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

PART I

Add the following:

BuOrd
SAC
BuShips
U. of Wash.
DEM
BMD

Bureau of Ordnance (Navy)
Strategic Air Command
Bureau of Ships (Navy)
University of Washington Applied Fisheries Laboratory
Division of Biology & Medicine, AEC
Bureau of Medicine & Surgery (Navy)

Sec. 1.6

The second paragraph is somewhat misleading. Significant radioactivity 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."

Page 12
Line 4

Before "DOD" 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".
Page 16

In the first sentence of the third paragraph substitute "the
Res-Safe organization of the Scientific Task Group" for "military
Res-Safe organizations." The TC 7.1 Res-Safe Unit is not con-
sidered 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 fre-
quent meetings of key TC 7.1, 7.5, and Holmes & Harver personnel
on the UBS ESSEX where they were quartered at Bikini, and at Parry
Island where 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 users 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 con-
tactor has "met the date" - even though the power system may not
be operable (Matt, 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 (Matt), etc.

The paragraph beginning at the bottom of the page, although correct, might be misleading to someone unfamiliar with planning schedules for test programs. The deadline of 1 May 1953 occurred during UNCOVER-OCCURRENCE, 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.

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

This might be a good place to justify the surveying effort if such justification is needed. Laying out 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.

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

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.

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

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

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

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

After "storage" add "of nuclear components".

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."
Section 2.6.5

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

Page 53

Delete "first" and substitute "a high".

1st Sentence

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
LMDL

ACG:DC:JU

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