

Please reply with your availability to attend a rescheduled FDR on Wednesday, Thursday or Friday (12/14 to 12/16).

12/15/05 FDR - TEMPERATURES

Attendees

George Juhl

C. Duock

W. Reiersen

John Edwards

IRVING ZATZ

Jim Brown

Mike Viola

MIKE ZARNSTORFF

Brent Stratton

P. GORANSON (ORNL)

M. Brown (1)

M. COLLE (1)

B. NELSON (1)

# PPPL DESIGN REVIEW CHIT

WP # 1212\_ (ENG-032)

CHIT # 1

COMPONENT/SUBSYSTEM/SYSTEM NCSX\_External Saddle Loops

 PEER CDR PDR FDR

COGNIZANT DESIGN ENGINEER G Labik DATE OF REVIEW 12/13/05

**SUBJECT: (CHECK AS APPLICABLE)** REQUIREMENTS ANALYSIS PERFORMANCE HARDWARE CONFIGURATION RELIABILITY/MAINTAINABILITY SAFETY COST/SCHEDULE QUALITY**COMMENT/CONCERN/RECOMMENDATION**

The placement of the saddle loops involves a metrology procedure using an "ideal surface" as a basis. This ~~procedure~~ <sup>and resources</sup> procedure needs to be defined and presented at the review of the installation procedure.

ORIGINATOR — *J. Tolson*

NAME/ORGANIZATION

**REVIEW BOARD COMMENT/RECOMMENDATION**

(Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reasons do not simply state "out-of-scope or N/A" without explaining.)

 CONCUR DISAGREE OTHERCHAIRPERSON *[Signature]*DATE: *12/13/05***COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:**

SIGNATURE \_\_\_\_\_ DATE: \_\_\_\_\_

**RESPONSIBLE RLM REVIEW** APPROVE COG DISPOSITION 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 # 1212\_ (ENG-032)

CHIT # 2

COMPONENT/SUBSYSTEM/SYSTEM NCSX\_External Saddle Loops\_\_\_\_\_

 PEER CDR PDR FDR

COGNIZANT DESIGN ENGINEER G Labik\_\_\_\_\_ DATE OF REVIEW 12/13/05

**SUBJECT: (CHECK AS APPLICABLE)** REQUIREMENTS ANALYSIS PERFORMANCE HARDWARE CONFIGURATION RELIABILITY/MAINTAINABILITY SAFETY COST/SCHEDULE QUALITY**COMMENT/CONCERN/RECOMMENDATION**

Check to see whether footprint of stud welder is larger than footprint of heating / cooling tube clamps. If so, stud welder footprint should be used in layout to ~~detect~~ resolve interferences with flux loops.

ORIGINATOR — B. Stratton

NAME/ORGANIZATION NCSX Diagnostics

**REVIEW BOARD COMMENT/RECOMMENDATION**

(Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reasons do not simply state "out-of-scope or N/A" without explaining.)

 CONCUR DISAGREE OTHER

CHAIRPERSON

DATE: 12/16/05

**COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:**

SIGNATURE \_\_\_\_\_ DATE: \_\_\_\_\_

**RESPONSIBLE RLM REVIEW** APPROVE COG DISPOSITION 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 # 1212\_ (ENG-032)

CHIT # 3

COMPONENT/SUBSYSTEM/SYSTEM NCSX\_External Saddle Loops\_\_\_\_\_

COGNIZANT DESIGN ENGINEER G Labik\_\_\_\_\_ DATE OF REVIEW 12/13/05 PEER  
 CDR  
 PDR  
 FDR**SUBJECT: (CHECK AS APPLICABLE)** REQUIREMENTS  
 ANALYSIS  
 PERFORMANCE HARDWARE  
 CONFIGURATION  
 RELIABILITY/MAINTAINABILITY SAFETY  
 COST/SCHEDULE  
 QUALITY**COMMENT/CONCERN/RECOMMENDATION**

NEED TO ACCELERATE THE LEARNING  
PROCESS ON THE LASER TRACKER  
TO MAKE SURE WE CAN MEET NEEDED  
METROLOGY NEEDS FOR COILS

ORIGINATOR C. DUBEX  
NAME/ORGANIZATION**REVIEW BOARD COMMENT/RECOMMENDATION**

(Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reasons do not simply state "out-of-scope or N/A" without explaining.)

Do BY PROCEDURE REVIEW  
FOR COILS INSTALLATION

 CONCUR  
 DISAGREE  
 OTHER

CHAIRPERSON

DATE: 12/13/05**COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:**

SIGNATURE \_\_\_\_\_ DATE: \_\_\_\_\_

**RESPONSIBLE RLM REVIEW** APPROVE COG DISPOSITION  
 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 # 1212\_ (ENG-032)

CHIT # 4

COMPONENT/SUBSYSTEM/SYSTEM NCSX\_External Saddle Loops\_\_\_\_\_

- PEER  
 CDR  
 PDR  
 FDR

COGNIZANT DESIGN ENGINEER G Labik\_\_\_\_\_ DATE OF REVIEW 12/13/05

**SUBJECT: (CHECK AS APPLICABLE)**

- |                                       |  |  |
|---------------------------------------|--|--|
| <input type="checkbox"/> REQUIREMENTS | <input type="checkbox"/> HARDWARE                    | <input type="checkbox"/> SAFETY        |
| <input type="checkbox"/> ANALYSIS     | <input type="checkbox"/> CONFIGURATION               | <input type="checkbox"/> COST/SCHEDULE |
| <input type="checkbox"/> PERFORMANCE  | <input type="checkbox"/> RELIABILITY/MAINTAINABILITY | <input type="checkbox"/> QUALITY       |

**COMMENT/CONCERN/RECOMMENDATION**

get 2 prices on Templates  
1) as is - perimeter only  
2) Include notches generically defined  
ie 1/2" from corner  
3/8" deep 2" long

ORIGINATOR \_\_\_\_\_

NAME/ORGANIZATION \_\_\_\_\_

**REVIEW BOARD COMMENT/RECOMMENDATION**

(Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reasons do not simply state "out-of-scope or N/A" without explaining.)

- CONCUR  
 DISAGREE  
 OTHER

CHAIRPERSON \_\_\_\_\_

DATE: 12/13/05

**COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION:**

SIGNATURE \_\_\_\_\_ DATE: \_\_\_\_\_

**RESPONSIBLE RLM REVIEW**

- APPROVE COG DISPOSITION  
 DISAPPROVE COG DISPOSITION

SIGNATURE \_\_\_\_\_ DATE: \_\_\_\_\_

**COGNIZANT DESIGN ENGINEER CLOSE-OUT**

Sign when action required by disposition is complete.

SIGNATURE \_\_\_\_\_ DATE: \_\_\_\_\_