

~~UNCLASSIFIED~~ ~~SECRET~~

CLASSIFICATION CANCELLED
PER DOD REVIEW JAN 1973

FORM G-I

UNCLASSIFIED SECRET

1. Report on Initiator in Case No. _____ Copy No. _____

2. Marks of Identification _____

3. Active Charge by Calorimetry _____ curies on _____

Certified by _____

5. Approved for Shipment by _____ on _____

6. Approved for Use by _____ on _____

7. or Rejected and Returned by _____ on _____

8. because of _____

Date of Use _____ Carrier _____

10. Date of Destruction _____ by _____

11. Destruction Authorized by _____

Acceptance Tests

Nature	(a) Date	(b) Passed by:	(c) Neutrons/sec. after test	(d) Operator
--------	-------------	-------------------	------------------------------------	-----------------

12. Temperature Cycling _____

13. Vibration _____

Drop _____

15. Gas Tightness _____

16. Humidity _____

17. Rattle _____

Control Tests for Field Checks

Nature	(a) Date	(b) Initiator counts/min.	(c) No.	(d) Standard Source counts/min.	(e) Geometry	(f) Operator
--------	-------------	---------------------------------	------------	---------------------------------------	-----------------	-----------------

18. Gamma Count _____

19. Gamma Count _____

20. Neutron Count _____

21. Neutron Count _____

22. Temperature Difference _____ °C on _____

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Field Checks

23. Rattle OK'd by _____ on _____

24. Temp. Difference Top minus Bottom _____ °C by _____ on _____

	(a)	(b)	(c)	(d)	
Contamination:	Date	Swipe Count	Operator	Remarks	

25. _____

26. _____

27. _____

28. _____

	(a)	(b)	(c)	(d)	(e)	(f)
Gamma Counts:	Date	Initiator counts/min.	Standard No.	Source counts/min.	Geometry	Operator

30. _____

31. _____

32. _____

33. _____

34. _____

35. _____

36. _____

37. _____

38. _____

39. _____

	(a)	(b)	(c)	(d)	(e)	(f)
Neutron Count:	Date	Initiator counts/min.	Standard No.	Source counts/min.	Geometry	Operator

40. _____

41. _____

42. _____

43. _____

44. _____

45. _____

46. _____

Neutron Count (Continued)

	(a)	(b)	(c)	(d)	(e)	(f)
47.						
48.						
49.						
50.						
51.						
52.						
53.						
54.						
55.						
57.						
58.						
59.						
60.						
61.						
62.						
63.						

65. Gamma Count on Day of Final Assembly: Estimated: _____ Measured: _____

Assembly Data

66. Machine Dwg. No.	(b)	(c)	(d)	(e)	(f)
(a) Item		Material	Estimated Amount	Process	Date
67.					
68.					
69.					
70.					
71.					
72.					

22110548

DOE b(3)

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SECRET

- 73. _____
- 74. _____
- 75. _____
- 76. Complete Assembly Can _____ ng/cm²

- 77. Filling Gas: _____ mm Hg of _____
- 78. Max. Diameter _____ inches; Min. Diameter _____ inches; Mass _____ gms.
- 79. Background of Assembly on _____ neutrons/sec: _____
- 80. Background of Assembly on _____ neutrons/sec: _____
- 81. Assembly Approved by _____ on _____

447
45
U
5
1
1
2

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A84-019
17-4

October 24, 1980

F. Birch
L. H. Langer

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Schedule of Active Initiator Assemblies for January

UNIQUE DOCUMENT NUMBER: 200103770000

Copied From Los Alamos National Laboratory Archives

Since preliminary results indicate that design 3-1075-0-11 will be a satisfactory initiator for the gun, it is planned to proceed with surveillance tests on this model.

These tests will subject the assembled initiator to extremes of temperature, pressure and vibration. Measurements of neutron background before and after test and neutron activity after firing will be made.

Twelve tests are planned for these tests with following disposition as follows:

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L. M. Redman
NOV 3, 1980

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In addition, it is anticipated that from 1 to 2 series will be required for incidental initiator research during January.

[Handwritten signature]

L. H. Langer

cc: Oppenheimer
Forsum
Redman
File

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW DATE: 12-13-96
AUTHORITY: E.O. 13526, E.O. 13526, E.O. 13526
NAME: L. H. Langer
2ND REVIEW DATE: 3-27-97
AUTHORITY: ADD
NAME: AC/State

VERIFIED UNCLASSIFIED
NOV - 3 1980
CRD 6
SPECIAL RE-REVIEW
FINAL DETERMINATION
DATE: 2/6/87

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~~UNCLASSIFICATION SCHEDULES~~
~~NO. 3 OF 15 COPIES, SERIES 7~~

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15 March 1945

A84-019
17-4

Comdr F. A. Birch
R. W. Dodson
J. R. Oppenheimer

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UNIQUE DOCUMENT # SAC200103780000

This will confirm our agreement to incorporate initiators in the Little Boy assembly, but to reduce the activity of the sources.

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The advantages of reducing the amount of polonium are (1) that the background would be sure to fall in the reasonable tolerances and (2) that the amount needed for tests would be sufficiently reduced to leave some of our stock for the implosion initiator work.

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J. R. Oppenheimer

cc: Captain Parsons

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LWC NOV - 3 1980

CRD

SPECIAL RE-REVIEW
FINAL DETERMINATION
DATE: 2/6/87

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FINAL DETERMINATION
UNCLASSIFIED
L. M. Redman
NOV 3, 1980

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 2-7-86	2. OTHER (SPECIFY):
AUTHORITY: E.O. 12958	
NAME: [Signature]	
2ND REVIEW DATE: 5-27-87	
AUTHORITY: E.O. 12958	
NAME: [Signature]	

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890 A-84-01

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UNIQUE DOCUMENT # SAC 200103790000

December 12, 1946

E. E. Jette and D. E. Froman

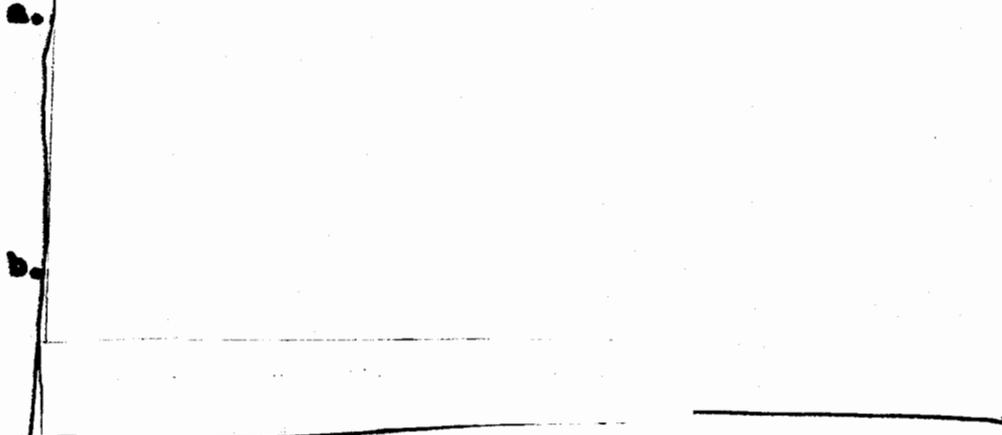
E. E. Bradbury

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- The problem of testing initiators has been brought to my attention in various Tech Board meetings and I wish to suggest the following attack: I will appoint an Initiator Committee to consider the entire problem and set up specific procedures along the following lines:



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- Such a design to be presented, together with a report on tests involving tests to destruction and vibration tests and a final recommendation on tests for initiators by 15 February, 1947.
- Recommendations for procedures on Monsanto prepared initiators.

- The Committee will consist of the following members; Froman, Chairman; MacMillan; Vier; Jette; and Holloway.

- I wish this committee to present to me an opinion as soon as possible on the following procedure to be instituted immediately on the present initiators: Discontinue all tests except nuclear tests, and a leak test; nuclear tests to be done by H-Division; Leak Test by CMR Division; an IA report to be prepared summarizing results of all thermal and mechanical tests done up to now and indicating the basis for considering these tests to have proved the stability of the initiator as manufactured, continued and repetition of this proof not considered necessary.

RESTRICTED DATA
This document contains Restricted data
and is to be controlled in accordance with
the Atomic Energy Act of 1954
and Executive Order 12958
and its amendments
and the provisions of 10 CFR 1.124
Administrative and Original Records

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

1ST REVIEW DATE: 12-12-24
 AUTHORITY: E.O. 12958, E.O. 13526, E.O. 13527, E.O. 13529, E.O. 13530, E.O. 13531, E.O. 13532, E.O. 13533, E.O. 13534, E.O. 13535, E.O. 13536, E.O. 13537, E.O. 13538, E.O. 13539, E.O. 13540, E.O. 13541, E.O. 13542, E.O. 13543, E.O. 13544, E.O. 13545, E.O. 13546, E.O. 13547, E.O. 13548, E.O. 13549, E.O. 13550, E.O. 13551, E.O. 13552, E.O. 13553, E.O. 13554, E.O. 13555, E.O. 13556, E.O. 13557, E.O. 13558, E.O. 13559, E.O. 13560, E.O. 13561, E.O. 13562, E.O. 13563, E.O. 13564, E.O. 13565, E.O. 13566, E.O. 13567, E.O. 13568, E.O. 13569, E.O. 13570, E.O. 13571, E.O. 13572, E.O. 13573, E.O. 13574, E.O. 13575, E.O. 13576, E.O. 13577, E.O. 13578, E.O. 13579, E.O. 13580, E.O. 13581, E.O. 13582, E.O. 13583, E.O. 13584, E.O. 13585, E.O. 13586, E.O. 13587, E.O. 13588, E.O. 13589, E.O. 13590, E.O. 13591, E.O. 13592, E.O. 13593, E.O. 13594, E.O. 13595, E.O. 13596, E.O. 13597, E.O. 13598, E.O. 13599, E.O. 13600, E.O. 13601, E.O. 13602, E.O. 13603, E.O. 13604, E.O. 13605, E.O. 13606, E.O. 13607, E.O. 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2ND REVIEW DATE: 3-27-76
 AUTHORITY: E.O. 12958, E.O. 13526, E.O. 13527, E.O. 13529, E.O. 13530, E.O. 13531, E.O. 13532, E.O. 13533, E.O. 13534, E.O. 13535, E.O. 13536, E.O. 13537, E.O. 13538, E.O. 13539, E.O. 13540, E.O. 13541, E.O. 13542, E.O. 13543, E.O. 13544, E.O. 13545, E.O. 13546, E.O. 13547, E.O. 13548, E.O. 13549, E.O. 13550, E.O. 13551, E.O. 13552, E.O. 13553, E.O. 13554, E.O. 13555, E.O. 13556, E.O. 13557, E.O. 13558, E.O. 13559, E.O. 13560, E.O. 13561, E.O. 13562, E.O. 13563, E.O. 13564, E.O. 13565, E.O. 13566, E.O. 13567, E.O. 13568, E.O. 13569, E.O. 13570, E.O. 13571, E.O. 13572, E.O. 13573, E.O. 13574, E.O. 13575, E.O. 13576, E.O. 13577, E.O. 13578, E.O. 13579, E.O. 13580, E.O. 13581, E.O. 13582, E.O. 13583, E.O. 13584, E.O. 13585, E.O. 13586, E.O. 13587, E.O. 13588, E.O. 13589, E.O. 13590, E.O. 13591, E.O. 13592, E.O. 13593, E.O. 13594, E.O. 13595, E.O. 13596, E.O. 13597, E.O. 13598, E.O. 13599, E.O. 13600, E.O. 13601, E.O. 13602, E.O. 13603, E.O. 13604, E.O. 13605, E.O. 13606, E.O. 13607, E.O. 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SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: 1/4/87

FINAL DETERMINATION
UNCLASSIFIED
L. M. Redman
NOV 3 1980

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PER DOC REVIEW JAN 1973

E. E. Bradbury
Director

cc: MacMillan, Vier

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PER DOE REVIEW JAN 1973

471.6
Initiation
X 32.2
Trinity

INTER-OFFICE MEMORANDUM UNCLASSIFIED

DATE: 8 November 1946

TO: H. E. Bradbury

FROM: Darol Froman

SUBJECT:

DOE A-84-019
b(3) 17.4

Smith to see

Intake F-45

UNIQUE DOCUMENT SAC 200,038,0000

SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: 1/14/87

There is on file in the M Division Office under Group M-3 a detailed report of the misfire experiment of 8 September at Trinity. This report is also being reproduced as LAMS 479. A study of the feasibility and safety of digging up the underground chamber in which this experiment was to be carried out has been made, and a decision in which you concurred was reached in collaboration with Messrs. Clark and Seeley of X Division. The decision was to leave the material in the underground chamber for a period of at least six months, more probably a year. At that time a review might be made as to the safety of excavation. Thus, we have prepared a report of the conditions in this underground chamber in order that possible excavators at some future date may be enabled to enter the chamber with a good understanding of what they will expect to see and the arrangements of equipment in it. This memorandum is simply to inform you that such a report exists and where it can be found in case of drastic changes in present personnel.

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1ST REVIEW DATE: 2-12-86	AUTHORITY: EAO/CD/CLADD
2ND REVIEW DATE: 3-27-86	AUTHORITY: [Signature]

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Darol Froman
Darol Froman
M Division Leader

DF/1

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INTER-OFFICE MEMORANDUM

~~UNCLASSIFIED~~
UNIQUE DOCUMENT # SAC200103820000

DATE September 18, 1946

TO: H. E. Bradbury
FROM: R. D. Richtmayer
SUBJECT:

~~CONFIDENTIAL~~

A-84-019
17-4

At recent meetings of the Technical Board there have arisen two questions concerning initiators and the purpose of this memorandum is to give tentative answers.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

1ST REVIEW DATE: 12/12/96
 AUTHORITY: E.O. 12958
 NAME: [Signature]
 2ND REVIEW DATE: 3/21/97
 AUTHORITY: ADP
 NAME: [Signature]

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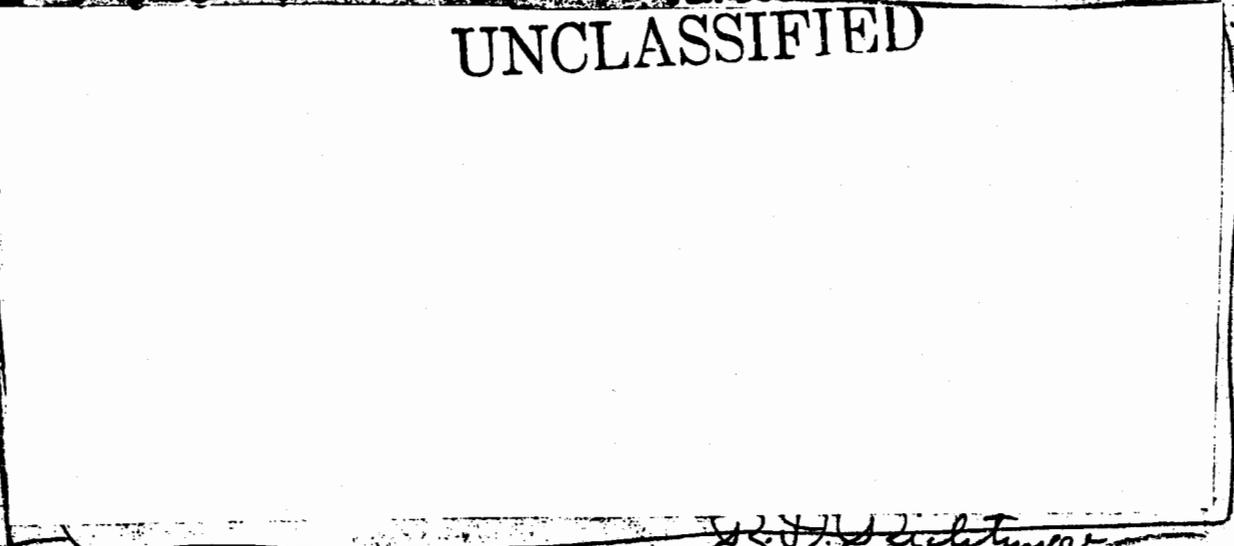
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2.

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DOE
b(3)

R. D. Richtmyer
R. D. Richtmyer

RDR/a

cc: Darol Froman
Marshall Holloway
Eric Jette

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September 9, 1946

~~CONFIDENTIAL~~

E. R. Jette
E. R. Jette, Acting Director
Gun Model Initiators

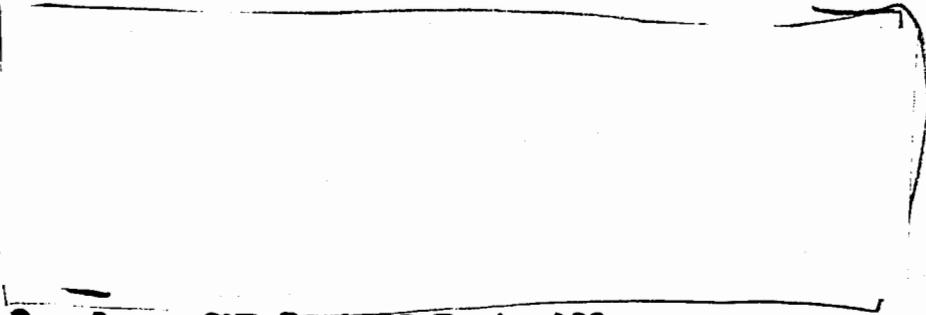
A-84-019
17-4

Init. Specs

UNIQUE DOCUMENT # SAC 200103830000

At the meeting of the Technical Board on
September 5, 1946, the following actions
were taken:

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2. Group CHR-5 at DP East will assume
responsibility for the assembly of
gun initiators.

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AUTHORITY: EAOC OR AOC (EADN)	2. CLASSIFICATION OBTAINED
NAME: P. ...	3. CLASSIFICATION EXEMPTED TO:
2ND REVIEW-DATE: 3-27-97	4. COORDINATE WITH:
AUTHORITY: ADP	5. CLASSIFICATION CANCELLED
NAME: R. Jette	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SP/DIR):

E. R. Jette
E. R. Jette
Acting Director

cc: Dwayne Vier
Darol Froman

SPECIAL RE-REVIEW
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19 May 1945

G. S. Smith

E. H. Dodson

UNIQUE DOCUMENT # SAC200103840000

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DOE
b(3)

I believe that this is consistent with the wishes of
the Initiator Advisory Committee as well as with the decisions of the Com-
puncher Committee.

Sincerely yours,

E. H. Dodson

- cc: Allison
- Bacher
- Bothe
- Kennedy
- Marshall
- Oppenheimer

SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: 1/14/87 *md*

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Mr. G. S. Smith

R. W. Dodson

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17 May 1945

A-84-019
17-4

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DOE
b(3)

I believe this corresponds with your present plans.

Sincerely yours,

R. W. Dodson

RWD:mlb

SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: 1/14/87 *mlb*

cc: Eacher
Bethe
Oppenheimer ✓

asked RWD to correct
5/19

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NAME: <i>DOE/MLB</i>	<input type="radio"/> 5. CLASSIFICATION CANCELLED
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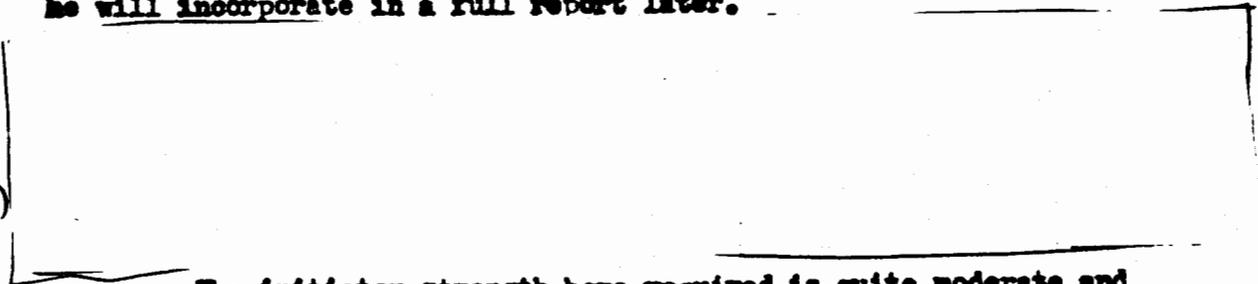
Comdr. Birch
L. M. Langer
Initiators

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Mr. L. Schiff called and gave the following information which he will incorporate in a full report later.



DOE
6.(3)

The initiator strength here required is quite moderate and I feel that these conditions are worth satisfying and can be accomplished with no additional effort.

L. M. Langer

SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: 1/14/87 *MLA*

cc: Oppenheimer
Dodson
File

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AUTHORITY: <u>CIAC (CADC) CADD</u>	1. CLASSIFICATION RETAINED
NAME: <u>E. A. Langer</u>	2. CLASSIFICATION CHANGED TO:
2ND REVIEW-DATE: <u>3-27-97</u>	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <u>FCR</u>	4. COORDINATE WITH:
NAME: <u>MLA</u>	5. CLASSIFICATION CANCELLED
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S. K. Allison
C. L. Critchfield
Size of Initiator

UNCLASSIFIED May 12, 1945

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This memorandum is in response to your verbal request to fix the external diameter of the modulated initiator for the solid gadget by May 14.

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DOE
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DOE
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3. CLASSIFICATION	4. AUTHORITY
5. DATE OF REVIEW	6. REVIEWER
7. REVIEW TYPE	8. COMMENTS
9. REVIEW DATE	10. REVIEWER
11. REVIEWER	12. COMMENTS
13. REVIEW DATE	14. REVIEWER
15. REVIEWER	16. COMMENTS

cc: **Bocher**
Bothe
Jette
Marrison
Sampson
Serdube
Wilson
File

Series B:
Boison
Fowler
Hansen
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IMPLOSION INITIATOR FABRICATION PROGRAM (U)

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May 11, 1945

R. W. Dodson ~~CONFIDENTIAL~~ DOCUMENT # SAC 200103880000

This is to report the present state of CM division activities on the problem of learning how to make implosion initiators.

1) In accordance with recommendations of the Initiator Advisory Committee top priority is put on finding out how to make urchins with the desired properties. It is believed that this will require close to 100% of the effort of CM-15 and CM-6. Second priority is given to G-10 jobs directly relating to urchin function.

DOE
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Dodson will judge such cases. No work is planned on RISKODENUS model.

2) CM-6, with Kolodney attached, is investigating preparation of protective coatings by evaporation, gas decomposition, and electrodeposition. Some delay in these studies has resulted from, a) delay in getting laboratory facilities for Kolodney and b) delay in assigning personnel to other responsibilities of CM-6.

DOE
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4) Three urchins per day are required for the adequate prosecution of the above studies. It is doubtful whether the shop can supply this number.

5) CM-2 is making metallographic studies of all Be stock.

DOE
b(3)

DOE
b(3)

- cc: Bacher
- Beths
- Critchfield
- Johns
- Kennedy
- Oppenheimer ✓
- Smith
- Weissman

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L. M. Redman
NOV 3, 1980

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May 1945

A-84-019
17-4

L. H. Langer

L. I. Schiff

Gun Sledge Initiators

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SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: 1/14/87

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L. I. Schiff

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1ST REVIEW-DATE: 12-12-96	DETERMINATION (CIRCLE NUMBER(S)) 1. CLASSIFICATION CHANGED TO: 2. CLASSIFICATION CHANGED TO: 3. CONTAINS NO DOE CLASSIFIED INFO 4. COORDINATE WITH: 5. CLASSIFICATION CANCELLED 6. CLASSIFIED INFO BRACKETED 7. OTHER (SPECIFY):
AUTHORITY: () DOC () ADC () ADD	
NAME: L. I. Schiff	
2ND REVIEW-DATE: 3-27-97	
AUTHORITY: ADD	
NAME: L. I. Schiff	

wrong

cc: Birch
Dodson
penholder
File

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L. M. Redman
NOV 5 1982

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FINAL DETERMINATION
CRD, DATE: 1/14/87

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MR. ROY T
FROM CLEAR CREEK MAY 4505/1305Z JRG/AEB
TO WASHINGTON LIAISON OFC WASH DC

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NOV 3, 1986
FA-1243

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[REDACTED]

DOE
6(3)

HAVE BEEN FORCED TO PUT SOME TALENT OF HIGH QUALITY ON THE
SOLUTION OF THIS PROBLEM PD TO MAJ GEN L R GROVES FROM J R
SPENHEIMER REF TA DASH ONE TWO FOUR THREE PD ONE MAN IN PARTICULAR
GMA KOLODNEY GMA WILL BE RESPONSIBLE FOR THE ELECTRO PLATING
TECHNIQUES PD THE REASON FOR INFORMING YOU OF THIS IS THAT KOLODNEY
HAD UNTIL TODAY THE RESPONSIBILITY OF SETTING UP THE METALLURGY
LINES AT OP SITE PD IT IS ESTIMATED THAT HIS LEAVING THIS WORK
WILL DELAY THE COMPLETION OF THESE LINES BY SEVERAL WEEKS PD
IN VIEW OF THE FACT THAT THIS IS NOT THE MOST PERILOUS ASPECT
OF THE OPERATION AND IN VIEW OF OUR ABSOLUTE DEPENDENCE ON THE PROMPT
SOLUTION OF THE INITIATOR PROBLEMS GMA BELIEVE THIS DECISION IS IN
THE BEST INTERESTS OF THE PROJECT AS A WHOLE

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END ANC
1305Z END AEB
END ANC

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AUTHORITY: PAC <input type="checkbox"/> ADC <input type="checkbox"/> ADD <input type="checkbox"/>	
NAME: Brown	
2ND REVIEW-DATE: 3-27-97	
APPROVED: [Signature]	
DATE: [Signature]	
NAME: [Signature]	

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EXCERPT — from Progress Report Number Nine of the Gadget Physics Division, April 15, 1945 (U)

UNIQUE DOCUMENT # SAC200103910000

The development and critical examination of modulated initiators has been continued by Group G-10. With direct proof of a modulated initiator almost impossible to obtain except in the firing of an actual gadget, efforts have been concentrated on carrying out partial proofs and studies of mechanism as near the final conditions as possible.

E
(3)

[Handwritten scribbles and markings]

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6. CLASSIFIED INFO BRACKETED	
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1ST REVIEW DATE: 12-12-76	AUTHORITY: DAPC BRAC DADD
NAME: <i>[Signature]</i>	2ND REVIEW DATE: 3-31-97
AUTHORITY: <i>[Signature]</i>	NAME: <i>[Signature]</i>

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[Handwritten scribbles]

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DATE: 1/14/87 *[Signature]*

within the
-31 and 32.
content: in
prohibited

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17-5

PER DOC REVIEW JAN. 1973

S. K. Allison

February 20, 1945

V. F. Weisskopf

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UNIQUE DOCUMENT # SAC200103920000

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Mr. Redman
NOV 3, 1980

DOE
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SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: 2/17/87

These densities were communicated to me by Mr. Smith. Note the unfavorable density of the 5% case, which explains the non-monotonous dependence of the values in the table.

The data is based on our present knowledge of scattering and absorption cross sections. Specially the later ones are rather uncertain. It seems, however, that there is no use to go below 0.5 eV.

1ST REVIEW DATE: 12-12-57
AUTHORITY: DAFC 1540C LIND
NAME: [redacted]
VIEW DATE: 3-28-57
UNIT: ADD: [redacted]

VFW mb
cc: Oppenheimer
C. S. Smith

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30 October 1946

A-84-019
17-5

R. S. Warner, Jr.

UNIQUE DOCUMENT # SAC 200103930000

Group Z-11

DOE
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(Meeting Taub, Wallborn, Russ, Mainhardt - 30 Oct. 1946)

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The metallurgy group at Los Alamos was informed of the latest changes in number of L-2-B units to be made as of this date.

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The Metallurgists have now several thousands pounds of the prepared powder on order; as yet it has not been delivered.

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DOE
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We did get the metallurgists to promise us three complete assemblies which will allow us to start assembly in the near future.

Group Z-11

DEPARTMENT OF ENERGY	
1ST REVIEW-DATE:	12-19-90
AUTHORITY:	<input type="checkbox"/> AAC <input type="checkbox"/> ASC <input type="checkbox"/> ADD
NAME:	<i>S. Brown</i>
2ND REVIEW-DATE:	3-22-97
AUTHORITY:	ADD
NAME:	<i>DC/226</i>

RM: TM
CG: 3

[Handwritten signature]

Administrative and Criminal Branch

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(The following ink note was added:

--Wil--

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R.S.W., Jr.

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A-84-019
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~~CONFIDENTIAL~~

12 December 1946

E. Jette, G&R Division

H. W. Russ, Z-11

LB AM

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INTERNAL DOCUMENT # SAC 200 10 394 000

DOE b(3)

It includes all the information which we are able to provide and which has been mutually agreed on at the present time.

1.

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4.

5. The finish grinding of the rings in "V" Shop should be initiated by Group Chr-6.

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6.

we plan to keep in close contact with this group in order to ascertain the probable delivery dates on the pieces required.

7. The total number of assemblies required by present plans has been reported to you orally.

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H. W. Russ
Group Leader, Z-11

Approved:

R. S. Warner, Jr.
R. S. Warner, Jr. G&R

Approved:

See attached memo with
M. G. Holloway

BWR:DM

CC: M. E. Bradbury
J. Taub
R. S. Warner, Jr.
M. G. Holloway
File

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AUTHORITY: OADR (DOC DADD)
NAME: <i>[Signature]</i>
2ND REVIEW DATE: 3-12-97
AUTHORITY: <i>[Signature]</i>
NAME: <i>[Signature]</i>

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L. M. Redman
NOV 3 1980
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FINAL DETERMINATION
CRD, DATE: JAN 14 1987

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H-04-01
17-5



27 1946
H. S. Warner, Jr.
H. W. Russ, Z-11
SAC, New Mexico

Jette Boy
DOE b(3)

12 November 1946

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UNIQUE DOCUMENT # SAC 200103950000

A meeting to discuss the above subject was held in Dr. Jette's office on 11 November 1946. In addition to Dr. Jette, the following persons were present: Dr. Walters, Lt. Col. Wilhoit, J. Taub (Group Leader G&R-6) and H. Russ.

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WITH INFORMATION FROM THE NUCLEAR ENERGY ACT OF 1954, CONCERNING DISCLOSURE SUBJECT TO ADMINISTRATIVE AND CRIMINAL SANCTIONS.

- b. Taub has on hand sufficient powder for the three assemblies to be completed by approximately 1 December, plus enough for three zero assemblies - total six.
- c. Orders have been placed with Carballoy for an additional 15,000 lbs. This material is to be delivered at the rate of 2,000 lbs. per month. Starting date of deliveries is uncertain. Assuming no trouble, this material is sufficient for 14 assemblies.
- d. If material is available, production of assemblies at Los Alamos could be stepped up to three per month, assuming full efficiency. This would correspond to the estimated rate at which they can be ground in the Los Alamos shops. This rate, or slightly lower, would probably be satisfactory providing the present total requirements remain unchanged.
- e. Dr. Walters suggested that powder might be obtainable from some other source than Carballoy for use at this project. Taub stated it would be necessary to make a test on any such powder before ordering; that a minimum of 100 lbs. would be necessary for a satisfactory test.

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3. Re. outside production, it is the opinion of Jette and Taub that this should be initiated only under the following conditions:

1. DETERMINATION
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M. Redman
NOV 3 1946

- a. That smaller pieces, of lower density would be acceptable.
- b. That a further delay in the total program would be acceptable, as it would take six to eight months to set up equipment, technique and procure material for production at an outside source.
- c. That a greater total quantity than that presently contemplated would be produced, in which case development of an outside source would be advantageous for future use.

In connection with this, Dr. Walters suggested that some companies might be anxious to develop different methods, and work on larger pieces, than is current practice in general tool production.

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FINAL DETERMINATION

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5. COORDINATE WITH:	
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7. OTHER (SPECIFY):	
1ST REVIEW DATE: 12-13-56	
AUTHORITY: OAC, EMD, CIAD	
NAME: R. H. ...	
2ND REVIEW DATE: 5-28-97	
AUTHORITY: ...	
NAME: ...	

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12 November 1946

R. S. Warner, Jr.

H. W. Russ, Z-11

DOE
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- Page 2 -

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4. It was concluded that:

- a. Minimum specifications on acceptable material should be obtained from M Division. (This has been requested in our memo to Holloway dated 4 November 1946).
- b. Taub will contact Col. Betts and H. Allen to see if delivery of current orders for powder can be speeded up.
- c. The entire problem should be presented to the Tech Board for discussion and recommendations.

H. W. Russ
H. W. Russ,
Group Leader, Z-11

HWR:TK

CC: E. Jette
J. Taub
Lt. Col. Wilhoit
Z Division, Los Alamos
File 2

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16 December 1946

Harlow W. Ross

UNIQUE DOCUMENT # SAC200103960000

A-84-019

Marshall G. Holloway

17-5

DOE
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Rather than approve directly your memorandum of 12 December to E. Jette, I prefer to add this note to each copy of your memo, since a number of the items in your memo are not subject to approval by M-Division.

DOE
b(3)

3. Your paragraphs 3 and 5 are satisfactory.

M. G. Holloway
M. G. Holloway

CC attached to each copy of subject memo.

TJB
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CRD, DATE: JAN 14 1987

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L. M. Reaman
NOV 3 1980

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AUTHORITY: SAC DCC EADD	
NAME: <i>Abrows</i>	
2ND REVIEW DATE: 3-28-97	
AUTHORITY: AOB	
NAME: <i>DOE Jette</i>	

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15 August 1946
4711
LP

10/29/46
GRZ

Classification changed

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CLASSIFICATION
PER DOC REVIEW JAN. 1973

Authority of the District Engineer
By *[Signature]*
Date *Dec 16 1946*

Commanding General
Manhattan Engineer District
Box 2610
Washington, D. C.

Dear Sir:

UNIQUE DOCUMENT #SAC.200103970000

Subject: Little Boy Procurement Program

In order to meet a new requirement for the stockpile of weapons, the number of Little Boy bombs has been increased.

DOE
b(3)

The Bureau of Ordnance supervised this program originally. The gun tubes and breech blocks were manufactured at the Naval Gun Factory, and most of the balance was made at the Naval Ordnance Plant, Centraline, Michigan.

Los Alamos has started on the inventory and preparation of components at Site Y to complete the initial figure for stockpile. The quantity of shop work required to put this material in shape proves to be more than our own shop facilities can handle. Therefore we are in the process of arranging to have the work completed at the Naval Ordnance Depot, Centraline, through the M.E.D. Detroit office operating on a purchase order basis directly with Centraline. In order to prepare for the possible increase in the number of weapons for stockpile, an educational order has been under discussion with the M.E.D. Detroit representative to insure the existence of tools, jigs, and fabrication drawings from the several vendors originally involved.

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1ST REVIEW DATE: 12-13-78	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: DAG BRAD CIND	1. CLASSIFICATION MAINTAINED
NAME: <i>[Signature]</i>	2. CLASSIFICATION CHANGED TO:
2ND REVIEW DATE: 3-20-97	3. CONFIDENTIAL
AUTHORITY: <i>[Signature]</i>	4. CONFIDENTIAL - FIVE
NAME: <i>[Signature]</i>	5. CLASSIFICATION CANCELLED
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Commanding General

- 2 -

23 October 1946

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It is now desired:

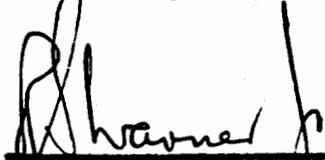
- 1 - that the Navy Department be asked to assume the entire burden for the fabrication of the fifteen new weapons,
- 2 - that the Navy Department advise whether Centraline is the proper activity to build the breech blocks required under the original requirement,
- 3 - that the Naval Ordnance Plant, Centraline, be made the final inspection and assembly point,

- 5 - that sufficient funds be allocated to the Navy Department to complete this production program by September 1948 at the latest.

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From the point of view of following up on the inspection and progress under the circumstances existing at Los Alamos, Sandia, and Detroit with respect to the limited "know how" available now, this activity would prefer that Naval Ordnance Depot, Centraline, be given as much detail production as the Bureau of Ordnance believes proper.

Sincerely yours,



 R. S. Warner, Jr.
 Z-Division

RSH:rah

cc: Capt. R. A. Larkin ✓
 Lt. Col. Wilhoyt
 Col. G. Dorland (2)
 Mr. H. W. Russ, Z-11
 1-File

(s) N. E. Bradbury

 N. E. Bradbury
 Director, Los Alamos

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November 1, 1946

A-84-019
17-5

Dr. Eric Jette

UNIQUE DOCUMENT # SAC 20010 3980000

Lt. Col. E. E. Wilhojt, Jr.

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PER DOC REVIEW JAN. 1973

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Attached hereto is a copy of the memorandum which was handed to you this date at the Tech Board Meeting. This copy is for you in accordance with our understanding that you will look into the matter and give us an answer at your earliest convenience.

FINAL DETERMINATION
UNCLASSIFIED
L. M. Goodman
NOV 3, 1980

E. E. Wilhojt, Jr.
Lt. Col., C.E.

EEW jr:SPK
Encl.

SPECIAL RE-REVIEW
FINAL DETERMINATION
CRD, DATE: JAN 14 1987

2/24/47 Telecon Henderson to Jette 2/24/47 brought assurance from Jette that Los Alamos facilities plus the outside facilities suggested in basic memo were already set up to produce at the required rate. Jette will notify us if there are any changes to this plan.
RTH 2/24/47

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1ST REVIEW-DATE: 12-13-90	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: EAC EAC EAC EAC	1. CLASSIFICATION RETAINED
NAME: R. James	2. CLASSIFIED INFO DECLASSIFIED TO:
2ND REVIEW-DATE: 3-28-97	3. CONTAINS NO MORE CLASSIFIED INFO
AUTHORITY: ADP	4. COMPLY WITH:
NAME: E. E. Wilhojt	5. CLASSIFICATION CANCELLED
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Anthony L. Pitts (TIME) A.M.
(Signature of authorizing official) P.M.

8. DATE
08/09/94

8. TO

G. W. JOHNSON, USDOE, AAO
W. A. WEINREICH (C. L. CIZAN), M&H
INFO: E. R. HANSON, DIR, NESD, USDOE, NV
T. D. CHANG (R. L. SAMUELSON), USDOE, OAK - L-526, LLNL
J. K. MARTINEZ, ESA-1, LANL
T. K. DEVLIN, L-125, LLNL
G. A. SANDERS (J. A. RICHARDSON), ORG. 12332, MS 0492, SNL/NM
H. FLAUGH, ESA-1, LANL
A. W. LUNDBERG, L-125, LLNL
C. J. ANDERSON, L-142, LLNL
J. O. HARRISON, ORG 5115, SNL/NM
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- ZEN/A. E. WHITEMAN, DIR., WQD, USDOE, AL
- ZEN/J. D. FINLEY, DIR., NESD, USDOE, AL

UNCLASSIFIED/N O N W D/NARR. PARA. SUBJECT: NUCLEAR EXPLOSIVE SAFETY MASTER STUDY OF B53 MECHANICAL DISASSEMBLY OPERATIONS AT THE USDOE PANTEX PLANT (U). PARA. THE SUBJECT NUCLEAR EXPLOSIVE MASTER STUDY WAS APPROVED ON MAY 27, 1994 WITH CONDITIONS AS SPECIFIED IN THE ATTACHMENT. THESE CONDITIONS HAVE BEEN SATISFIED AND B53 OPERATIONS WERE AUTHORIZED TO BEGIN JULY 20, 1994.

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DOE/OFFICE OF DECLASSIFICATION
P. T. GROVES, A.D.C. DATE:
PT Groves 01-06-97

~~UNCLASSIFIED~~

memorandum

DATE: May 27, 1994

REPLY TO
ATTN OF: DP-21 (J. Smith, 903-6723)SUBJECT: NUCLEAR EXPLOSIVE SAFETY STUDY OF THE B53 MECHANICAL DISASSEMBLY OPERATIONS
AT THE USDOE PANTEX PLANT.

TO: Manager, Albuquerque Operations Office

I approve the "Nuclear Explosive Safety Study of the B53 Mechanical Disassembly Operations at the USDOE Pantex Plant." My approval is based on Headquarters review and on your January 3, 1994, assurance that the five nuclear explosive safety standards have been met for the B53 operations described in the subject nuclear explosive safety study, and its references. Since my approval is based on completing the three recommendations and the three "issues resolved without findings" contained in the report, validation of the fulfillment of these actions is required before the B53 operations described in the report and references may begin. Please keep me informed on the progress of these six actions by including this information in your quarterly followup reports as required by the February 22, 1994, interim guidance memorandum.



Charles J. Beers, Jr.
Rear Admiral, U.S. Navy
Acting Deputy Assistant Secretary for
Military Application and
Stockpile Support
Defense Programs

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P. T. GROVES, A.D.C. DATE
Brown 01-06-98