

DESIGN REVIEW DOCUMENTATION – RESULTS

Title: NCSX QA Plan Peer Review **WP#:** N/A _____ (ENG-032)

Type of Review: ☒ **Peer** ☐ **CDR** ☐ **PDR** ☐ **FDR**

Cog Individual: Judy Malsbury **Date of Review:** 11/1/02

Review Board Members:	Invited attendees :	Other Attendees:
Chairperson Bob Simmons	QA Frank Malinowski	Jerry Levine
Brad Nels on, ORNL	Mike Williams	Rich Hawryluk
Wayne Reiersen	Jim Lyon, ORNL	
Judy Malsbury	Bill Brooke, ORNL	
	Hutch Neilson	

Regulatory Compliance

Items Reviewed:	Sat.	Unsat.	Comments
Appropriate requirements identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Development plans and schedules	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
Regulatory compliance including USQD and NEPA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Disposition of CHITS from previous reviews	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
Cost objectives	<input type="checkbox"/>	<input type="checkbox"/>	_____
Other review objectives addressed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

(attachment 4 of ENG-033)

SUMMARY OF RESULTS:

The Plan with minor changes is acceptable. 3 CHITs generated.

Disposition: [check one]

- ☒ **Acceptable**
- ☐ **Acceptable pending resolution of concerns-** CHITS identified above must be resolved prior to installation.
- ☐ **Incomplete** - Additional design work is required prior to another design review.

Chairperson Signature: _____ **Date:** 11/1/02

Distribution: Review Board Members, Operations Center, Cognizant Design Engineer, System Engineer(s), Attendees, QA, ES&H

<h2 style="margin: 0;">PPPL DESIGN REVIEW CHIT</h2>		WP # _____ (ENG-032) CHIT # <u>1</u>
COMPONENT/SUBSYSTEM/SYSTEM <u>NCSX QA Plan</u> COGNIZANT DESIGN ENGINEER <u>Judy Malsbury</u> DATE OF REVIEW <u>11/1/02</u>		<input checked="" type="checkbox"/> PEER <input type="checkbox"/> CDR <input type="checkbox"/> PDR <input type="checkbox"/> FDR
SUBJECT: (CHECK AS APPLICABLE) <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> REQUIREMENTS <input type="checkbox"/> ANALYSIS <input type="checkbox"/> PERFORMANCE </div> <div> <input type="checkbox"/> HARDWARE <input type="checkbox"/> CONFIGURATION <input type="checkbox"/> RELIABILITY/MAINTAINABILITY </div> <div> <input type="checkbox"/> SAFETY <input type="checkbox"/> COST/SCHEDULE <input type="checkbox"/> QUALITY </div> </div>		
COMMENT/CONCERN/RECOMMENDATION <p>How will PPPL Design Work meet or exceed requirements of ENG-032? Issue is application of WP form in design process. Rich is worried about audit findings, etc. - reinventing the wheel.</p> <p style="text-align: right;">ORIGINATOR <u>Neilson</u></p> <p style="text-align: right;">NAME/ORGANIZATION <u>NCSX</u></p>		
REVIEW BOARD COMMENT/RECOMMENDATION (Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reason - do not simply state "out-of-scope or N/A" without explaining.) <p>Hutch to review ENG-032 for applicability to design.</p> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> CONCUR <input type="checkbox"/> DISAGREE <input checked="" type="checkbox"/> OTHER </div> <div> CHAIRPERSON <u>R. T. Simmons</u> DATE: <u>11/1/02</u> </div> </div>		
COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION: <p>ENG-032, in the Applicability section, states the following: "It {the Work Planning Form} is not directly applicable to work performed during the conceptual or design phases," However, NCSX plans to incorporate the key issues identified by the WP form in the Systems Engineering Management Plan and Confirmation Management Process. No changes to the QA Plan are required.</p> <p style="text-align: right;">SIGNATURE <u>Judy Malsbury</u> DATE: <u>2/25/03</u></p>		
RESPONSIBLE RLM REVIEW <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> APPROVE COG DISPOSITION <input type="checkbox"/> DISAPPROVE COG DISPOSITION </div> <div> SIGNATURE _____ DATE: _____ </div> </div>		
COGNIZANT DESIGN ENGINEER CLOSE-OUT Sign when action required by disposition is complete. <p style="text-align: right;">SIGNATURE _____ DATE: _____</p>		

<h2 style="margin: 0;">PPPL DESIGN REVIEW CHIT</h2>		WP # _____ (ENG-032) CHIT # 2
COMPONENT/SUBSYSTEM/SYSTEM <u>NCSX QA Plan</u> COGNIZANT DESIGN ENGINEER <u>Judy Malsbury</u> DATE OF REVIEW <u>11/1/02</u>		<input checked="" type="checkbox"/> PEER <input type="checkbox"/> CDR <input type="checkbox"/> PDR <input type="checkbox"/> FDR
SUBJECT: (CHECK AS APPLICABLE) <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> REQUIREMENTS <input type="checkbox"/> ANALYSIS <input type="checkbox"/> PERFORMANCE </div> <div> <input type="checkbox"/> HARDWARE <input type="checkbox"/> CONFIGURATION <input type="checkbox"/> RELIABILITY/MAINTAINABILITY </div> <div> <input type="checkbox"/> SAFETY <input type="checkbox"/> COST/SCHEDULE <input type="checkbox"/> QUALITY </div> </div>		
COMMENT/CONCERN/RECOMMENDATION Engineering standards - need a side-by-side review of PPPL/ORNL Engineering Standards. Need closure with PPPL and ORNL participants. <div style="text-align: right; margin-right: 100px;"> ORIGINATOR <u>Reiersen</u> NAME/ORGANIZATION <u>NCSX</u> </div>		
REVIEW BOARD COMMENT/RECOMMENDATION (Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reason - do not simply state "out-of-scope or N/A" without explaining.) Wayne to do. <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> CONCUR <input type="checkbox"/> DISAGREE <input type="checkbox"/> OTHER </div> <div style="text-align: right;"> CHAIRPERSON <u>R. T. Simmons</u> DATE: <u>11/1/02</u> </div> </div>		
COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION: <div style="text-align: right; margin-right: 100px;"> SIGNATURE _____ DATE: _____ </div>		
RESPONSIBLE RLM REVIEW <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> APPROVE COG DISPOSITION <input type="checkbox"/> DISAPPROVE COG DISPOSITION </div> <div> SIGNATURE _____ DATE: _____ </div> </div>		
COGNIZANT DESIGN ENGINEER CLOSE-OUT Sign when action required by disposition is complete. <div style="text-align: right; margin-right: 100px;"> SIGNATURE _____ DATE: _____ </div>		

<h2 style="margin: 0;">PPPL DESIGN REVIEW CHIT</h2>		WP # _____ (ENG-032) CHIT # <u>3</u>
COMPONENT/SUBSYSTEM/SYSTEM <u>NCSX QA Plan</u> COGNIZANT DESIGN ENGINEER <u>Judy Malsbury</u> DATE OF REVIEW <u>11/1/02</u>		<input checked="" type="checkbox"/> PEER <input type="checkbox"/> CDR <input type="checkbox"/> PDR <input type="checkbox"/> FDR
SUBJECT: (CHECK AS APPLICABLE) <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> REQUIREMENTS <input type="checkbox"/> ANALYSIS <input type="checkbox"/> PERFORMANCE </div> <div> <input type="checkbox"/> HARDWARE <input type="checkbox"/> CONFIGURATION <input type="checkbox"/> RELIABILITY/MAINTAINABILITY </div> <div> <input type="checkbox"/> SAFETY <input type="checkbox"/> COST/SCHEDULE <input checked="" type="checkbox"/> QUALITY </div> </div>		
COMMENT/CONCERN/RECOMMENDATION <p>ORNL procedures are being expanded from calibration to the more general "field procedures." No field work is planned now. If ORNL field work does become needed, adequate time to ensure review will be needed.</p> <p style="text-align: right;">ORIGINATOR <u>Malinowski</u></p> <p style="text-align: right;">NAME/ORGANIZATION <u>QA</u></p>		
REVIEW BOARD COMMENT/RECOMMENDATION (Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reason - do not simply state "out-of-scope or N/A" without explaining.) <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <input checked="" type="checkbox"/> CONCUR <input type="checkbox"/> DISAGREE <input type="checkbox"/> OTHER </div> <div> CHAIRPERSON <u>R. T. Simmons</u> DATE: <u>11/1/02</u> </div> </div>		
COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION: <p>Project management agreed to provide advanced notice, if needed.</p> <p style="text-align: right;">SIGNATURE <u>Judy Malsbury</u> DATE: <u>11/1/02</u></p>		
RESPONSIBLE RLM REVIEW <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> APPROVE COG DISPOSITION <input type="checkbox"/> DISAPPROVE COG DISPOSITION </div> <div> SIGNATURE _____ DATE: _____ </div> </div>		
COGNIZANT DESIGN ENGINEER CLOSE-OUT Sign when action required by disposition is complete. <p style="text-align: right;">SIGNATURE _____ DATE: _____</p>		