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FOR R. C. SMITH'S APPROVAL BEFORE DISPATCHING

Ralph F. Johnson, Asst. Manager for Eng.,
Const. and Test Operations SFO
A. C. Graves, Leader, J-Division, LASL

August 5, 1954

REPORT OF THE MANAGER, SFO, FOR OPERATION CASTLE

900-163

The following comments on the first draft of the subject report
are forwarded in compliance with the request contained in your memo-
randum of August 2, 1954.

PART I

DEPARTMENT OF ENERGY CLASSIFICATION REVIEW	
1ST REVIEWER-DATE 6/16/94	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: DAOC BACD 1000	1. CLASSIFICATION RETAINED
NAME: W. M. Johnson	2. CLASSIFICATION CHANGED TO:
2ND REVIEWER-DATE 6-17-94	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: DAOC BACD 1000	4. COORDINATE WITH:
NAME: W. M. Johnson	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED

Sec. 1.5

Add the following:

BuOrd	Bureau of Ordnance (Navy)
SAC	Strategic Air Command
BuShips	Bureau of Ships (Navy)
U. of Wash.	University of Washington Applied Fisheries Laboratory
DBM	Division of Biology & Medicine, AEC
BuMS	Bureau of Medicine & Surgery (Navy)

Sec. 1.6

The second paragraph is somewhat misleading. Significant radio-activity at great distances was considered in connection with MIKE Shot and the natives were evacuated from Ujelang as a precautionary measure. A project to measure fall-out in the open sea was eliminated because of its possible interference with the Navy's anti-submarine radar search program. I suggest that the following be substituted for the second and third sentences of the second paragraph:

"The decision to fire was based on a predicted surface radex that showed no fall-out on inhabited islands that was significant from a health hazard standpoint."

Page 12

Line 4

Before "DOU" insert "a joint AEC-".

Line 6

Change "all" to "many".

Page 13

Line 7

Change "are" to "is".

Page 16

Line 5

After "Force" add "and Task Group".

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THIS DOCUMENT

NO. 4 OF 5

DEPARTMENT OF ENERGY CLASSIFICATION REVIEW	
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AUTHORITY: DAOC BACD 1000	1. CLASSIFICATION RETAINED
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AUTHORITY: DAOC BACD 1000	4. COORDINATE WITH:
NAME: W. M. Johnson	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

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~~DATA~~
The Atomic Energy Act of 1954, as amended, requires that the information contained in this report be controlled in a manner to an unauthorized person is prohibited.

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Page 16

In the first sentence of the third paragraph substitute "the Rad-Safe organization of the Scientific Task Group" for "military Rad-Safe organizations." The TG 7.1 Rad-Safe Unit is not considered a military organization.

PART II

Page 21

In the third paragraph change "phenomenal" to "tsunami".

Section 1.2

At the end of the section add:

"(7) [REDACTED]"

Section 3.4

Change "weight" to "weighed".

Section 3.8

[REDACTED]

PART III

Page 29

The last two sentences are not understood. Action to handle this emergency was largely guided by decisions arrived at in frequent meetings of key TG 7.1, 7.5, and Holmes & Harver personnel on the USS ESTES where they were quartered at Bikini, and at Parry Island when Eniwetok action was involved. Other task groups and the task force were represented or consulted as appropriate. It is hard to see how coordination could have been closer or more effective.

What the "overlapping responsibility" is I do not know.

Section 1.2

Delete the introductory phrase.

Page 31

Third Line from the bottom of the page - change "was" to "were".

Page 32

It is suggested that the following be substituted for the last sentence of the second paragraph:

"A large majority of the minor scientific stations were completed and occupied by the user in advance of construction schedules. Beneficial occupancy of major scientific stations by the users was frequently obtained by the desired completion date."

We consider that a facility is not completed until all work called for in the plans and specifications is completed as opposed to the interpretation that if the experimenter can begin moving equipment in on the day the facility was scheduled to be finished the contractor has "met the date" - even though the power system may not

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be operable (Watt, Smith), the doors may bounce (Felt), the elevators may not operate (Grier), the air-conditioning may not function (Colgate), the screen rooms may be shorted (Watt), etc.

Page 32

The paragraph beginning at the bottom of the page, although correct, might be misleading to someone unfamiliar with planning schedules for test program. The deadline of 1 May 1953 occurred during UPSHOT-KNOTHOLE, the results of which affected much of the scientific planning for CASTLE. A number of projects were added after this deadline and there were, of necessity, many changes in the operational concept after that date. This situation is bound to prevail in any test operation.

Page 33
Paragraph 2

This excess of cable proved invaluable when we expanded into the northern part of Eniwetok Atoll [redacted] when the Bikini system had to be patched. DCE

Section 2.4
1st Paragraph

This might be a good place to justify the surveying effort if such justification is needed. Laying out of the scientific program was handicapped by the lack of topography and hydrography. This lack of information resulted in the relocating of many minor stations during the construction phase to secure the desired lines of sight, areas of tidal wash, etc.

Page 38
Last sentence

It is believed that the "19-pair" should be "16-pair".

Page 41
1st Paragraph

The installation of the Dog-500 (Yurochi) power plant without shelter is not considered a desirable practice for future operations although it might seem to have been a money-saving device.

Page 44
3rd Paragraph

Mention here of TG 7.3's difficulties with the Eninman mole and ramp might assist in obtaining funds for better facilities in the future.

Page 47
3rd Paragraph
Last sentence

Only new model (water-proof) jeeps could make this crossing on some tides.

Page 48
Para (1)

The bridge crane was a common commercial electric crane - not pneumatic.

Page 49
1st Paragraph

This building contained XP, VP and standard wiring and receptacles.

4th Paragraph

After "storage" add "of nuclear components".

5th Paragraph

Add the following: "Both sides of the slip as well as the slip proper were dredged to permit berthing of three barges at the same time."

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Section 2.6.5

The construction of a decontamination pad with steam facilities at Parry might be mentioned in this section.

Page 53

1st Sentence

Delete "first" and substitute "a high".

Comments affecting Holmes & Harver are not intended as a criticism of their performance particularly with regard to obtaining design criteria, establishing completion dates, etc. They did what was humanly believed possible and then some.

Original signed by
ALVIN C. GRAVES

Alvin C. Graves
Leader, J-Division
IASL

ACG:DC:JG

Distribution:

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