[redacted]

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Privacy Act 1974 Exemption 6 (b)(6)

October 13, 2005

~~SECRET/RESTRICTED DATA~~

Reliable Replacement Warhead Study Goals

- Sustain long term confidence in a safe, secure and reliable stockpile
- Enable transformation to a responsive nuclear weapon infrastructure
- Adaptability to other intercontinental ballistic missile platforms

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Priorities

- Safety
- Security/Use Control
- Cost
- Certifiability
- Manufacturability
- Reliability
- Survivability
- Yield
- Longevity

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~~Unauthorized disclosure subject to Administrative and Criminal Sanctions. Handle as Restricted Data in Foreign Dissemination Section 144.b., Atomic Energy Act 1954.~~

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

1st REVIEW-DATE: 11/9/06	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: DD	1. CLASSIFICATION RETAINED
NAME: TY SANDERS	2. CLASSIFICATION CHANGED TO: FRD
2nd REVIEW-DATE: 1-22-07	3. CONTAINS NO DOE CLASSIFIED INFO
	4. COORDINATE WITH: DOD
AUTHORITY: DD	5. CLASSIFICATION CANCELED
NAME:	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

~~SECRET/RESTRICTED DATA~~ FRD

Baseline Case Navy Application

[redacted]

DOE 6(3)
E012958 Sec 6.2 FRD

- Safety and surety are critical
- Mk5 Reentry Body
- Mk4A AF&F
- IHE, Fire Resistant Pit, Detonation Safety

~~SECRET/RESTRICTED DATA~~

DNSA Declassified

~~FRD~~

Baseline Case Surety Issues

- Integrated surety system
- Contain as much as possible in the Reentry Body

[redacted] 1.4 (a) (g)

- System must be compatible with the submarine environment
- Surety system must provide maximum protection for the system in high threat environments

Baseline Case Alternatives

[redacted]

DOE b(3) Sec 6.2 FRD

1.4 (a)(c)(g)

Surety Theme

Surety theme must be an integrated system, addressing how the elements address threat and timeliness of threat and must be compatible with the submarine environment.

Laboratory Candidate Status

Both laboratories have presented credible candidates in both design and surety features

~~FRD~~

Evaluation Criteria

1. Robustness and certifiability of the nuclear design
2. The integrated capability and usability of the surety system
3. Impact on infrastructure

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Study Status

- RRW POG has been formed with supporting subcommittees
  - Kickoff Meeting: 11 May 2005
  - 2nd Meeting: 9 June 2005
  - 3rd Meeting: 23 August 2005 (LANL) and 25 August 2005 (LLNL)
  - 4th Meeting: 21 September 2005
- Draft Military Characteristics (MC) and Stockpile-to-Target Sequence (STS) documents prepared with STRATCOM interaction
- Study is on schedule to complete in 18 months

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Issues

- Expectations!
- Resources
- Budget for follow-on program
- End game following the study
  - Decision timeframe
  - Proof of Concept phase?

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Summary

- RRW POG established, organized and meeting often
- Study goals, strategy, and scope defined and understood
- Requirements are defined (MC, STS)
- Design competition underway

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