NCSX PF Coil Preliminary Design Review 12/14/07 ATTENDANCE

MILE COLE	OAK RIPGE
CAUCK SWENSON	LANL
Jim Chrzenouski	PPPL
J Ramabrishnan	CCCL
C Neumeyer	PPPC
Phil Heitzen weder	PPPC
mike Cole	ORNL
Judy Malsbury	QA
Bob Summors	PPPL
Tom Merghan	PROL
Bever PALL	pppL
Steve RAPRODUCES	PPPL
Hutch Neilson	PPPL
STRYKOWSKY	PPPL
Jim Anderson	PPPL
Frank Malinewski	CIPC
Art Brances	PAPC
Larry Sutton	PPPL
JOE RUSHINSKI	PPPC
FRED DAHLGRON	DPPC

PPPL DESIGN REVIEW CHIT CHIT #			WP # (ENG-032)
COMPONENT/SUBSYSTEM/SYSTEM NUSY PF COIL PDR CDR CORNIZANT DESIGN ENGINEER FACISH DATE OF REVIEW 12/14/07 PDR	PPPL DESIGN	REVIEW CHIT	
COGNIZANT DESIGN ENGINEER FACISH DATE OF REVIEW 12/14/07 PDR PDR PDR FDR SUBJECT: (CHECK AS APPLICABLE) REQUIREMENTS	111 E BESIGI		
COGNIZANT DESIGN ENGINEER FACISH DATE OF REVIEW 12/14/07 PDR PDR PDR FDR SUBJECT: (CHECK AS APPLICABLE) REQUIREMENTS	COMPONENT/SUPSYSTEM/SYSTEM	NCSX DF COIL	PDR PEER
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PERFORMANCE RELIABILITY/MAINTAINABILITY QUALITY			
COMMENT/CONCERN/RECOMMENDATION Verify Configuration preserves stellorator symmology 1. C. Botton Coils are installed rotated about machine'x' Cric 180 DO ORIGINATOR Art Brooks NAME/ORGANIZATION REVIEW BOARD COMMENT/RECOMMENDATION (Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical reasor do not simply state "out-of-scope or N/A" without explaining.) OCONCUR O DISAGREE O OTHER CHAIRPERSON DATE: 12 N/D COGNIZANT DESIGN ENGINEER'S RESPONSE/DISPOSITION: RESPONSIBLE RLM REVIEW O APPROVE COG DISPOSITION O DISAPPROVE COG DISPOSITION SIGNATURE DATE: COGNIZANT DESIGN ENGINEER CLOSE-OUT Sign when action required by disposition is complete.			
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PPPL DESIG	N REVIEW CHIT	WP # (ENG-032)
COMPONENT/SUBSYSTEM/SYSTEM	NCCY DF COIL	PDR DPEER
COGNIZANT DESIGN ENGINEER		
SUBJECT: (CHECK AS APPLICABL	E)	
☐ ANALYSIS ☐ CON	RDWARE NFIGURATION LIABILITY/MAINTAINABILITY	SAFETY COST/SCHEDULE QUALITY
COMMENT/CONCERN/RECOMMEN	DATION	25 17-
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comment/concern/recomment Calendations voltage, # % requerement	furns & F3 have to	current Le referre
to	NAME/ORGA	
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		WP # (ENG-032)
PPPL DESIG	N REVIEW CHIT	CHIT #
COMPONENT/SUBSYSTEM/SYSTEM	NESX PF COIL	PDR PEER
i/ A	11611	12 /41/07 CDR
COGNIZANT DESIGN ENGINEER KA		12/14/0/ X PDR FDR
SUBJECT: (CHECK AS APPLICABLE	1)	
☐ ANALYSIS ☐ CON	DWARE IFIGURATION IABILITY/MAINTAINABILITY	SAFETY COST/SCHEDULE QUALITY
COMMENT/CONCERN/RECOMMEND	DATION	
Consider using ag	round plane,	
	ORIGINATO	DR_CNenmeyer
	NAME/ORGAN	NIZATION
REVIEW BOARD COMMENT/RECON (Address technical, cost, and schedule imp do not simply state "out-of-scope or N/A" w	acts as appropriate. If CHIT is	not adopted, provide technical reas
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WP # (ENG-032)			
PPPL DESIGN REVIEW CHIT # 4			
COMPONENT/SUBSYSTEM/SYSTEM NCSX PF COIL PDR DEER			
COGNIZANT DESIGN ENGINEER FACISH DATE OF REVIEW 12/14/07 PDR			
SUBJECT: (CHECK AS APPLICABLE)			
□ REQUIREMENTS □ HARDWARE □ SAFETY □ ANALYSIS □ CONFIGURATION □ COST/SCHEDULE □ PERFORMANCE □ RELIABILITY/MAINTAINABILITY □ QUALITY			
COMMENT/CONCERN/RECOMMENDATION			
Senson loop may have a noise problem unless there is a shield via ground plane in coil or around senson loop. Proper design would place			
there is a shield via grand plante in con			
or around senson logs. Proper desyla would prace			
sensor outside of ground ORIGINATOR_ C Neumeyer			
plane, NAME/ORGANIZATION			
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.)			
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COMPONENT/SUBSYSTEM/SYSTEM NCSX PF COIL PDR PEER CORNIZANT DESIGN ENGINEER KACISH DATE OF REVIEW 12/14/07 PDR PDR FDR SUBJECT: (CHECK AS APPLICABLE)		
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COMMENT/CONCERN/RECOMMENDATION		
Check calculation of tern-totem voltage.		
ORIGINATOR_C. Newweyer		
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.)		
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PPPL DESIG	N REVIEW CHIT	CHIT # 6
COMPONENT/SUBSYSTEM/SYSTEM		/ / !!! [[[]]]
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REVIEW BOARD COMMENT/RECOM	pacts as appropriate. If CHIT is	not adopted, provide technical reaso
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WP # (ENG-032)		
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COMPONENT/SUBSYSTEM/SYSTEM NCSX PF COIL PDR PEER		
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COGNIZANT DESIGN ENGINEER		
SUBJECT: (CHECK AS APPLICABLE)		
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COMMENT/CONCERN/RECOMMENDATION		
Need to establish minimum lead-to-lead and		
lend-to-ground creepage distances for leads to ensure safety mattir ORIGINATOR_C. Nenneyar		
to ensure safety matter ORIGINATOR_C. Nenneyar		
on lends, NAME/ORGANIZATION		
REVIEW BOARD COMMENT/RECOMMENDATION		
(Address technical, cost, and schedule impacts as appropriate. If CHIT is not adopted, provide technical rea do not simply state "out-of-scope or N/A" without explaining.)		
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WP # (ENG-032)
PPPL DESIGN REVIEW CHIT #_8
COMPONENT/SUBSYSTEM/SYSTEM NCSX PF COIL PDR PEER
COGNIZANT DESIGN ENGINEER KACISH DATE OF REVIEW 12/14/07 DR PDR FDR
SUBJECT: (CHECK AS APPLICABLE)
□ REQUIREMENTS □ HARDWARE □ SAFETY □ ANALYSIS □ CONFIGURATION □ COST/SCHEDULE □ PERFORMANCE □ RELIABILITY/MAINTAINABILITY □ QUALITY
COMMENT/CONCERN/RECOMMENDATION / /
Need plan to measure coil copper temperature to
prevent flow of LNZ into warm coil. T/c's in
Need plan to measure coil copper temperature to prevent flow of LNz into warm coil. T/c's in oper not recommended, Consider fiber optic probe or resistance measurement
or resistance measurant NAME/ORGANIZATION (Neumaner
2 Llent.
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.)
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PPPL DESIGI	N REVIEW CHIT	WP # (ENG-032) CHIT #
COMPONENT/SUBSYSTEM/SYSTEM	CISH DATE OF REVIEW	
SUBJECT: (CHECK AS APPLICABLE	=)	
☐ ANALYSIS ☐ CON	DWARE IFIGURATION IABILITY/MAINTAINABILITY	SAFETY COST/SCHEDULE QUALITY
COMMENT/CONCERN/RECOMMEND	DATION	
WHO IS RESPON PRUTOCTION DUE WILL THIS BE CON	SIBLE FOR TO THE WAL S	HOCK?
WBS I (IdC) WIT	TH ORIGINATO	OR STRYKOWSKY
INTERLOCKS TO THE	NAME/ORGAN	NIZATION
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SUBJECT: (CHECK AS APPLICABLE)	
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The Time To		
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The True leakage	NAME/ORGAN	IZATION
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COMPONENT/SUBSYSTEM/SYSTEM	CISH DATE OF REVIEW	PDR PEER CDR PDR FDR
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COMMENT/CONCERN/RECOMMENT		
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		WP # (ENG-032)		
PPPL DESIGN REVIEW CHIT #(3_				
COMPONENT/SUBSYSTEM/SYSTEM	NCSX PF COIL	PDR DEER		
COGNIZANT DESIGN ENGINEER/				
SUBJECT: (CHECK AS APPLICABLE)				
ANALYSIS COI	RDWARE NFIGURATION LIABILITY/MAINTAINABILITY			
COMMENT/CONCERN/RECOMMEN	DATION	215		
COMMENT/CONCERN/RECOMMENDATION Special stripping instructions and meganines				
are seen		Mano		
ORIGINATOR				
	NAME/ORGAN	NIZATION		
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