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EH-71/55

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TO: Brig. Gen. K. E. Fields
Division of Military Application
Atomic Energy Commission
Washington 25, D. C.

THRU: N. E. Bradbury, Director, LASL Original Signed by N. E. Bradbury

FROM: A. C. Graves

SUBJECT: OPERATIONAL CONCEPT OF CASTLE (U)

SYMBOL: J-15163

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 04-25-97	1. DETERMINATION (CIRCLE NUMBER)
AUTHORITY: EAOB (EACD) (EADD)	1. CLASSIFICATION RETAINED
NAME: [redacted]	2. CLASSIFICATION CHANGED TO:
2ND REVIEW DATE: 12-7-97	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: ADD	4. COORDINATE WITH:
NAME: [redacted]	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

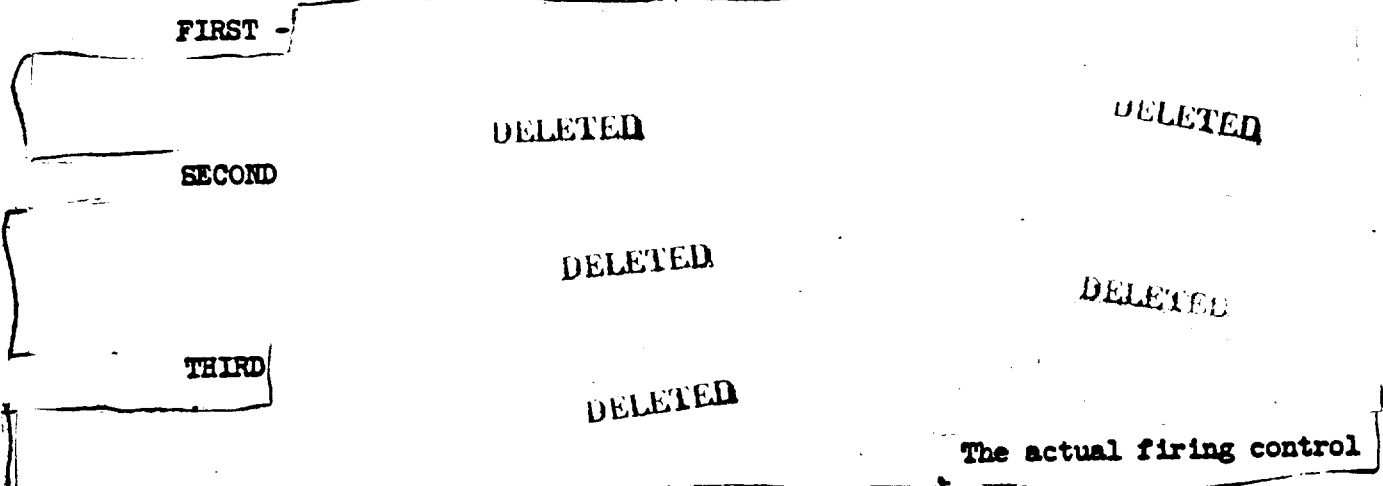
LANL
A-91-048
File 8-69

Sanitized by NN-523
on 2/5/98

1. General:

This concept is intended to indicate a feasible plan for a six shot Castle operation and to serve as a basic planning guide on which detailed plans can be formulated. Caution must be exercised to the extent that the devices to be tested are still quite tentative and changes in this concept may become necessary.

2. The Castle Schedule - The following is the proposed plan of detonations:



system will be located on an AGC type ship.




THIS DOCUMENT CONSISTS OF 3 PAGE(S)
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necessary to have the capability of such evacuation. All Bikini shots will require complete evacuation either aboard ship or to Eniwetok Atoll.

B. Phasing - Preliminary consideration of a base facilities construction program, the design fabrication, shipment, etc. of the device indicates a schedule for the first detonation of about 1 March 1954. By maximum use of key personnel on instrumentation readiness subsequent detonations may possibly be scheduled at ten day intervals.



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C. Requirements - A preliminary review of major requirements which will be needed from the Military Services indicates that those set forth in CJTF 132's report to JCS dtd 4 August (JCS series 2179), with adjustments, will be adequate even though the present Castle scope is much broader than that of August 1952. One such adjustment would be the need for a CVE of the Rendova class with the primary mission of furnishing a platform and support base for helicopters for both Bikini and Eniwetok shots. In addition, suitable barges for cab platforms will be needed, in this connection the SFOO, AEC is now investigating the availability of these from commercial or government sources. Moreover, the many undeveloped islands on Bikini Atoll which will almost certainly be instrumented for effects and development experiments will increase the number of helicopters required. The requirements will be continually reviewed by Task Group 132.1 with a view of presenting detailed requests as early as possible. Subsequent revisions will be submitted as necessary.

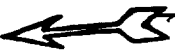
It is requested that the Commission approve the above concept at an early date in order that detailed planning can proceed.

Alvin C. Graves

ALVIN C. GRAVES
J Division Leader

ACG:rw

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