James H. Chrzanowski

From: Brad Nelson [NelsonBE@ornl.gov]

Sent: Friday, April 16, 2004 3:43 PM

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Cc: Arthur W. Brooks; Wayne T. Reiersen

Subject: Peer review of the NCSX Coil Tolerance, Trim Coil Requirements, and Magnetic Material in the

Test Cell

Folks

There will be a peer review of the NCSX Coil Tolerance, Trim Coil Requirements, and Magnetic Material in the Test Cell on Monday, April 19, at 9:30. The meeting will take place in the PPPL engineering conference room.

Please plan to attend.

Thanks.

Brad

Cog engineer: Art Brooks RLM: Brad Nelson Chair Wayne Reiersen

Charge:

1. Are the bases for the coil tolerance requirements complete?

Field errors from coil imperfections

Errors from fixed ferromagnetic material in building

2. Are the tolerance requirements well defined?

For mod coils
For TF and PF coils
For trim coils

3. Are the trim coil performance requirements (no., current, dl/dt, etc.) well defined?

4. Are additional analyses underway to investigate relaxation of tolerances, if needed, to address:

coil deflections from cooldown and magnetic loads

magnetic material in coil structures

coil position optimization

5. Are additional analyses planned to address final coil design, including actual crossover and lead geometry an location?

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Committee
Mike Zarnstorff
Dave Williamson
Jim Chrzanowski
Mike Kalish

Invitees
Hutch Neilson
Steve Hirshman
Dennis Strickler

4/21/2004