



Department of Energy
National Nuclear Security Administration
Washington, DC 20585

December 22, 2003

The Honorable John T. Conway
Chairman
Defense Nuclear Facilities Safety Board
625 Indiana Avenue, NW.
Suite 700
Washington, D.C. 20004

Dear Mr. Chairman:

In my letter of October 30, 2003, we committed to provide you by December 15, 2003; the site specific schedules required by Commitments 4.2.3.2 and 4.2.4.2 of the Implementation Plan for Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 2002-1. Commitment 4.2.3.2 requires the National Nuclear Security Administration (NNSA) to establish a schedule to complete the identification, selection, and assessment of safety system software and firmware at its nuclear facilities. Similarly, Commitment 4.2.4.2 requires NNSA to establish a schedule to complete the assessment of the processes in place to ensure that safety software currently used to support the analysis and design of its nuclear facilities is adequate.

We are providing you the attached site specific schedules for the two commitments developed in an NNSA workshop on November 13-14, 2003. We appreciate the contribution of Mr. Robert Quirk of the DNFSB staff to the success of the workshop.

We believe the schedules to be realistic. We will keep you informed of any changes, should they occur. If you have any questions, please contact me or have your staff contact Mr. Rabi Singh of my staff at (301) 903-5864.

Sincerely,

For Everett H. Beckner
Deputy Administrator
for Defense Programs

Enclosures

cc w/enclosures:
M. Whitaker, DR-1
B. Cook, EH-1



Software Quality Assurance Implementation Plan for DNFSB Recommendation 2002-1

Commitment 4.2.3.2: *Establish a schedule to complete the identification, selection, and assessment of safety system software and firmware at defense nuclear facilities*

Site Schedule	NV	Y12	SR	LANL	LLNL	SNL	PX
Complete Identification	12/01/03	12/01/03	11/30/03	04/15/04	01/31/04	12/31/03	01/31/04
Complete Selection	12/15/03	12/15/03	02/27/04	02/01/04	04/30/04	01/31/04	01/31/04
Complete Assessment <small>Note: Dates shown in many cases are for completion of initial or pilot assessments; schedules for follow-on assessments, where necessary, will be established following completion of the initial/pilot assessments.</small>	12/20/03 <small>(Pilot w assessment of BN systems)</small> 05/10/04 <small>(Assessment of LANL, LLNL, and SNL systems)</small> Assessments will be in two phases: 1) process and procedures; 2) implementation	01/30/04 <small>(One system only; results to determine the need for and scope of subsequent assessments)</small>	04/30/04 <small>(One system only; results to determine the need for and scope of subsequent assessments)</small>	04/15/04 <small>(First two assessments)</small> 12/31/04 <small>(Remaining assessments)</small>	08/31/04 <small>(Pilot assessment to be completed by 05/30/04)</small>	04/30/04 <small>(One system only; results to determine the need for and scope of subsequent assessments)</small>	03/31/04 <small>(1st system)</small> 09/30/04 <small>(2nd system)</small> <small>(Results to determine the need for and scope of subsequent assessments)</small>

NNSA objective: *for each site to be able to demonstrate that they have an adequate and institutionalized process for ensuring software quality assurance, including assessments to verify acceptable implementation.*

Software Quality Assurance Implementation Plan for DNFSB Recommendation 2002-1

Commitment 4.2.4.2: *Establish a schedule to complete the assessment of the processes in place to ensure that safety software currently used to support the analysis and design of defense nuclear facilities is adequate.*

Site Schedule	NV	Y12	SR	LANL	LLNL	SNL	PX
<p>Complete Assessment</p> <p>Note: Dates shown in many cases are for completion of initial or pilot assessments; schedules for follow-on assessments, where necessary, will be established following completion of the initial/pilot assessments.</p>	<p>03/01/04 (for BN)</p> <p>05/10/04 (for LANL, LLNL, and SNL)</p> <p>Assessments will be in two phases: 1) process and procedures; 2) implementation</p>	<p>04/30/04</p> <p>(Based on the results of this assessment, the need to assess additional software samples will be determined and scheduled accordingly)</p>	<p>05/30/04</p> <p>(Based on the results of this assessment, the need to assess additional software samples will be determined and scheduled accordingly)</p>	<p>04/15/04 (First two assessments)</p> <p>12/31/04 (Remaining assessments)</p>	<p>08/31/04</p> <p>(Pilot assessment to be completed by 05/30/04)</p>	<p>04/30/04</p> <p>(Based on the results of this assessment, the need to assess additional software samples will be determined and scheduled accordingly)</p>	<p>06/30/04</p> <p>(Based on the results of this assessment, the need to assess additional software samples will be determined and scheduled accordingly by 10/30/04)</p>

NNSA objective: *for each site to be able to demonstrate that they have an adequate and institutionalized process for ensuring software quality assurance, including assessments to verify acceptable implementation.*