NMB-U

FOR R. C. SMITH'S APPROVAL BEFORE DISPATCHING

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

REPORT OF THE MANAGER, SPO, FOR OPERATION CASTLE QAD-163

The following comments on the first draft of the subject report are forwarded in compliance with the request contained in your memo-DEPARTMENT OF ENERGY randum of August 2, 1954. IST REVIEWER-DATE GILLS

PART I

Bec. 1.5

Add the followings

BuOrd BAC Buships

U. of Wash.

Bureau of Ordnance (Mavy) Strategic Air Command Bureau of Ships (Nevy)

University of Washington Applied Fisheries Laboratory

TIPM

Bulles

Division of Biology & Medicine, AEC Burneu of Medicine & Surgery (Navy)

AUTHORITY: DAOC MAD

NAME: 10.71

2ND REVIEWE

116-17-94 H.

ASSIFICATION CANCELLED

Sec. 1.6 The second paragraph is somewhat misleading. Significant radioactivity at great distances was considered in connection with NIKE Shall and the natives were evacuated from Uielang as a precautionary measure. A project to measure fall-out in the open sea was eliminated because of its possible interference with the Savy'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 redex that showed no fall-out on inhabited islands that was significant from a health hazard standpoint."

Page 12

Before DOD" insert "a joint AEC-".

Line 6

Change "all" to "many".

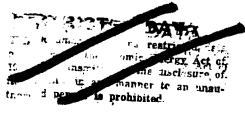
Page 13 Line 7

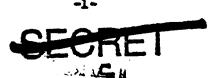
Change "are" to "is".

Page 16

After "Force" add "and Task Group".

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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 set 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 TC 7.1, 7.5, and Holmes & Harver personnel on the USS ESTES where they were quartered at Bikini, and at Parry Island when Enivetok 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

Balph P. Johnson

Page 3

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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 serven rooms my be shorted (Wett), etc.

Page 32

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

This excess of cable proved invaluable when we expanded into the northern part of Enivetok Atoll when the Bikini system had to be patched.

Section 2.4

This might be a good place to justify the surveying effort if Ist Paragraph such justification is needed. Laying out of the scientific program was bandicapped 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

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

Page 44 Ird Paragraph

Mention here of TC 7.3's difficulties with the Enimen mole and ramp might essist 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

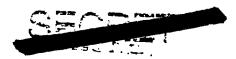
This building contained EP, VP and standard wiring and receptacles.

4th Paragraph

After "storage" add "of nuclear components".

5th Paragraph

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





Ralph P. Johnson

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Section 2.6.5

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

Page 53 1st Sentence Delete "first" and substitute "a high".

Comments affecting Holmes & Marver 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. GREVES

Alvin C. Graves Leader, J-Division LASL

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