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No date. Probably April 1995

DoD/DOE B53 Replacement Plan (U)

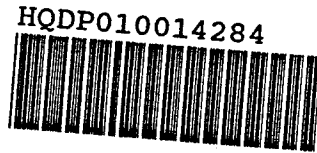
Presentation to
Professional Staff Members
HNSC and SASC,
HAC and SAC National Security/Defense and
Energy & Water Development Subcommittees

NATIONAL SECURITY INFORMATION
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CLASSIFIED BY:
Assistant Secretary of Defense (International Security Policy)
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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
FST REVIEW DATE: 4-16-95	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: DAOC DAAC EBAD	1. CLASSIFICATION RETAINED
NAME: [Signature]	2. CLASSIFICATION CHANGED TO:
2ND REVIEW DATE: 1-6-97	3. CONTAINS NO DOE CLASSIFIED INFO
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95-194
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DERIVATIVE CLASSIFIER: Jeff Underwood
(Name and Title)

Project Engineer
January 31, 1996
Page 1

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STOCKPILE SUPPORT
TEAM LEADER

COPY

Attachment 4
96SA20300006

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Program Requirement

- Approved by Nuclear Weapons Council
- DoD request program start in FY 1995

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Exemption 1
National Security
Information

Good afternoon. I am Dr. Everet Beckner, Principal Deputy Assistant Secretary for Defense Programs. I am here today to present the DOE portion of the plan to replace the aging B53 strategic bomb with a modified version of the B61-7 strategic bomb.

and the Nuclear Weapons Council has recently voted to direct a joint DoD/DOE effort to achieve this replacement. DOE supports this effort and has agreed to start in FY 1995, pending approval of this reprogramming.

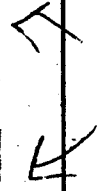
- Exemption 1
National Security
Information

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Need for Replacement

- **Oldest weapon in the stockpile**
 - Introduced 1962
- **Although safe, does not meet modern safety criteria**
- **Does not include modern use control features**

Exemption 3
Statutes



In addition to the [NPR] and the NWC vote, DoD and DOE have several reasons to replace the B53.

First, the B53 is the oldest weapon in the stockpile, having been introduced in 1962.

Second, although the weapon is safe and was manufactured in accordance with the safety principles in effect at the time, the B53 does not meet modern safety criteria for nuclear weapons.

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Design Concept

- **B61-7 Field Conversion Conceptual Design**
- **DOE manufacture conversion kits**
 - **Kansas City Plant**
 - **Oakridge Y-12 Plant**
- **DoD services perform field modification to existing B61-7 strategic bombs in the stockpile**
- **Retire B53 strategic bombs**

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Our plan to replace the B53 starts with a design concept to convert some existing B61-7 strategic bombs to meet the DoD requirements for this application.

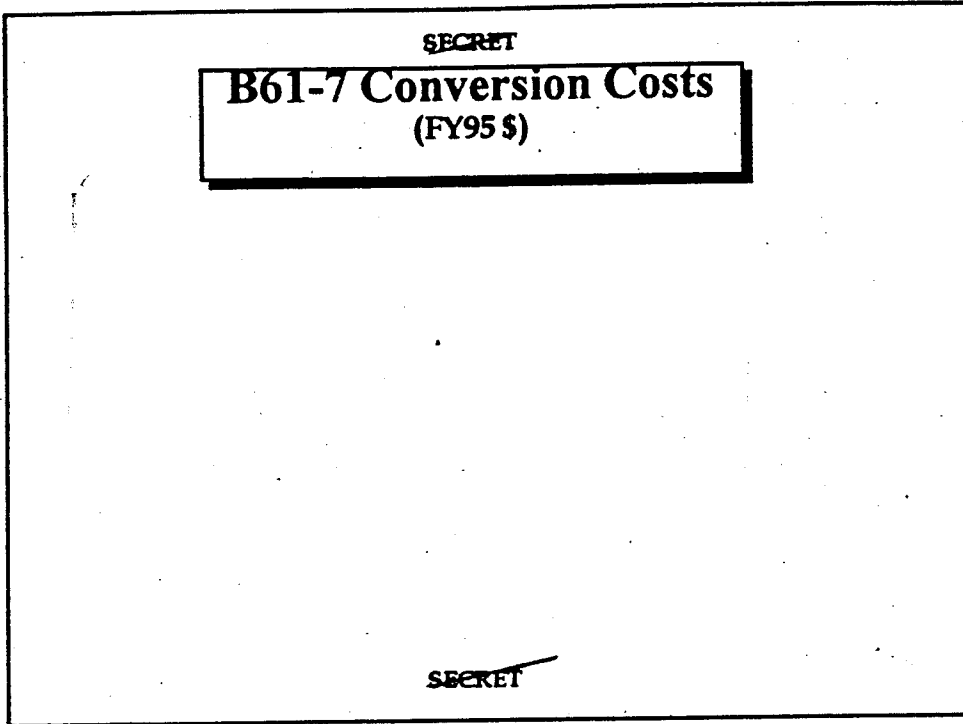
This plan, which DOE believes to be technically feasible, would not require new warhead production.

DOE would manufacture parts for conversion kits at its Nuclear Weapons Complex facilities, principally at the Kansas City Plant and at the Y-12 plant in Oakridge.

DOE would provide these conversion kits to the Services, which would perform the actual field modifications to existing B61-7 bombs.

Finally, the existing B53 bombs would be retired.

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Chart #5 shows the estimated DOE development cost in \$FY 95.

The Development and System cost estimates are for incremental efforts to support this replacement program and do not include approximately \$12.1 million in Full Time Employee (FTE) and labor costs, since these people would be occupied regardless.

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Development Costs

B61-7 Conversion Development Costs (in \$FY95 millions)	
Tests	
Purchases	
Total	

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suitable

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NOTE: Conversion costs shown above do not include Full Time Employee (FTE) costs. Full Time Employee (FTE)s would be employed regardless of this effort. (See below for FTE cost allocation)

Laboratory funds will be made available by reallocation within the Core Research and Development's Laboratory Stewardship Category, which supports those activities necessary to evaluate, maintain, and improve the current stockpile. Resources to be reallocated would have been directed towards:

lower priority studies and peer reviews on existing weapons systems, engineering development and technology demonstrations, and the development of intrinsic surety technology for possible future stockpile applications.

B61-7 Conversion Development Costs (in \$FY95 millions)	
Tests	
Purchases	
Total	
FTEs	
Total	

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suitable

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System Costs

System Costs (in \$FY95 millions)	
WR Kit Manufacturing	
Direct material	
Direct support	
Tooling	
Production Engineering	
Total WR Kit	
Stockpile Evaluation	
Direct material	
Direct support	
Total Evaluation	
Total	

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Note: These figures do not include labor costs, since the people would be working on other activities even if this effort does not proceed.

SEE NEXT NOTE PAGE FOR MORE NOTES ON THIS SLIDE

System Costs (in \$FY95 millions)	
WR Kit Manufacturing	
Direct material	
Direct support	
Tooling	
Production Engineering	
Total WR Kit	
Stockpile Evaluation	
Direct material	
Direct support	
Total Evaluation	
Total	
Direct labor - manuf.	
Direct labor - eval.	
Stockpile Maintenance	
LLCE Kits	
Total	

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