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NMB-U

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Castle  
X.3.10.1  
AEC

FOR R. C. SMITH'S APPROVAL BEFORE DISPATCHING

*August 5, 1954*

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

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.

| DEPARTMENT OF ENERGY CLASSIFICATION REVIEW |                                     |
|--|-------------------------------------|
| 1ST REVIEWER-DATE: <i>6/11/54</i>          | 1. DETERMINATION (CIRCLE NUMBER(S)) |
| AUTHORITY: DAOC <i>EAAC 100</i>            | (1) CLASSIFICATION MAINTAINED       |
| NAME: <i>Lee M. Johnson</i>                | 2. CLASSIFICATION CHANGED TO:       |
| 2ND REVIEWER-DATE: <i>6-17-54</i>          | 3. CONTAINS NO DCE CLASSIFIED INFO  |
| AUTHORITY: <i>DAOC</i>                     | 4. COORDINATE WITH:                 |
| NAME: <i>DAOC</i>                          | 5. CLASSIFICATION CANCELLED         |
|  | 6. CLASSIFIED INFO BRACKETED        |

PART I

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
- DEM 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 radar that showed no fall-out on inhabited islands that was significant from a health hazard standpoint."

Deleted Version

| DEPARTMENT OF ENERGY CLASSIFICATION REVIEW |                                     |
|--|-------------------------------------|
| 1ST REVIEWER-DATE: <i>6/22/54</i>          | 1. DETERMINATION (CIRCLE NUMBER(S)) |
| AUTHORITY: DAOC <i>EAAC 100</i>            | (1) CLASSIFICATION MAINTAINED       |
| NAME: <i>Lee M. Johnson</i>                | 2. CLASSIFICATION CHANGED TO:       |
| 2ND REVIEWER-DATE: <i>6/22/54</i>          | 3. CONTAINS NO DCE CLASSIFIED INFO  |
| AUTHORITY: <i>DAOC</i>                     | 4. COORDINATE WITH:                 |
| NAME: <i>DAOC</i>                          | 5. CLASSIFICATION CANCELLED         |
|  | 6. CLASSIFIED INFO BRACKETED        |
|  | 7. OTHER (SPECIFY):                 |

Page 12  
Line 4

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

Line 6

Change "all" to "may".

Page 13  
Line 7

Change "are" to "is".

Page 16  
Line 5

After "force" add "and Task Group".

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DATE 4/10/01 BY SP4/BJA

~~RESTRICTED DATA~~  
The restriction of this information is required by the Atomic Energy Act of 1954, in order to prevent the disclosure of information in a manner to an unauthorized person is prohibited.

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Ralph P. Johnson

Page 2

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Page 16

In the first sentence of the third paragraph substitute "the Red-Safe organization of the Scientific Task Group" for "military Red-Safe organizations." The TG 7.1 Red-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)

Section 3.4

Change "weight" to "weighed".

Section 3.8

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 KP, 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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Ralph P. Johnson

Page 4

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Section 2.6.5

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

Page 53  
1st Sentence

Delete "first" and substitute "a high".

Comments affecting Holmes & Narver 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  
LASL

ACG:DC:JU

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