DESIGN REVIEW DOCUMENTATION – RESULTS

Title: <u>NCSX Data Management Plan</u>   **WP#:** ___ _____ (ENG-032)

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

Cog Individual: <u>Robert Simmons</u>   **Date of Review:** <u>March 31, 2003</u>

Review Board Members: **Invited attendees :**   **Other Attendees:**

Chairperson J. Malsbury   Rod Templon   Larry Sutton

               Wayne Reiersen   Hutch Neilson   Phil Heitzenroeder

               Bob Simmons   Mike Cole (ORNL)   Gary Oliaro

               Tom Brown   Frank Malinowski

                                Cheryl Such

Regulatory Compliance

Items Reviewed:	Sat.	Unsat.	Comments
Appropriate requirements identified	X	☐	___
Development plans and schedules	X	☐	___
Regulatory compliance including USQD and NEPA	X	☐	___
Disposition of CHITS from previous reviews	X	☐	
Cost objectives	☐	☐	<u>N/A</u>
Other review objectives addressed	X	☐	___
(Attachment 4 of ENG-033)			

SUM ARY OF RESULTS:

A total of twelve (12) CHITs were generated. Major concerns expressed included how to incorporate the Ops Center into the NCSX data management program, how to ensure configuration control of items posted on the various web and FTP sites, and the process for posting items on the web when multiple personnel have access.

Disposition: [check one]

☐   **Acceptable**

X   **Acceptable pending resolution of concerns**- CHITS identified above must be resolved prior to

installation/issue of Plan/Procedure.

☐   **Incomplete** - Additional design work is required prior to another design review.

Chairperson Signature:

Distribution: Review Board Members, NCSX Engineering Web Page, Cognizant Design Engineer, System Engineer(s), Attendees, QA, ES&H

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ____1____

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS   ☐ HARDWARE   ☐ SAFETY
☐ ANALYSIS   ☐ CONFIGURATION   ☐ COST/SCHEDULE
☐ PERFORMANCE   ☐ RELIABILITY/MAINTAINABILITY   ☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION

If Ops Center maintains any electronic records, need to be included in Net backup system.

ORIGINATOR _____ J. Malsbury

NAME/ORGANIZATION - QA

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA   DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:

Bob Simmons will work with the Computer Division and Ops Center to set up Fileroom Account for Ops Center and then work with Ops Center (Cheryl Such) to post info on this new Ops Center Fileroom. Once the Fileroom is established, it will automatically be backed-up by Net backup system.

SIGNATURE R. Simmons   DATE: 04-02-03

RESPONSIBLE RLM REVIEW

0 APPROVE COG DISPOSITION
0 DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE: _____

COGNIZANT DESIGN ENGINEER CLOSE-OUT
Sign when action required by disposition is complete.

SIGNATURE _____DATE: _____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___2___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS   ☐ HARDWARE   ☐ SAFETY
☐ ANALYSIS   ☐ CONFIGURATION   ☐ COST/SCHEDULE
☐ PERFORMANCE   ☐ RELIABILITY/MAINTAINABILITY   ☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION
The approach taken to move drawings within INTRALINK from one release level to another (CD to PD, as example) needs to be defined in a "user friendly" manner that meets the current lab experience in running INTRALINK.

ORIGINATOR _____ Tom Brown

NAME/ORGANIZATION   MED

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA   DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:
Tom Brown to recommend change to Pro/INTRALINK Users Guide (and to DMP) to clarify/update drawing release process.

SIGNATURE R. Simmons   DATE: 04-02-03

RESPONSIBLE RLM REVIEW

0   APPROVE COG DISPOSITION
0   DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE: _____

COGNIZANT DESIGN ENGINEER CLOSE-OUT
Sign when action required by disposition is complete.

SIGNATURE _____ DATE: _____

PPPL DESIGN REVIEW CHIT

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS	☐ HARDWARE	☐ SAFETY
☐ ANALYSIS	☒ CONFIGURATION	☐ COST/SCHEDULE
☐ PERFORMANCE	☒ RELIABILITY/MAINTAINABILITY	☒ QUALITY

COMMENT/CONCERN/RECOMMENDATION
There is no clear procedure for implementing interim changes to dwgs., SOWs, specs. This will be necessary in order to permit suppliers to react in a timely fashion. The process must also address the need to coordinate with Procurement, QA, etc.

ORIGINATOR ____Rod Templon____

NAME/ORGANIZATION PROCUREMENT

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA   DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:
- Rod Templon will develop disclaimer statement for posting on the Manufacturing and Supplier FTP webs.
- Tom Brown will create an electronic stamp ("Info Only/Not for Fab or Construction).
- Tom Brown will suggest changes to DMP and Users Guide to reflect this.
- Bob simmons will prepare procedure for the discipline to post items on vendor accessed sites – ensure coordination of procurement contract changes with that posted on the web.

SIGNATURE R. Simmons   DATE: 04-02-03

RESPONSIBLE RLM REVIEW

0   APPROVE COG DISPOSITION
0   DISAPPROVE COG DISPOSITION | SIGNATURE _____ DATE:_____

COGNIZANT DESIGN ENGINEER CLOSE-OUT
Sign when action required by disposition is complete.

SIGNATURE _____ DATE: _____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___4___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan

COGNIZANT DESIGN ENGINEER R. Simmons _____ DATE OF REVIEW 03-31-03

☒ PEER
☐ CDR
☐ PDR
☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS   ☐ HARDWARE   ☐ SAFETY
☐ ANALYSIS   ☐ CONFIGURATION   ☐ COST/SCHEDULE
☐ PERFORMANCE   ☐ RELIABILITY/MAINTAINABILITY   ☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION
Identify the Ops Center as another Web site. This is where NCRs, WPs, and perhaps JHAs would be found. (These documents are ordinarily stored here so there is no change in that regard.) All NCSX files at the Ops Center should be catalogued electronically.

ORIGINATOR _____ W.Reiersen

NAME/ORGANIZATION MED

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA _____ DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:
- Wayne Reiersen to work with Ops Center to arrange method of cataloging hard copy of documents being filed in Ops Center.
- Wayne Reiersen to work with Bill Slavin on getting electronic copies of JHA (or methods to send to Ops Center).
- Judy Malsbury to establish system for getting electronic copies of NCRs (without signatures) to the Ops Center in addition to paper copies with signatures.

SIGNATURE R. Simmons _____ DATE: 04-02-03

RESPONSIBLE RLM REVIEW
0   APPROVE COG DISPOSITION
0   DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE:_____

COGNIZANT DESIGN ENGINEER CLOSE-OUT
Sign when action required by disposition is complete.

SIGNATURE _____ DATE:_____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___5___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER ☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons DATE OF REVIEW 03-31-03	☐ PDR ☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS   ☐ HARDWARE   ☐ SAFETY
☐ ANALYSIS   ☐ CONFIGURATION   ☐ COST/SCHEDULE
☐ PERFORMANCE   ☐ RELIABILITY/MAINTAINABILITY   ☒ QUALITY

COMMENT/CONCERN/RECOMMENDATION

Reference CHIT #1. Need someplace (project procedure, QA-003?) to define who is responsible for the actions of the Ops Center?

ORIGINATOR ___Judy Malsbury___

NAME/ORGANIZATION ___QA___

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA ___ DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:

Bob Simmons to work with Al VonHalle and Cheryl Such to clarify role and responsibilities of Ops Center relative to NCSX Project.

SIGNATURE R. Simmons _____ DATE: 04-02-03

RESPONSIBLE RLM REVIEW

0   APPROVE COG DISPOSITION
0   DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE: _____

COGNIZANT DESIGN ENGINEER CLOSE-OUT

Sign when action required by disposition is complete.

SIGNATURE _____ DATE: _____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___6___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS   ☐ HARDWARE   ☐ SAFETY
☐ ANALYSIS   ☒ CONFIGURATION   ☐ COST/SCHEDULE
☐ PERFORMANCE   ☐ RELIABILITY/MAINTAINABILITY   ☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION
DMP says one back-up (designee), but apparently multiple designers are allowed (bad idea!). Conflict should be resolved.

ORIGINATOR ____F. Malinowski____

NAME/ORGANIZATION _____QA_____

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA   DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:
- Tom Brown will be the custodian for posting on the vendor sites (See CHIT #3).
- Tom Brown develop procedure for posting drawings on vendor sites.
- Bob Simmons develop procedure that will document process for concurrently updating contract and posting relevant documents on the vendor webs.

SIGNATURE R. Simmons   DATE: 04-02-03

RESPONSIBLE RLM REVIEW
0 APPROVE COG DISPOSITION
0 DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE:_____

COGNIZANT DESIGN ENGINEER CLOSE-OUT
Sign when action required by disposition is complete.

SIGNATURE _____ DATE:_____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # 7

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons_____ DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS	☐ HARDWARE	☐ SAFETY
☐ ANALYSIS	☐ CONFIGURATION	☐ COST/SCHEDULE
☒ PERFORMANCE	☒ RELIABILITY/MAINTAINABILITY	☒ QUALITY

COMMENT/CONCERN/RECOMMENDATION

Concerns that too many custodians & designers will lead to inconsistent implementation of controls. The web & ftp sites are used to store info and to distribute controlled documents. The controls need to be defined and limited # of implementers designated.

ORIGINATOR ____ F. Malinowski

NAME/ORGANIZATION ___ QA

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.)

X CONCUR

0 DISAGREE

0 OTHER   CHAIRPERSON J. Malsbury, QA _____ DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:

See resolution proposed for CHITs#6 and #8.

SIGNATURE R. Simmons _____ DATE: 04-02-03

RESPONSIBLE RLM REVIEW

0   APPROVE COG DISPOSITION

0   DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE:_____

COGNIZANT DESIGN ENGINEER CLOSE-OUT

Sign when action required by disposition is complete.

SIGNATURE _____ DATE:_____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___8___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons_____ DATE OF REVIEW 03-31-03_____	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS	☐ HARDWARE	☐ SAFETY
☐ ANALYSIS	☒ CONFIGURATION	☐ COST/SCHEDULE
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COMMENT/CONCERN/RECOMMENDATION

DMP lists mfg. Web custodian as Proc. Tech Rep, but Phil Heitzenroeder will be custodian. Plan needs update.

ORIGINATOR ____F. Malinowski____

NAME/ORGANIZATION ____QA____

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.)

X CONCUR

0 DISAGREE

0 OTHER   CHAIRPERSON J. Malsbury, QA_____ DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:

The custodian for the Engineering Web and the Manufacturing Web is the Engineering Manager (Wayne). He has and can delegate some aspects to others (e.g., parts of Engineering Web delegated to Bob Simmons). Expect that some parts of the Manufacturing Web will likewise be delegated to the Technical Rep. The DMP will be updated to reflect this.

SIGNATURE R. Simmons_____ DATE: 04-02-03

RESPONSIBLE RLM REVIEW

0   APPROVE COG DISPOSITION

0   DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE:_____

COGNIZANT DESIGN ENGINEER CLOSE-OUT

Sign when action required by disposition is complete.

SIGNATURE _____ DATE:_____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___9___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS ☐ HARDWARE ☐ SAFETY
☐ ANALYSIS ☐ CONFIGURATION ☐ COST/SCHEDULE
☐ PERFORMANCE ☐ RELIABILITY/MAINTAINABILITY ☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION
Revise drawing release flow diagram – design baseline established going into review.

ORIGINATOR ____ W. Reiersen

NAME/ORGANIZATION ___ MED

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA   DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:
Bob Simmons to fix errors in figures of DMP.

SIGNATURE R. Simmons   DATE: 04-02-03

RESPONSIBLE RLM REVIEW
0   APPROVE COG DISPOSITION
0   DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE:_____

COGNIZANT DESIGN ENGINEER CLOSE-OUT
Sign when action required by disposition is complete.

SIGNATURE _____ DATE: _____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___10___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons _____ DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☒ REQUIREMENTS   ☐ HARDWARE   ☐ SAFETY
☐ ANALYSIS   ☐ CONFIGURATION   ☐ COST/SCHEDULE
☐ PERFORMANCE   ☐ RELIABILITY/MAINTAINABILITY   ☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION
Need definition/requirements for non-PPPL & non-ORNL access to manufacturing web. Also, will suppliers only be limited to info of interest & need to know?

ORIGINATOR ___J. Malsbury___

NAME/ORGANIZATION ___QA___

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA _____ DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:
Only non-proprietary information from PPPL to the suppliers will be posted on the Manufacturing Web. No information provided by suppliers will be posted there. As a result, anyone should be able to access the information.
.

SIGNATURE R. Simmons _____ DATE: 04-02-03

RESPONSIBLE RLM REVIEW

X APPROVE COG DISPOSITION
0 DISAPPROVE COG DISPOSITION   SIGNATURE W. Reiersen _____ DATE: 04-02-03

COGNIZANT DESIGN ENGINEER CLOSE-OUT

Sign when action required by disposition is complete.

SIGNATURE R. Simmons   DATE: 04-02-03

PPPL DESIGN REVIEW CHIT

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan COGNIZANT DESIGN ENGINEER R. Simmons_____DATE OF REVIEW 03-31-03	☒ PEER ☐ CDR ☐ PDR ☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☐ REQUIREMENTS   ☐ HARDWARE   ☐ SAFETY
☐ ANALYSIS   ☐ CONFIGURATION   ☐ COST/SCHEDULE
☐ PERFORMANCE   ☐ RELIABILITY/MAINTAINABILITY   ☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION
Document procedure for making posting documents on the mfg. Web and for posting drawings and models on the FTP server.

ORIGINATOR _____W. Reiersen_____

NAME/ORGANIZATION _____MED_____

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.)

X CONCUR
0 DISAGREE
0 OTHER   CHAIRPERSON J. Malsbury, QA_____ DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:
See response to CHIT#6.

SIGNATURE R. Simmons_____ DATE: 04-02-03

RESPONSIBLE RLM REVIEW
0 APPROVE COG DISPOSITION
0 DISAPPROVE COG DISPOSITION   SIGNATURE _____DATE:_____

COGNIZANT DESIGN ENGINEER CLOSE-OUT
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SIGNATURE _____DATE: _____

PPPL DESIGN REVIEW CHIT

WP # _____ (ENG-032)

CHIT # ___12___

COMPONENT/SUBSYSTEM/SYSTEM NCSX Data Management Plan	☒ PEER
	☐ CDR
COGNIZANT DESIGN ENGINEER R. Simmons DATE OF REVIEW 03-31-03	☐ PDR
	☐ FDR

SUBJECT: (CHECK AS APPLICABLE)

☒ REQUIREMENTS	☐ HARDWARE	☐ SAFETY
☐ ANALYSIS	☐ CONFIGURATION	☐ COST/SCHEDULE
☐ PERFORMANCE	☐ RELIABILITY/MAINTAINABILITY	☐ QUALITY

COMMENT/CONCERN/RECOMMENDATION

Where do technical data files reside and how are they controlled.

ORIGINATOR ____H. G. Neilson____

NAME/ORGANIZATION ___PPPL___

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.)

X CONCUR

0 DISAGREE

0 OTHER   CHAIRPERSON J. Malsbury, QA   DATE: 04-02-03

COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:

- As indicated on CHIT#6, Bob Simmons will develop a procedure that documents the process for posting on vendor sites.
- Technical data files used for design (e.g., current wave forms, etc.) will be incorporated into specs as appendices and will be controlled via the CM process for changing specs.

SIGNATURE R. Simmons   DATE: 04-02-03

RESPONSIBLE RLM REVIEW

0   APPROVE COG DISPOSITION

0   DISAPPROVE COG DISPOSITION   SIGNATURE _____ DATE: _____

COGNIZANT DESIGN ENGINEER CLOSE-OUT

Sign when action required by disposition is complete.

SIGNATURE _____ DATE: _____