusion Energy Yiel (Overseas phase will be handled by 11.2)	ds
11.2	Sample Collection	
11.3	Heavy Element Investigations	
12.1	PROGRAM 12 - REACTION HISTORY Reaction History	AEC(LASL)
12.2	Telemetered Time Interval	
12.3	Reaction History	
	PROGRAM 13 - PHOTOGRAPHY	AEC(LASL)
13.1	Ball of Fire Photography	
13.2	Cloud Photography	÷
13.3	Bhangmeters, GR Slit Cameras, etc.	
13.4	High-speed Photography	
13.5	Time Interval Measurement with Bowen Camera	3
	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 - MICHOBAROGRAPHY	AEC(LASL)
17.1	Microbarography	

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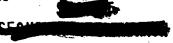
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PROJECT NO.	<u>TITLE</u>	SPONSORING AGENCY
	PROGRAM 18 - THERMAL RADIATION	AEC(LASL)
18.1	Time Interval Between Reactions	
18.2	Power vs Time	
18.3	Spectroscopy	
18.4	Air Transmission and Resolution	
18.5	Total Thermal Radiation	
	PROGRAM 19 - MARINE 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	ON 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 DEVELOPMENT	is . AEC(UCRL)
25.1	Electromagnetic Measurements	

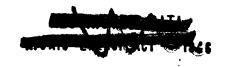
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OFFICIAL:

WILLIAM S. COWART, JR.

Colonel, U.S. Air Force Assistant Chief of Staff, J-3

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Joint Task Force SEVEN

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