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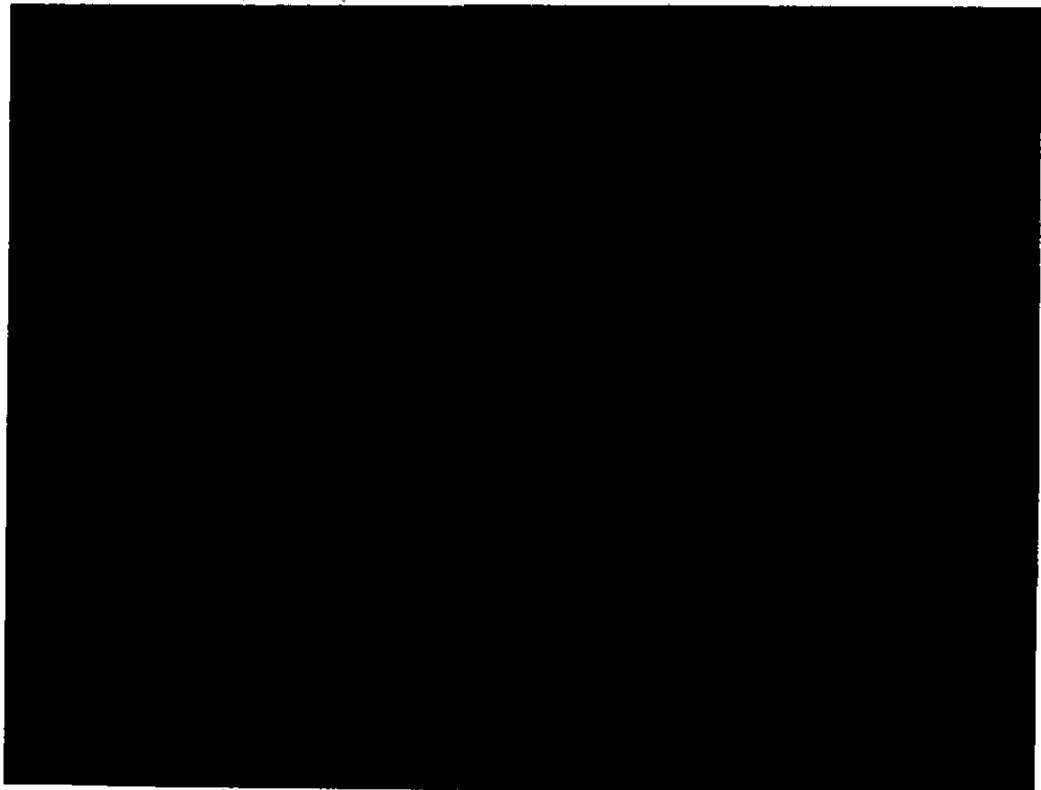
Attachment 1

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)*

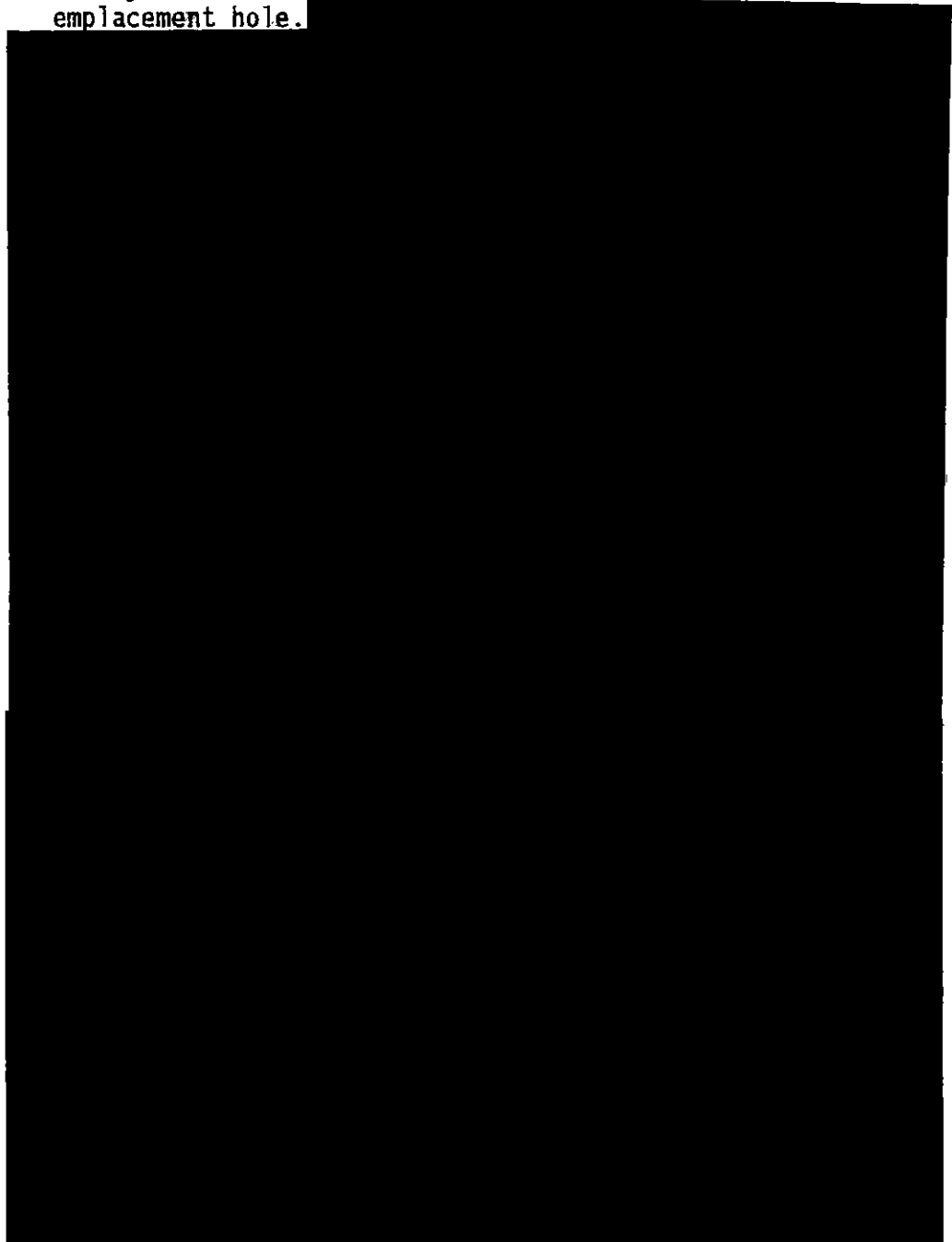
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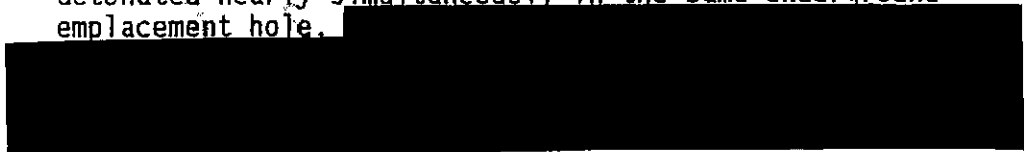
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COSO will include two nuclear devices to be detonated nearly simultaneously in the same underground emplacement hole.



*Atomic Energy Act
1.5 (g)*

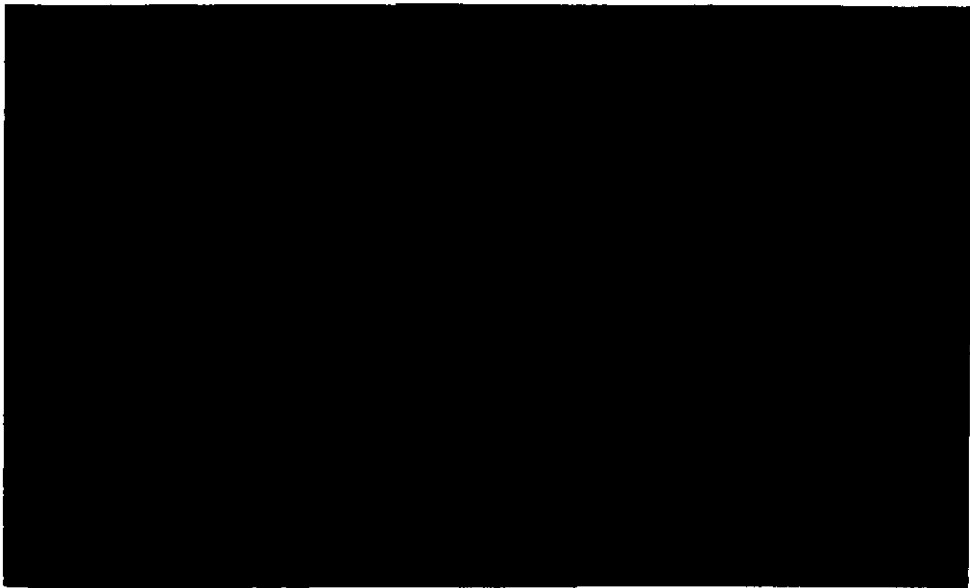
MONTELLO will include two nuclear devices that will be detonated nearly simultaneously in the same underground emplacement hole.



*Atomic Energy Act
1.5 (g)*

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*Atomic Energy Act
1.5 (g)*



B.

Atomic Energy Act



Program

Test Name

Quarter

Laboratory

*Atomic Energy Act
1.5 (a)*

CARLIN
LUBBOCK
HOYA
JUNCTION

Third
Third
Fourth
FY 1992

LLNL
LANL
LLNL
LANL

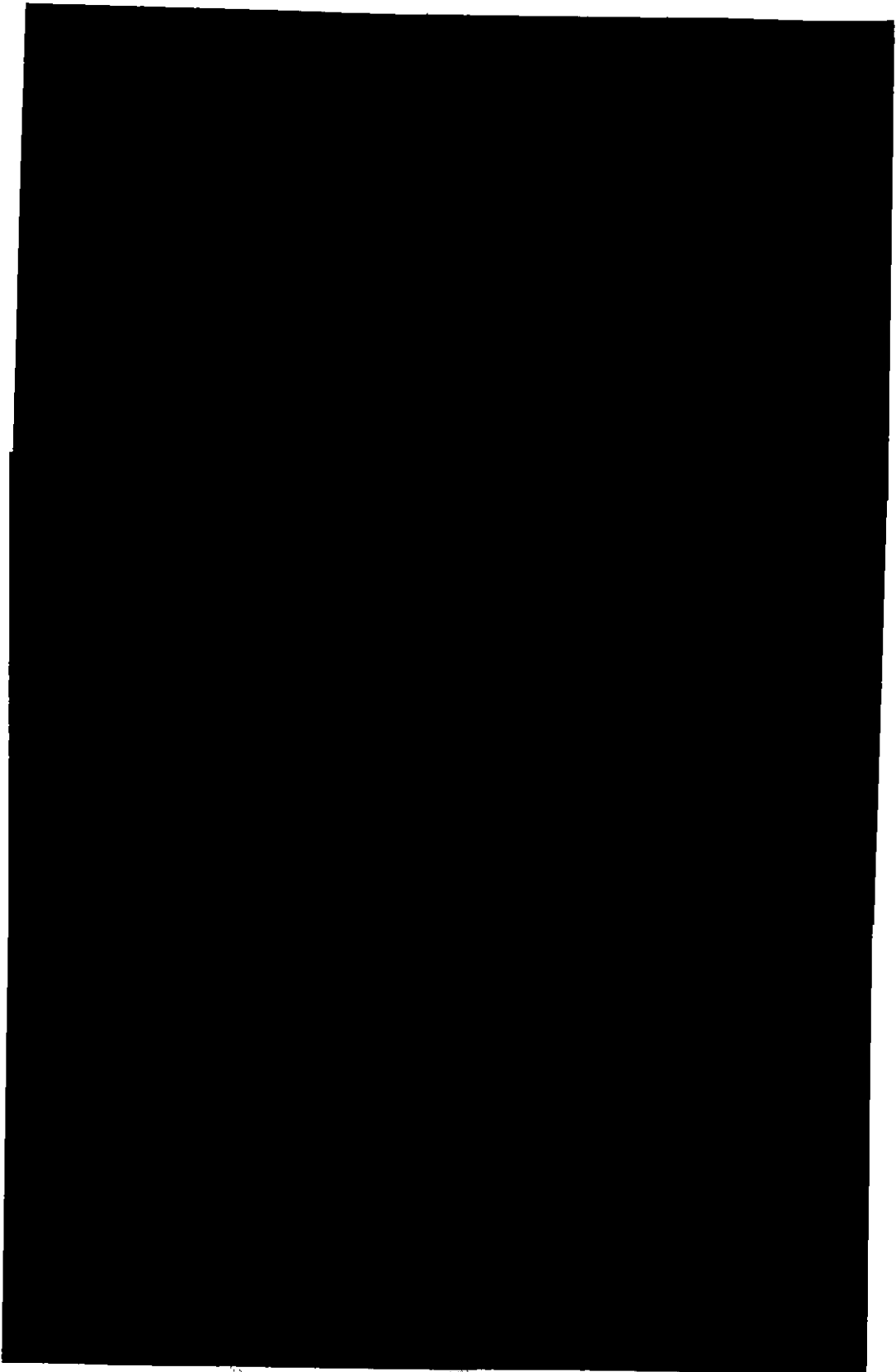
*Atomic Energy Act
1.5 (a)*

CARLIN will be a test with multiple objectives.

*Atomic Energy Act
1.5 (g)*



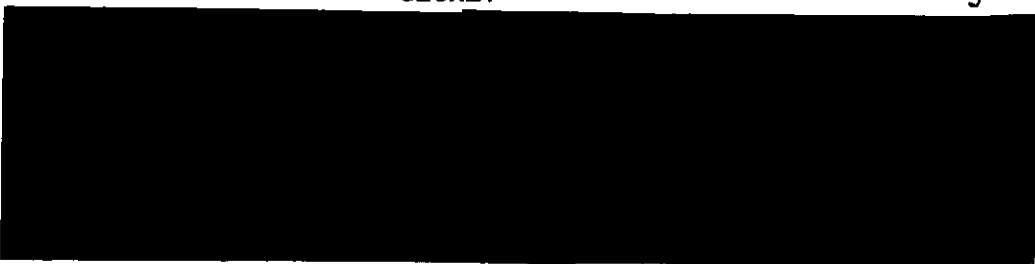
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Energy Act
1.5 (a) (g)*

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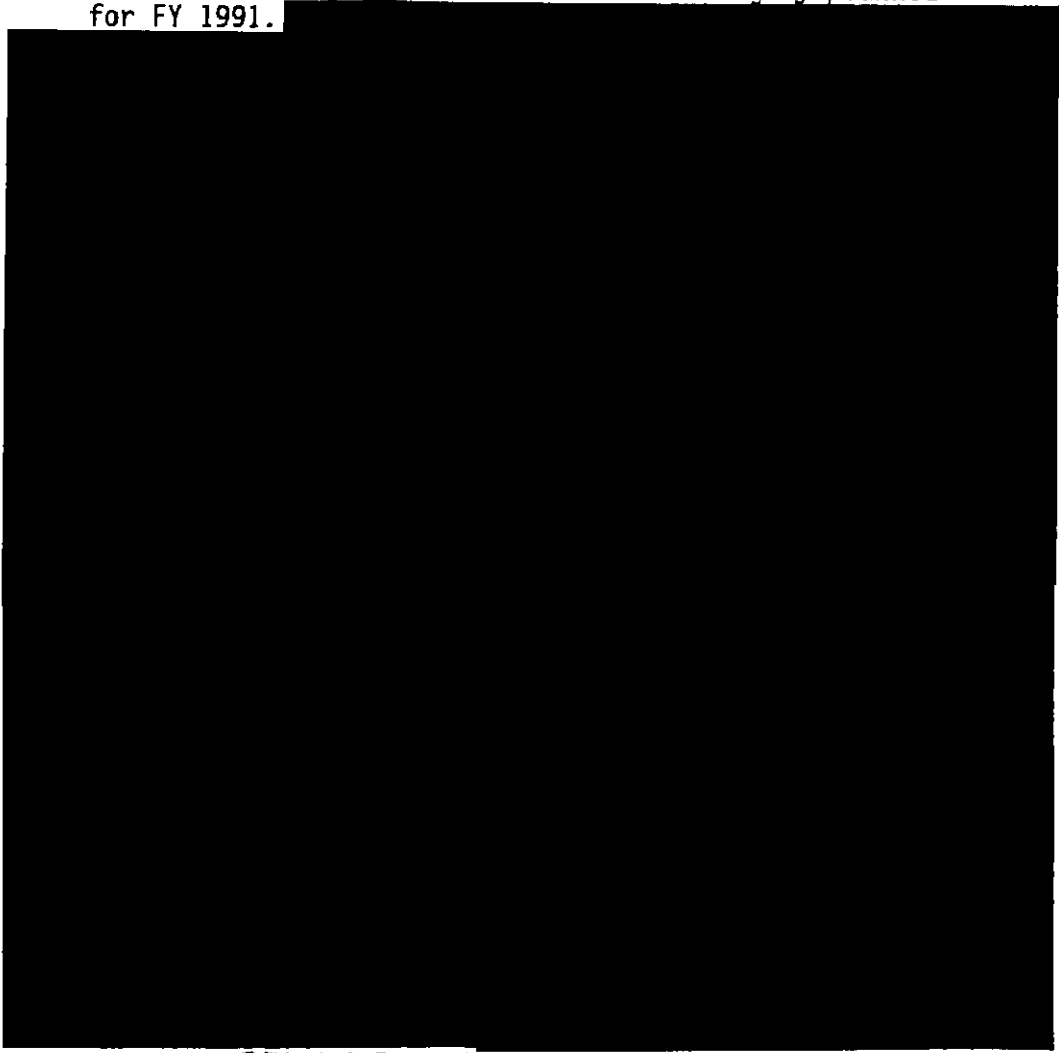
Atomic Energy Act



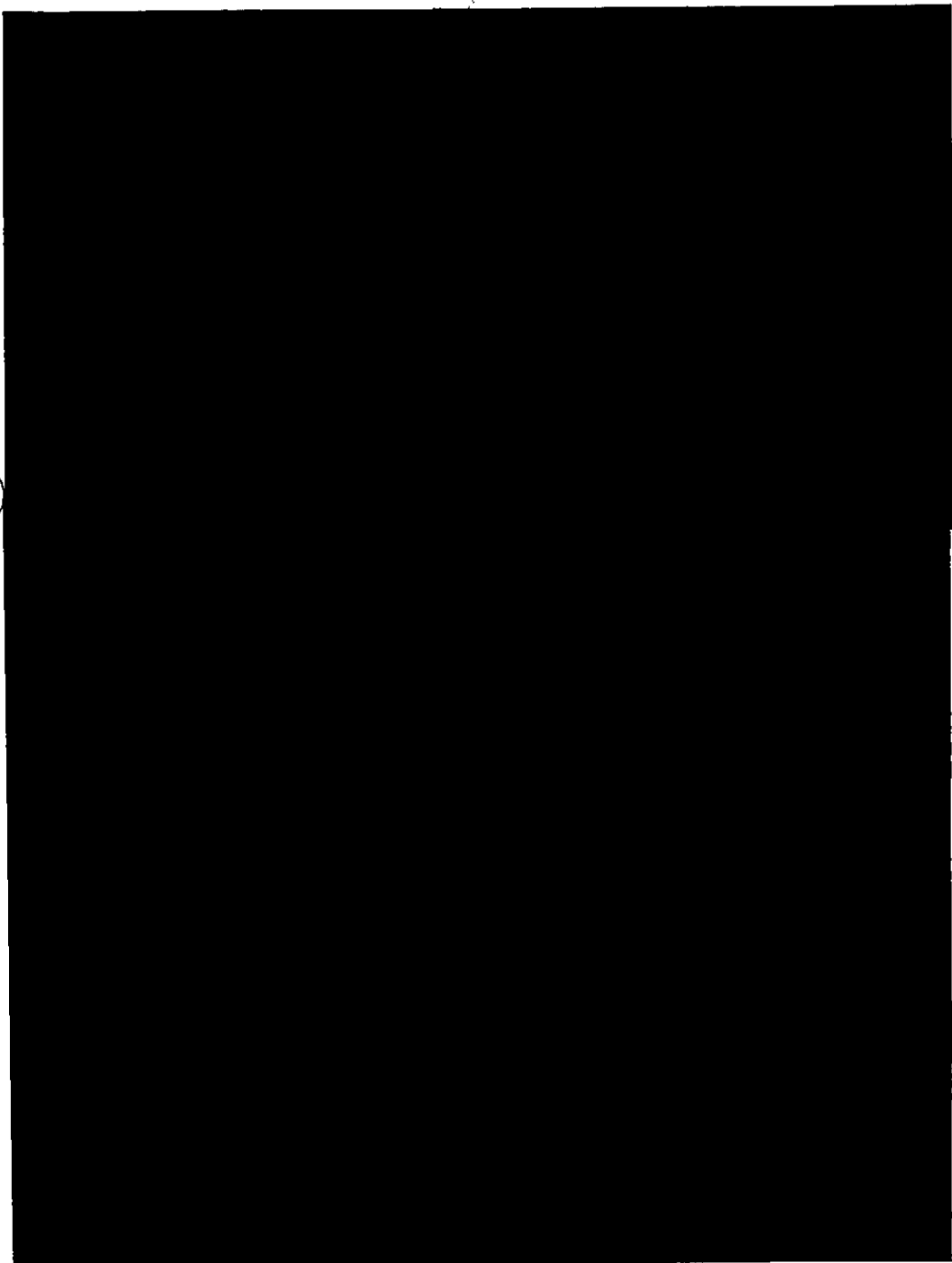
C. Nuclear Directed Energy Weapons

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
1.5(a)(g)*



Atomic
Energy Act
1.5 (a) (g)



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>
Effects and Vulnerability	DISTANT ZENITH	[REDACTED]	Fourth	LANL

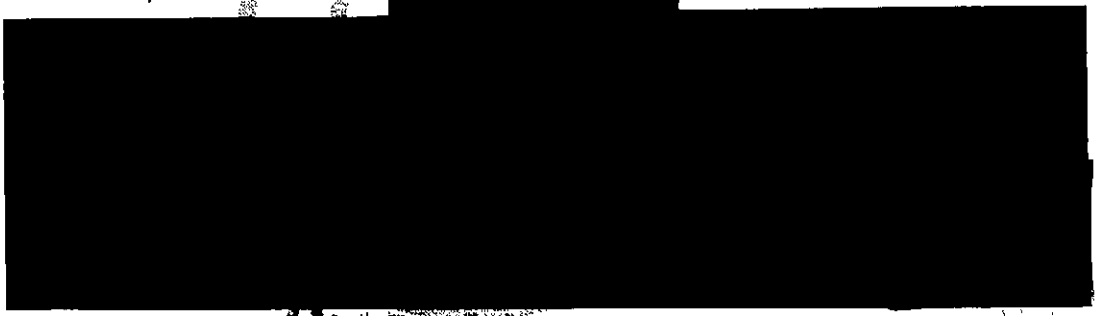
DISTANT ZENITH will be the first in a series of planned horizontal line-of-sight effects tests to evaluate source region electromagnetic pulse phenomenology issues. There are significant uncertainties about the effects of prompt nuclear radiation on current and planned ground-based military systems and 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.

*Atomic Energy Act
1.5 (b)*

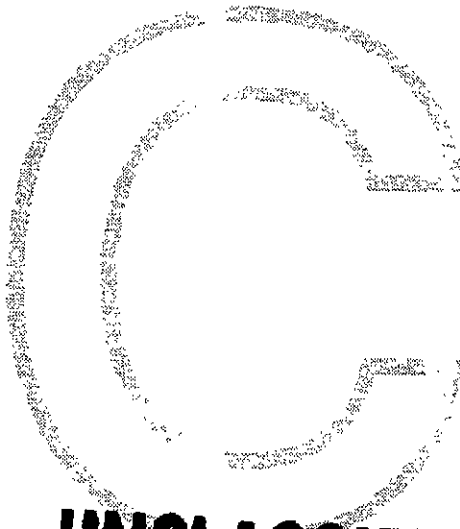
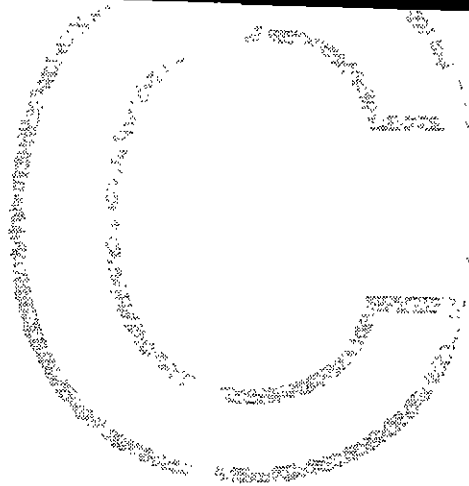
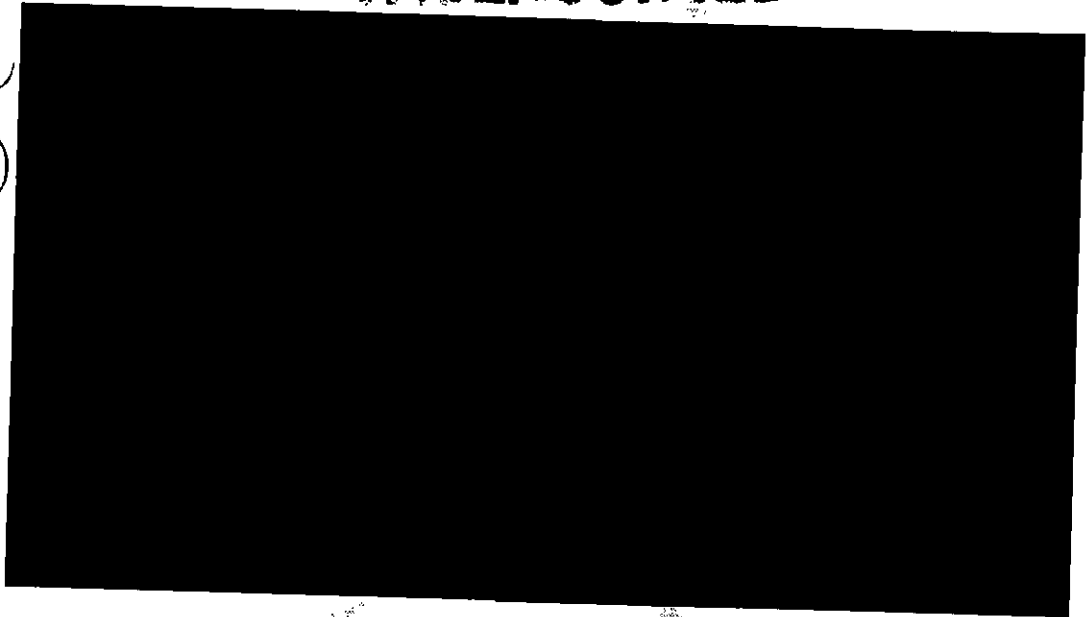
<u>Program</u>	<u>Test Name</u>	<u>Design Yield (kt)</u>	<u>Quarter</u>	<u>Laboratory</u>
Development	HOUSTON	[REDACTED]	First	LANL
Development	BRISTOL	[REDACTED]	FY 1992	LLNL



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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.

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