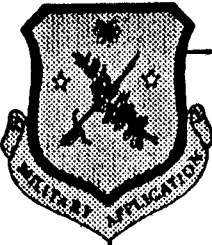


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2/8/96



DASMSS Weapons Panel



95-19h
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Freedom of Information Act
by Hans M. Kristensen

B53 Replacement Project (U)

HQDP010014276



DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW-DATE: <u>1-4-96</u>	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: <input type="checkbox"/> AOC <input type="checkbox"/> ADIS <input type="checkbox"/> ADD	<input checked="" type="radio"/> 1. CLASSIFICATION RETAINED
NAME: <u>100 Carpentier</u>	<input type="radio"/> 2. CLASSIFICATION CHANGED TO:
2ND REVIEW-DATE: <u>1-6-97</u>	<input type="radio"/> 3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <u>ADD</u>	<input type="radio"/> 4. COORDINATE WITH:
NAME: <u>100 Carpentier</u>	<input type="radio"/> 5. CLASSIFICATION CANCELLED
	<input type="radio"/> 6. CLASSIFIED INFO BRACKETED
	<input type="radio"/> 7. OTHER (SPECIFY):

AUG 1995?

ATM/Carpentier 10

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Administrative and Criminal Sanctions.
Handle as Restricted Data in Foreign
Dissemination Section 144.b., Atomic
Energy Act 1954.
Office of Nuclear Weapons Management

DERIVATIVE CLASSIFIER: [Signature]
(Name and Title)
Project Engineer

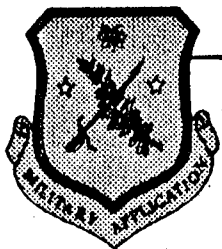
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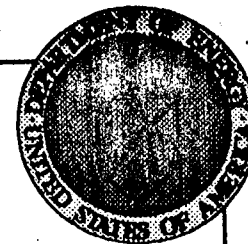
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DASMASS Weapons Panel



July 16, 1993

Correspondence from RADM Ellis to ATSD (AE)

- Requested assistance in obtaining DoD support to replace B53
- Cited absence of modern safety design criteria
- Recommended procedural safeguards until B53 retired
- Recommended retirement of B53 at earliest possible date.

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DASMASS Weapons Panel



December 10,
1993

B53 Strategic Bomb Alternatives Quick Look
Study

- Cited formal STRATCOM request for a program to replace the B53
- Identified options
- Provided baseline design of modified B61-7 with nose from the cancelled W61 program

*Exemption of
National Security
Information*
FORMER RESTRICTED DATA
Cleared Weapons Management
Manufacturing Discharge subject to

U.S. Department of Energy

Dissemination Section 144.b., Atomic
Energy Act 1954.

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DASMASS Weapons Panel

February 8, 1995



Nuclear Weapons Council approved replacement of the B53

- Same B61-7 to
 - aerodynamics
 - ballistics
 - electrical system
 - software

properties and interfaces

*Exemption 1
National Security
Information*

*DOE
b(2)*

*Exemption 3
Statute*

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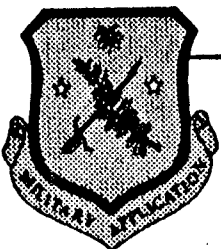
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(Name and Title)

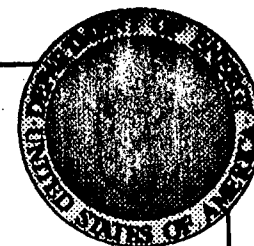
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DASMASS Weapons Panel



Conversion Assumptions

B61 conversion assumptions underlying NWC decision

DOE
b(3)

Exemption 3
Statute

- Conversions from B61-7 active stockpile ✓
- Use current manufacturing facilities
- Non-reversible field retrofit
- No additional testing for stockpile evaluation

Exemption 3
Statute

- Trainers and H-Gear not included (DoD funded)

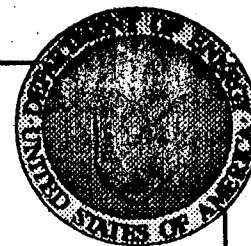
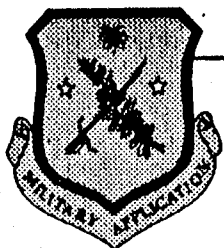
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Congressional Approvals

February, 1995 - Commenced briefs of congressional committees and their staffs

- HAC and SAC National Security/Defense and Energy and Water Development Subcommittees
- HNSC and SASC National Security/Defense and Energy and Water Development Subcommittees

April 18, 1995 - Reprogramming requests sent to congressional committees

July 18, 1995 - Final Congressional approvals received

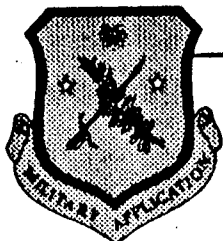
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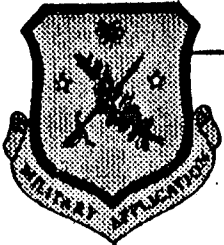
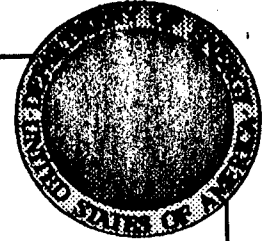
Program Actions

July 18, 1995 - ASTD (AE) requests DOE to join with DoD in project to replace B53 with modified B61-7

August 4, 1995 - DOE directs Albuquerque Operations Office and National Laboratories to participate in B53 replacement project

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DASMASS Weapons Panel



Program Direction

AL and Laboratory Requirements

Exemption 3
5 to 7(a)

DOE
b(2)
DOE
b(3)

- Retire B53 as B61-11s enter stockpile according to schedule determined jointly with the B53 POG
- AL to coordinate and lead day-to-day activities, working through its role in the B61 POG
- LANL and SNL participate according to their roles in POG and design responsibilities for the B61 bomb

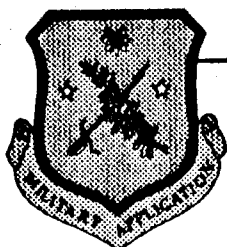
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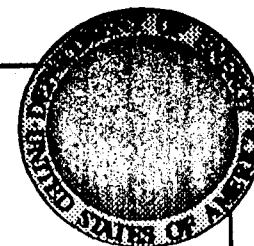
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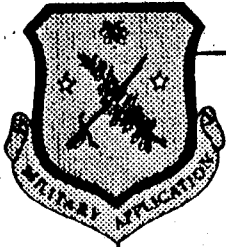
Program Direction (cont.)

AL and Laboratory Requirements

- **LLNL provide peer review**
- **Priorities**
 - **Military Characteristics and Stockpile to Target Sequence**
 - **Classification Guidelines**
- **If baseline design will not satisfy requirements, then advise Headquarters and get guidance before pursuing other design options**

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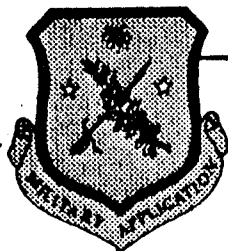
Program Direction (cont.)

AL and Laboratory Requirements

- Quarterly progress reports
 - Design/Development activities
 - Milestones to measure progress
 - Key design and production issues
- Reports to be shared with DoD

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Classification Guidelines

Classification guidelines pending promulgation of formal classification guidance

- Protect unique operational capabilities as SFRD until decision by original classification authority
- Use W61 classification guidance and CG-W-5 for other points

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~~Office of Nuclear Weapons Management
Classification Section 144.6 Atomic~~

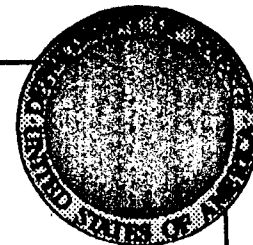
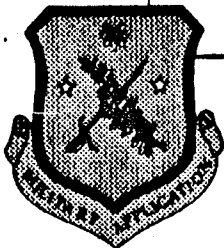
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Issues

- Military Characteristics and Stockpile to Target Sequence
- Y12 availability?
- Air Force vs. Lead Project Officers

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