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THE WHITE HOUSE
WASHINGTON

October 22, 1990

NATIONAL SECURITY DIRECTIVE 52

MEMORANDUM FOR THE VICE PRESIDENT

THE SECRETARY OF STATE
THE SECRETARY OF DEFENSE
THE ATTORNEY GENERAL
THE SECRETARY OF ENERGY
THE DIRECTOR, OFFICE OF MANAGEMENT AND BUDGET
THE ASSISTANT TO THE PRESIDENT FOR NATIONAL
SECURITY AFFAIRS
THE DIRECTOR OF CENTRAL INTELLIGENCE
THE CHAIRMAN, JOINT CHIEFS OF STAFF
THE DIRECTOR, ARMS CONTROL AND DISARMAMENT AGENCY
THE DIRECTOR, OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: The FY 1991 Sculpin Nuclear Test Program (U)

I have approved the FY 1991 Sculpin Nuclear Test Program proposed by the Secretary of Energy. In implementing the Sculpin program, the following guidance will apply:

- All tests associated with Sculpin will be conducted in compliance with the Limited Test Ban Treaty, with the National Environmental Policy Act and all other relevant environmental laws and regulations. (S)
- The Department of Energy shall review each test with design yields near 150 kilotons to reasonably ensure that the device yield does not exceed the Threshold Test Ban Treaty limit. (S)
- It is likely that the Threshold Test Ban Treaty, along with its new verification protocol, will come into force during the period of implementation of the Sculpin program. Tests must be conducted in full compliance with the treaty and its protocols. Successful implementation of the treaty -- granting Soviet inspectors the access allowed by the treaty while protecting classified information and minimizing interference in the U.S. test program -- will require careful and close cooperation among U.S. agencies. (U)

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ATTACHMENT

Declassify on: OADR

Partially Declassified/Released on 8-20-96
under provisions of E.O. 12958
by D. Van Tassel, National Security Council

F89-191


(52)

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The testing agency shall continue to coordinate public affairs activities related to the implementation of the Sculpin program, as appropriate, in advance of test events. (U)

The FY 1992 Nuclear Test Program should be provided for my approval by September 1, 1991. (U)

A handwritten signature in black ink, appearing to read "G. Burt".A large, hollow, stylized letter 'G' with a grainy, stippled texture, centered on the page.A second large, hollow, stylized letter 'G' with a grainy, stippled texture, identical to the one above, centered on the page.

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Unique Document No. 90-DP252-253
This document consists of 8 pages
No. 1 of 36 copies, Series A

Attachment 1

SCULPIN FY 1991 UNDERGROUND NUCLEAR TEST SERIES (U)

I. Department of Energy (DOE) Weapon Development Tests

A. Current/Near-term Stockpile

Nuclear tests in this category are designed to demonstrate the performance of production model warheads that have been certified for the stockpile. Tests are also included in this category that support the development and characterization of specific weapons for Department of Defense (DOD) systems.



*Atomic Energy
Act
1.5(a)*

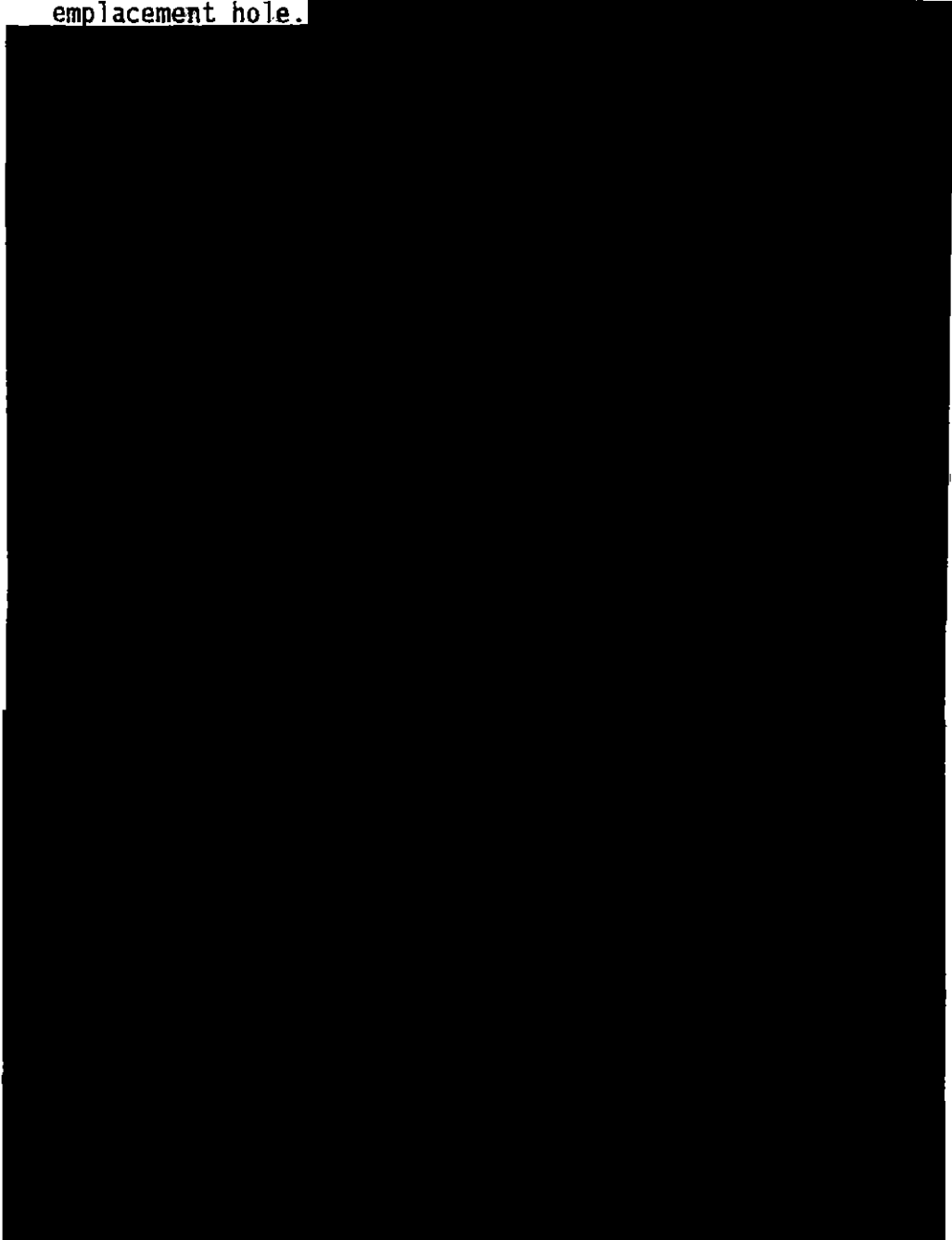
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DATE: 11/11/91
BY: [illegible]

Derivative Classifier:
D. Garcia, Director, DP-25

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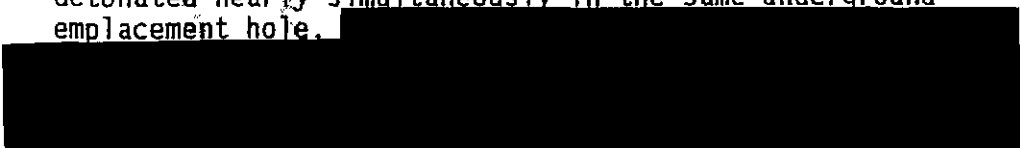
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COSO will include two nuclear devices to be detonated nearly simultaneously in the same underground emplacement hole.



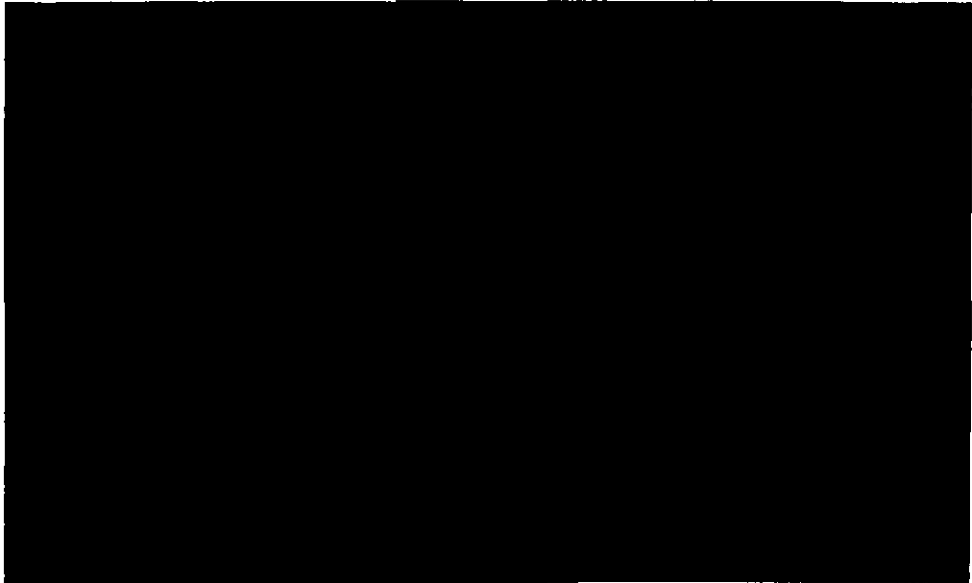
*Atomic Energy Act
1.5 (g)*

MONTELLO will include two nuclear devices that will be detonated nearly simultaneously in the same underground emplacement hole.



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1.5 (g)*

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B.



Atomic Energy Act

Program

Test Name

Quarter

Laboratory



CARLIN
LUBBOCK
HOYA
JUNCTION

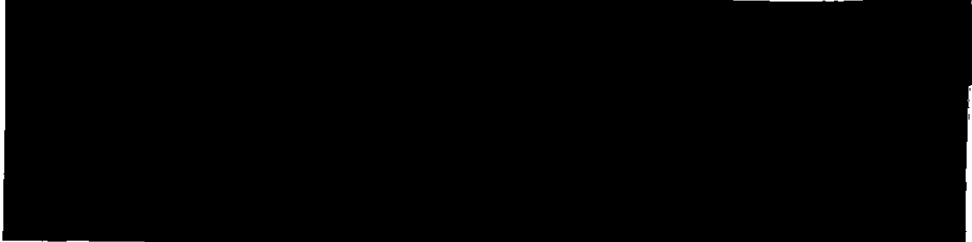
Third
Third
Fourth
FY 1992

LLNL
LANL
LLNL
LANL

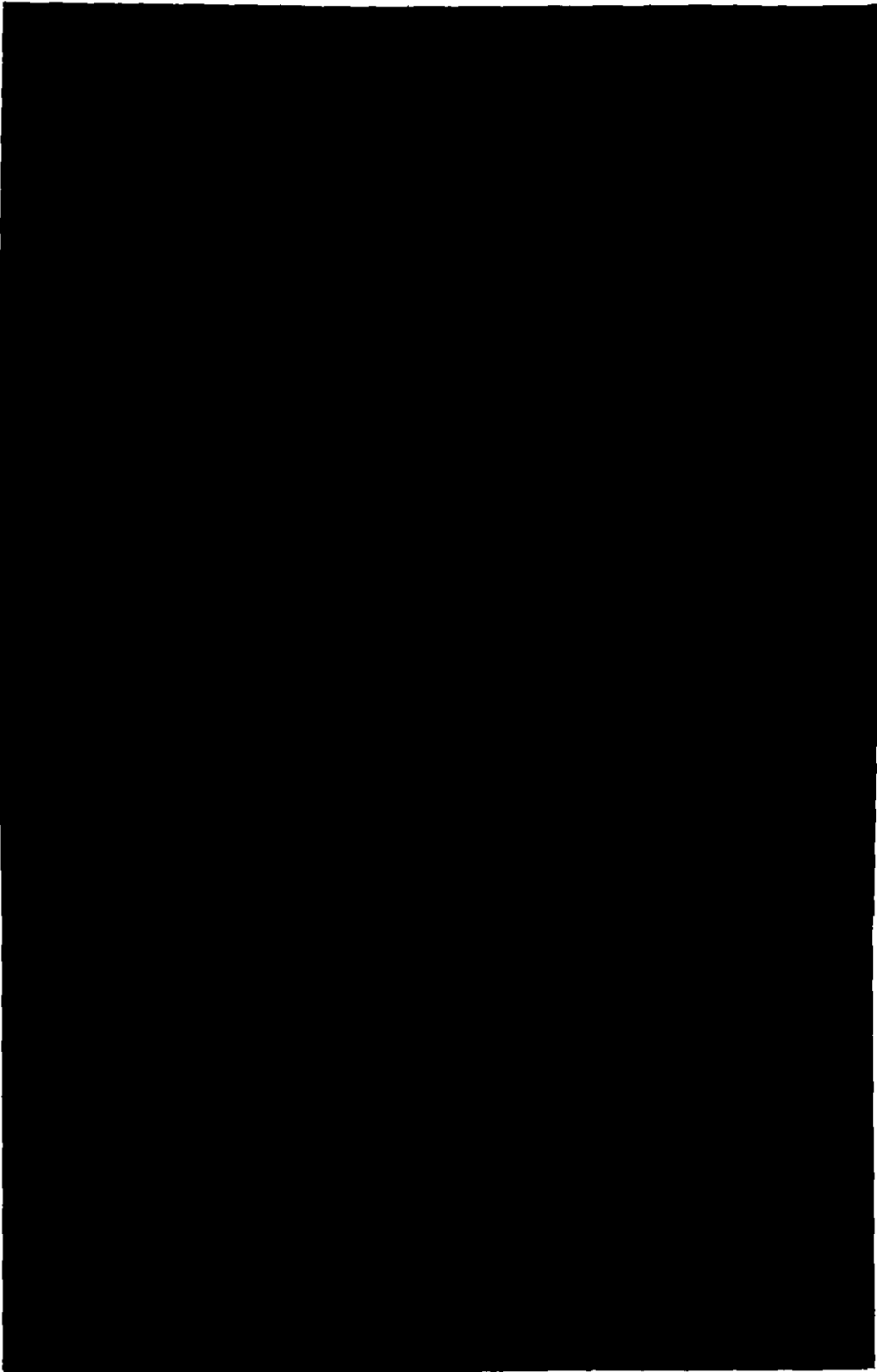
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1.5 (a)*

*Atomic Energy Act
1.5 (a)*

CARLIN will be a test with multiple objectives.

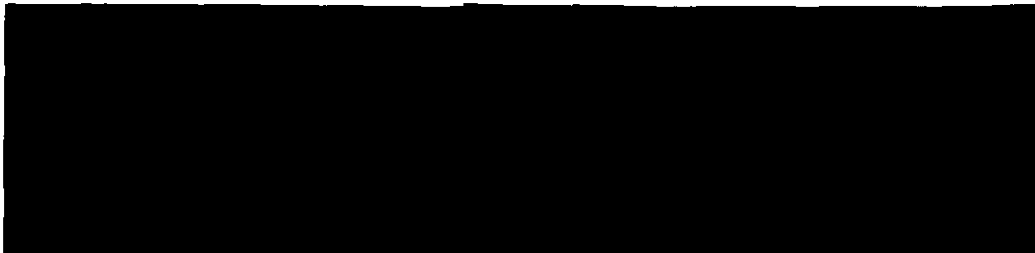


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Energy
1.5 (a)(g)

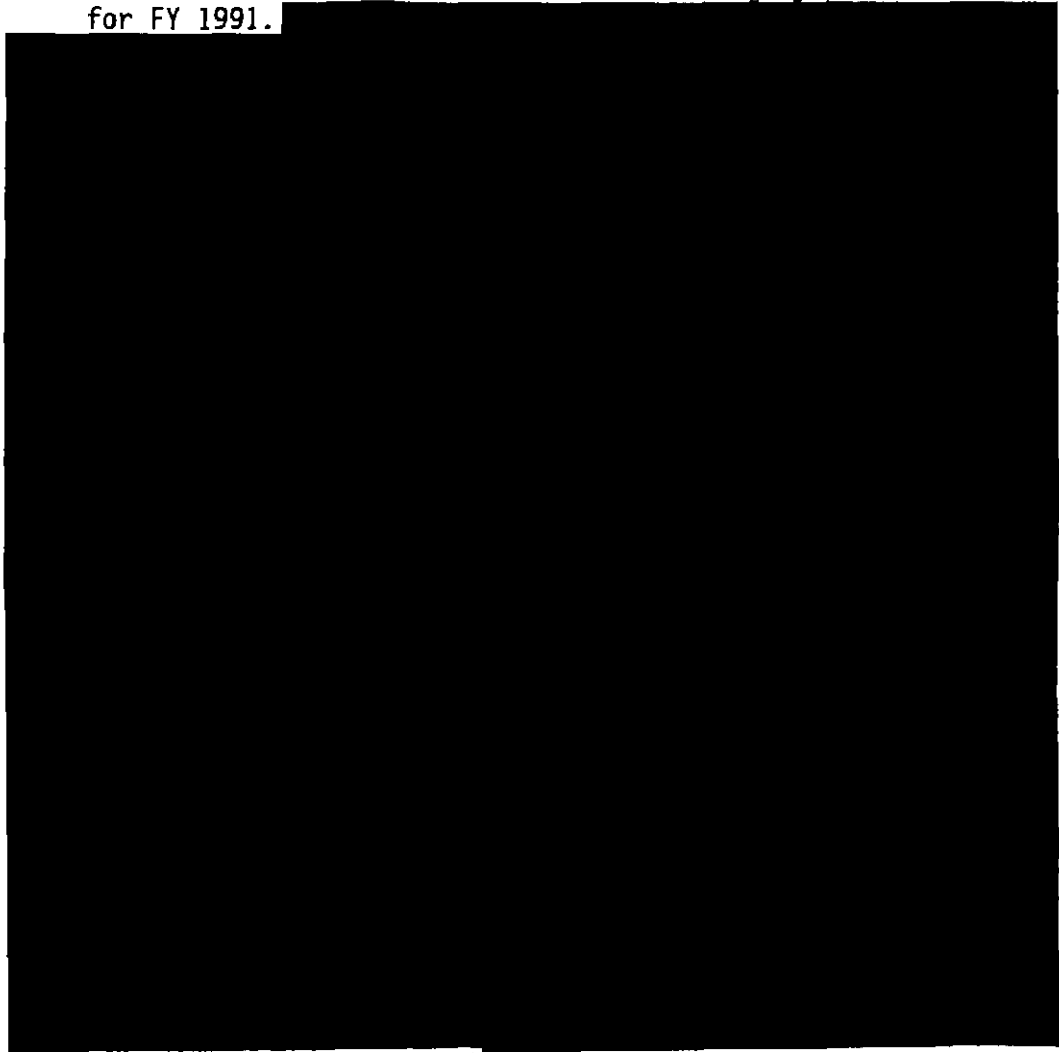
Atomic Energy Act



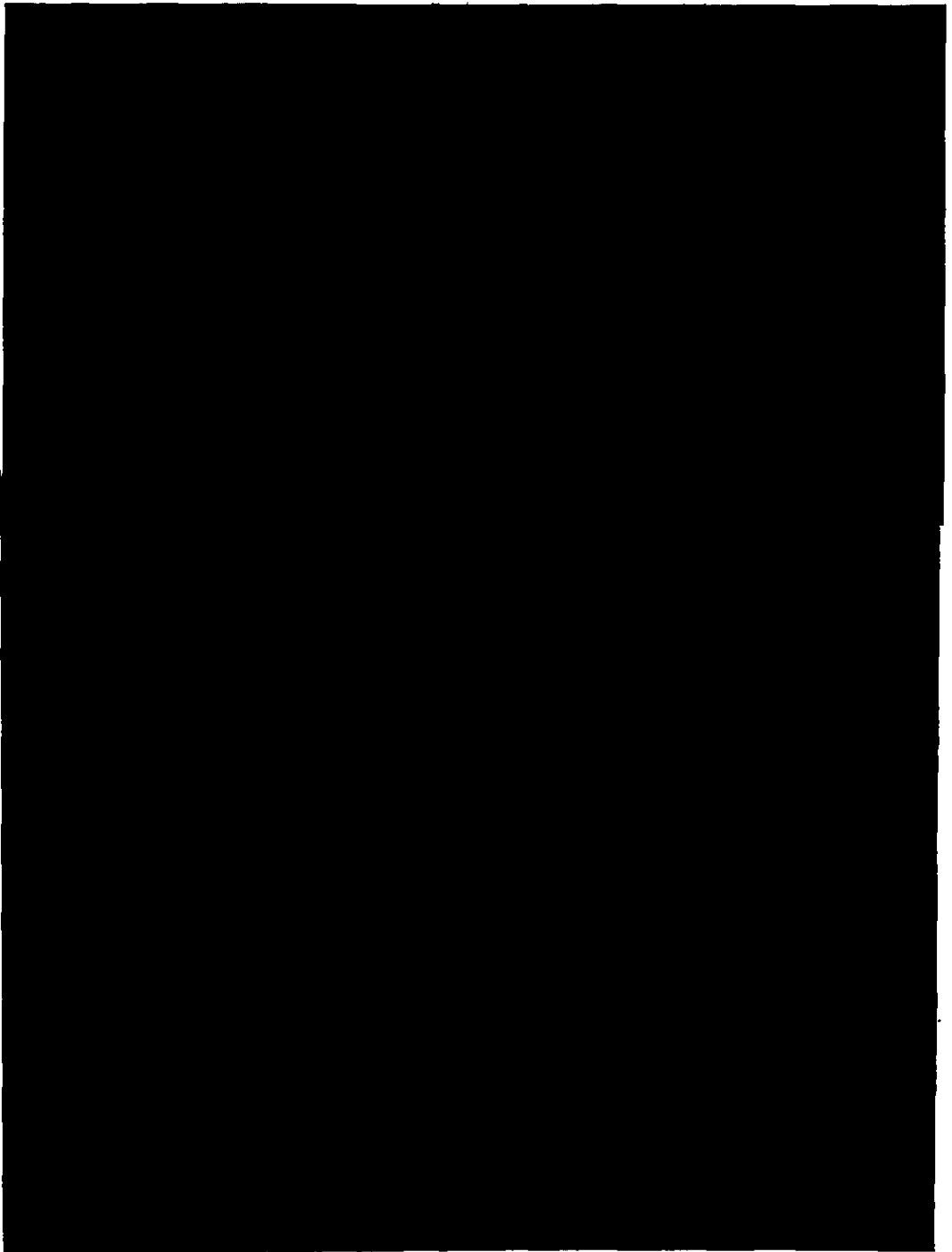
C. Nuclear Directed Energy Weapons

Tests in this category are designed to explore the feasibility of nuclear explosive driven, directed energy weapon concepts. Exploring this technology may provide a basis for assessing a possible Soviet counter defensive capability or a capability against the U.S. retaliatory deterrent. This work may also lead to a nuclear option for U.S. strategic defense, if needed. There are no dedicated tests in this category planned for FY 1991.

*Atomic Energy Act
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*Atomic
Energy Act
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II. Department of Defense Tests

The following test is designed and sponsored by the DOD. It will be conducted at the Nevada Test Site and will utilize a nuclear device supplied by the DOE.

Atomic Energy Act

<u>Program</u>	<u>Test Name</u>	<u>Design Yield (kt)</u>	<u>Quarter</u>	<u>Laboratory</u>
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Effects and Vulnerability	DISTANT ZENITH	[REDACTED]	Fourth	LANL
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DISTANT ZENITH will be the first in a series of planned horizontal line-of-sight effects tests to evaluate source region electromagnetic pulse phenomenology issues. There are significant uncertainties about the effects of prompt nuclear radiation on current and planned ground-based military systems and their electronic components. Requirements to quantify these uncertainties have increased as blast and thermal hardened mobile elements are included in tactical and strategic systems, such as the current Army tactical equipment inventory, the Small Intercontinental Ballistic Missile Hardened Mobile Launcher, and ground-based elements of Strategic Defense Initiative systems. Systems hardened to blast will be exposed to significant combined radiation/electromagnetic effects on electronic components. Benchmark data will be obtained on these effects, subsequent electronics response, and applicable hardening techniques for use in military systems analysis and design.

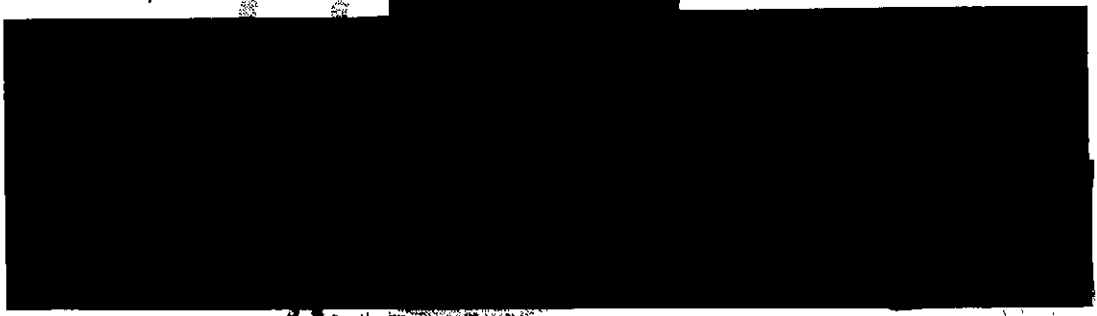
III. United Kingdom (U.K.) Tests

The government of the United Kingdom has requested the assistance of the United States in conducting the nuclear tests described below under the terms of the 1958 U.S./U.K. Agreement for Cooperation on the Uses of Atomic Energy for Mutual Defense Purposes. United States approval for the HOUSTON test was granted in response to a request with last year's program plan.

<u>Program</u>	<u>Test Name</u>	<u>Design Yield (kt)</u>	<u>Quarter</u>	<u>Laboratory</u>
Development	HOUSTON	[REDACTED]	First	LANL
Development	BRISTOL	[REDACTED]	FY 1992	LLNL

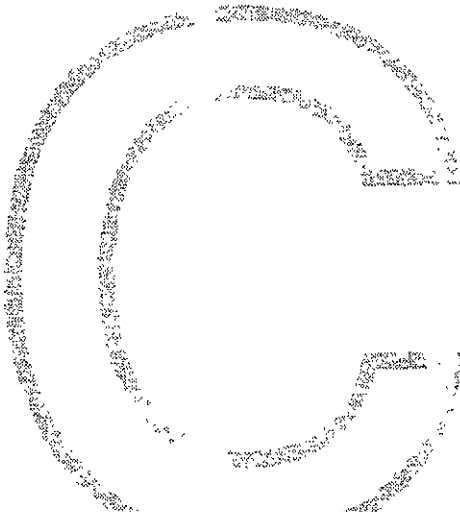
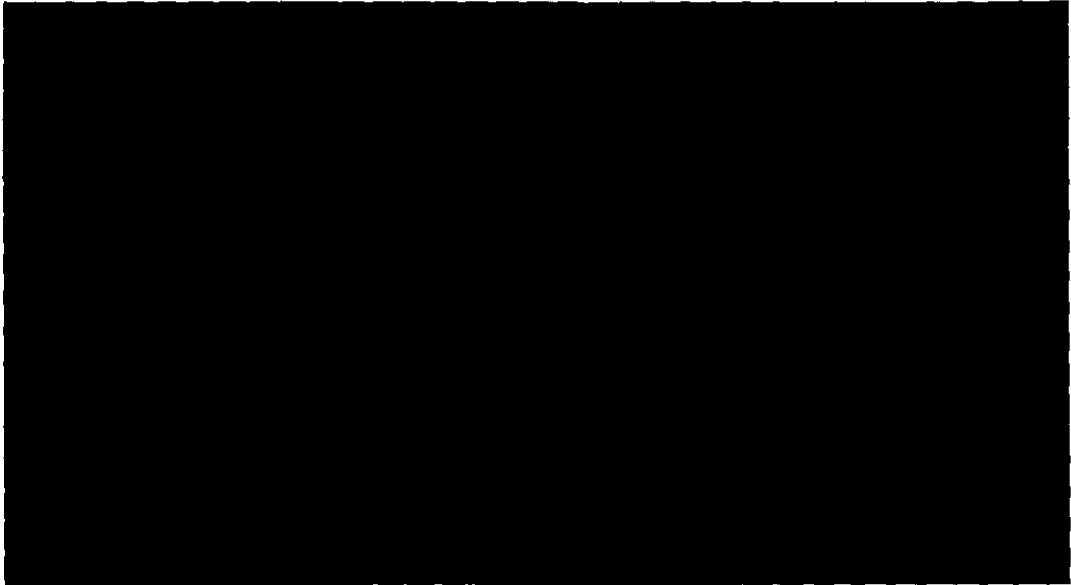
*Atomic Energy Act
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Attachment 2

FIVE-YEAR NUCLEAR TEST PLAN (U)

	<u>1991</u>	<u>1992*</u>	<u>1993*</u>	<u>1994*</u>	<u>1995*</u>
I. Department of Energy (DOE)					
A. Current/Near-term Stockpile	4	4	5	6	6
B. Advanced Development	3	3	3	4	4
C. Nuclear Directed Energy	0	2	2	2	2
D. Predictive Capability	1	3	5	5	6
(DOE Subtotal)	(8)	(12)	(15)	(17)	(18)
II. Department of Defense (DOD)	1	2	2	1	1
III. United Kingdom	1	1	1	1	1
Total	10	15	18	19	20

*The levels of DOE and DOD tests forecast in these years are based on currently perceived program needs but are not expected to be achievable under current funding projections.

Derivative Classifier:
D. Garcia, Director, DP-25

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