

3/15/99

# Stockpile Stewardship and Management Plan: First Annual Update

~~SAB 20011507 0000~~

## Redacted ÷ All Classified Information Removed



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| DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW                                    |                                    |
| 1ST REVIEW DATE: 3/1/95   | DETERMINATION (CIRCLE NUMBER(S))   |
| AUTHORITY: <input type="checkbox"/> AOC <input checked="" type="checkbox"/> ADD | 1. CLASSIFICATION RETAINED         |
| NAME: <i>Hansen</i>   | 2. CLASSIFICATION CHANGED TO:      |
| 2ND REVIEW DATE: 2/2/96   | 3. CONTAINS NO DOE CLASSIFIED INFO |
| AUTHORITY: <i>DP</i>  | 4. COORDINATE WITH:                |
| NAME: <i>S. V. West</i>   | 5. CLASSIFICATION CANCELLED        |
|   | 6. CLASSIFIED INFO BRACKETED       |
|   | 7. OTHER (SPECIFY):                |

Office of Defense Programs

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Derivative Classifier:  
Dr. Ruben Sanchez, DP-22

995A 20 B000 291

W76 (U)

- DESCRIPTION (U)
  - ◆ The W76 is the warhead is carried on the Mk4 RB on the Trident I C4 and the Trident II D5 Submarine Launched Ballistic Missiles (SLBMs). The Trident missiles carry multiple W76s. The W76 contains ENDS features and was produced from 1978 to 1987. (U)
- PLANNED ACTIVITIES (U)
  - ◆ Regular surveillance is scheduled annually with flight tests and laboratory tests including one NEP destructively examined every year. (U)
  - ◆ The upgraded 2F being designed will enhance measurement capability, reduce cost, and replace sunset technologies. (U)
  - ◆ Non-instrumented high fidelity 2Fs (26 total) (U)
    - Thirteen will be flown, one every two years, (U)
    - Remaining units will be hydrotested, one every six years, or (U)
    - The balance will be disassembled and inspected, and air bearing and modal tested. (U)
  - ◆ The Acorn and the replacement neutron generator are being developed to replace sunset technology, improve performance, and support the maintenance of the W76. (U)
  - ◆ Dual revalidation experiments, testing, and computational assessments are being conducted to assess the system's continued ability to be safe and reliable, function as intended, and conform to stated MCs and STS requirements. (U)
  - ◆ Dual revalidation experiments, testing, and computational assessments. (U)
  - ◆ Coordinated advanced development activities with the SLBM Warhead Protection Program. (U)
  - ◆ Support periodic assessments and certifications. (U)
- AREAS OF EMPHASIS (U)
  - ◆ Fuze modification evaluation to enable W76 to take advantage of higher accuracy of D5 missile. (U)
  - ◆ W76 Arming, Fuzing, and Firing (AF&F) replacement project. (U)
  - ◆ Dual revalidation. (U)
- ISSUES AND ACTIVITIES (U)
  - ◆ AF&F approaching stated end of design life. Actual occurrence of age-related defects is unpredictable. Study under way to implement capability of W88/Mk5 AF&F into W76/Mk4 volume. (U)
  - ◆ Propose four additional laboratory tests from the oldest population to determine aging effects. (U)

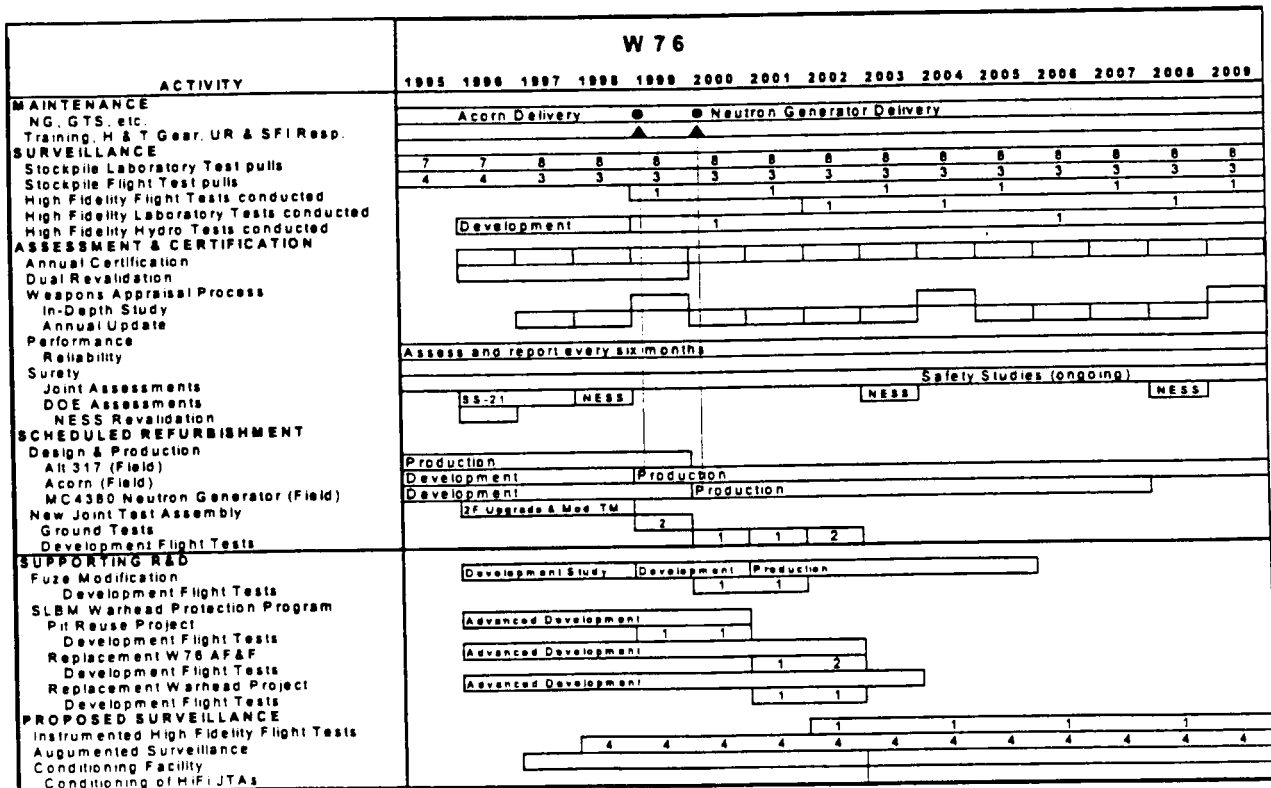


Figure 1-8 (U). W76 (U)