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# OPERATION CASTLE

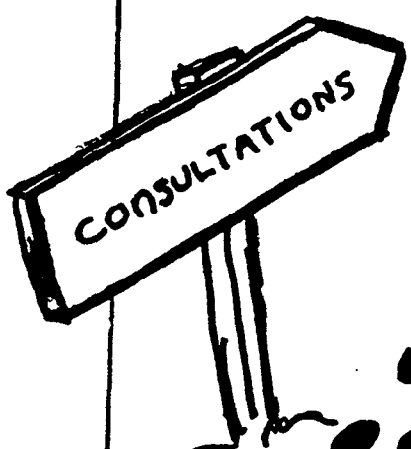
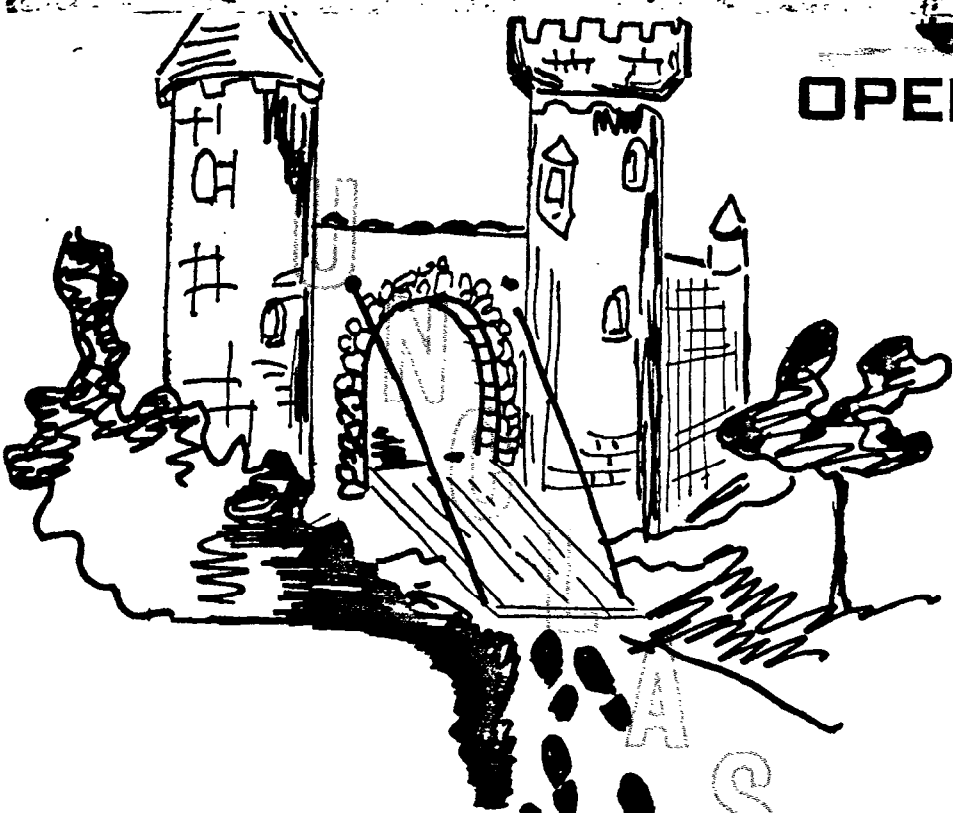
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J-18517

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## PROJECT OFFICERS MEETING

JUNE 23-24

CLASSIFICATION CANCELLED WITH DELETIONS BY AUTHORITY OF DOE/OC

DATE 10/23/85  
BY J. Watson (J.D.) DATE 9/18/85

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OUTLINE OF SCIENTIFIC PROGRAMS - OPERATION CASTLE

TASK UNIT 13 - DOD PROGRAMS

PROGRAM 1 - Blast and Shock Measurements Capt. N. E. Kingsley

1.1 Blast Measurements by Photography

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

1.2 P vs. T on the Surface

a. Pressures less than 40 psi	Sandia Corp	J. D. Shreve, Jr.
b. Pressures greater than 40 psi	BRL	M. F. Clarke

1.3 Shock Winds and Afterwinds Sandia Corp B. F. Murphey

1.4 Underwater P vs. T ONR-NOL-DTMB W. J. Thaler

1.5 Acoustic Pressure Signals in Water (SOFAR) ONR J. W. Smith

1.6 Water Wave Studies ONR-Scripps R. R. Revelle

1.7 Close-in Ground Accelerations Sandia Corp B. F. Murphey

PROGRAM 2 - Nuclear Effects Lt Col E. A. Martell

2.1 Gamma Film Dosage Measurements ESL Capt J. Graham

2.2 Gamma Dose Rate vs. Time ESL R. C. Bass

2.3 Neutron Flux & Spectrum Measurements NRL T. D. Hanscome

2.4 (Canceled)

2.5a Fall-out Distribution Studies NRDL E. R. Tompkins

2.5b Fall-out Distribution Studies CRL E. F. Wilsey

2.6a RC Analysis of Ground Contamination NRDL E. R. Tompkins

2.6b RC Analysis of Ground Contamination CRL R. C. Tompkins

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PROGRAM 3 - Structures Capt N. E. Kingsley

3.1 Loading of Structures	ONR-SRI	L. M. Swift
3.2 Crater Survey and Evaluation	ONR-SRI	R. B. Vaile, Jr.
3.3 Tree Stand Studies	ONR-SRI	L. M. Swift

PROGRAM 6 - Tests of Service Equipment and Operations Lt Col D. I. Prickett

6.1 Evaluation of IBDA Techniques	WADC	F. S. James
6.2 Effects of Blast, Gust, and Thermal on AC in Flights	WADC	R. C. Long
6.3 Electromagnetic Effects	ESL	W. T. Kertulla
6.4 Proof Testing of AW Countermeasures	BuShips	Capt G. G. Molumphy
6.5 Decontamination and Protection	GRL	J. G. Maloney

PROGRAM 7 - Long Range Detection Col P. R. Wignall

7.1 Electromagnetic Radiation Calibration	AFOAT-1	M. H. Oleson
7.2 Detection of Airborne Low Frequency Sound from Atomic Explosions	AFOAT-1	G. B. Olmstead
7.3 (Canceled)		
7.4 Calibration Analysis of A-Bomb Debris	AFOAT-1	W. Singlevich

PROGRAM 8 - Thermal Measurements Capt N. E. Kingsley

DOD Thermal Measurements Program integrated into LASL program which will come under Harold Stewart of NRL.

PROGRAM 9 - Supporting Measurements Lt Col Jack G. James

9.1 (Tentative) Cloud Photography	EG&G	Lewis Fussell
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Project 9.1 is tentative, otherwise Program 9 is for funding purposes only. Photography by EG&G and Lookout Mountain Laboratory; Timing by EG&G, and meteorology by JTF 7, will be parts of requiring projects.

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TASK UNIT 1 - LASL PROGRAMS (R. L. Aamodt)

PROGRAM 11 - RADIOCHEMISTRY (R. Spence)

- 11.1 Analysis for Fission and Fusion Energy Yields (J-11, G. Cowan)  
11.2 Sample Collection (J-11, H. Plank)  
11.3 Heavy Element Investigations (J-11, UCRL, C. Brown)

PROGRAM 12 - REACTION HISTORY (B. Watt)

- 12.1 ~~SECRET~~ Reaction History (UCRL, S. Colgate)  
12.2 Telemetered Time Interval (J-16, B. Watt)  
12.3 ~~SECRET~~ Reaction History (J-16, B. Watt)

PROGRAM 13 - PHOTOGRAPHY (G. Felt)

- 13.1 Ball of Fire Photography (EG&G, H. Grier)  
13.2 Cloud Photography (EG&G, H. Grier)  
13.3 Monochromatic Photography - GR Slits, Etc. (EG&G, H. Grier)  
13.4 High-speed Photography (J-15, G. Felt)  
13.5 Time Interval Measurement with Howens (J-15, G. Felt)

PROGRAM 14 - EXTERNAL NEUTRON MEASUREMENTS - (C. Cowan)

- 14.1 Threshold Detectors (J-12, W. Biggers)  
14.2 Nuclear Emulsion Plates (J-12, D. Phillips) (Will probably be dropped)

PROGRAM 15 - ALPHA MEASUREMENTS (N. H. Smith)

- 15.1 Teller and Scintillation Alpha (J-13)  
15.3 Telemetered Alpha (J-13)

PROGRAM 16 - GAMMAS AND RESIDUAL CONTAMINATION (B. Watt?)

- 16.1 Gamma Intensity at Late Times

PROGRAM 18 - THERMAL RADIATION (H. Hoerlin)

- 18.1 Time Interval Between Reactions (NRL, H. Stewart)  
18.2 Power vs Time (NRL, H. Stewart)  
18.3 Spectroscopy (NRL, H. Stewart)

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18.4 Air Transmission and Resolution (NRL, H. Stewart)

18.5 Total Thermal Radiation (NRL, H. Stewart)

TASK UNIT 12 - UCRL - LIVERMORE PROGRAMS (A. J. Hudgins)

PROGRAM 21 - RADIOCHEMISTRY (K. Street)

21.1 Heavy Elements (UCRL, K. Street)

21.2 Gas Analysis (UCRL, W. Crane)

PROGRAM 22 - HISTORY OF THE REACTION (S. Colgate)

22.1 Ganex (UCRL, S. Colgate)

22.2 Tenex (UCRL, S. Colgate)

22.3 Alpha (UCRL, S. Colgate)

PROGRAM 23 - SCIENTIFIC PHOTOGRAPHY (D. Born)

23.1 Case Photo (UCRL, D. Born)

23.2 Ball of Fire Photography (EG&G)

PROGRAM 24 - EXTERNAL NEUTRON MEASUREMENTS (S. White)

24.1 Phonex (UCRL, S. White)

PROGRAM 25 - DIAGNOSTIC DEVELOPMENTS (R. Aiken)

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REVISED CASTLE SHOT SCHEDULE

1. The following Castle Shot Schedule supersedes that given in J-16757 of 7 April 1953, as changed by J-18061 of 19 May 1953, and is that promulgated by TWX J-18295 of 5 June.

2. Please note changes in names of models, yields, locations; these changes should be carefully considered in preparing the revisions of the Status Reports.

<u>Shot</u>	<u>Date</u>	<u>Site</u>
1	15 Feb	Bikini. On Reef 2500 yds SW Namu
2	25 Feb	Bikini. S of Yurochi (Barge)
3	8 Mar	Bikini. NE of <del>XXXXXXXXXX</del> (Barge)
4	17 Mar	Bikini- Eninman
5	24 Mar	Eniwetok - Eberiru
6	3 Apr	Eniwetok - Elugelab Crater (Barge)

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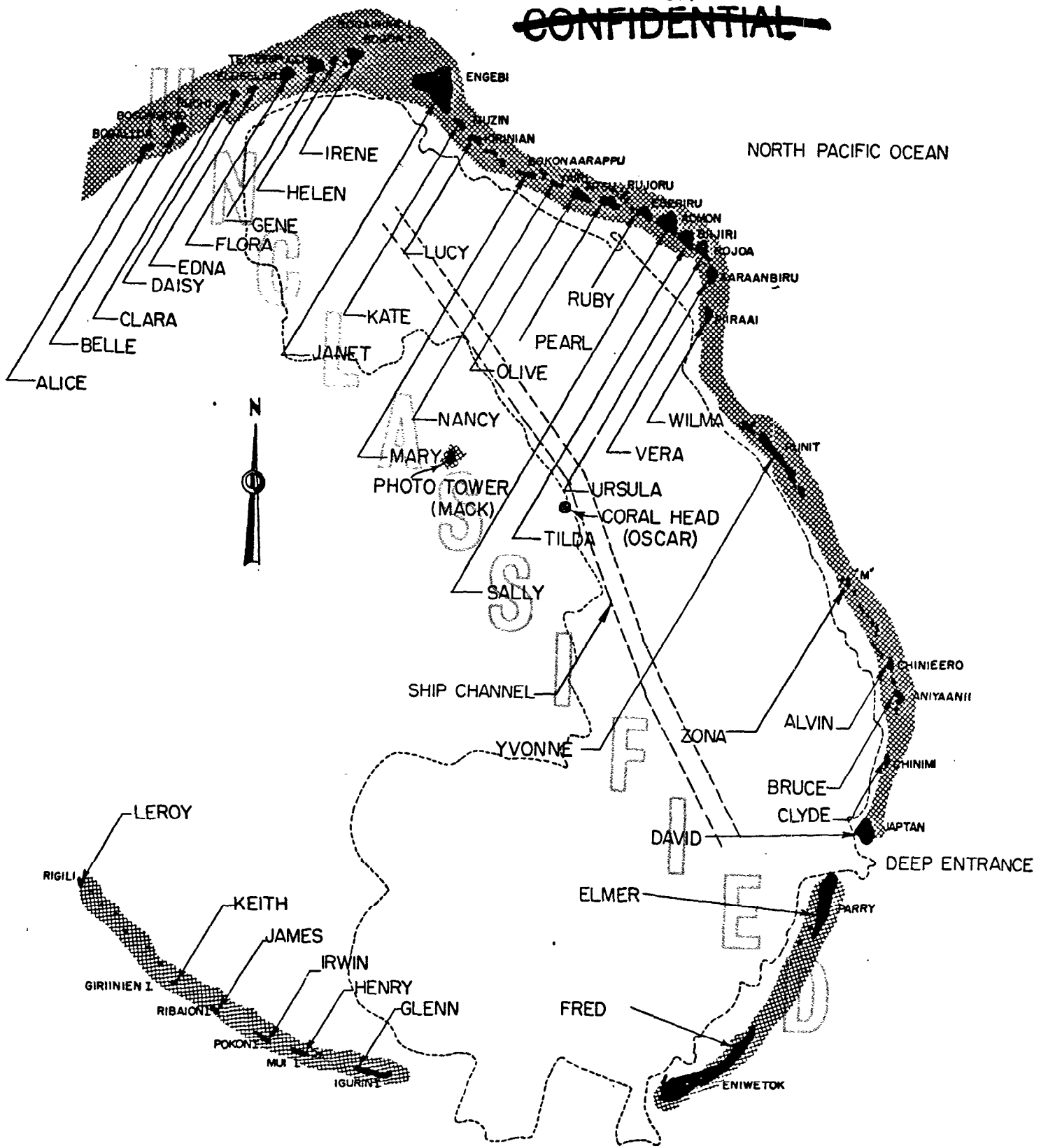
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