

NCSX Work Approval Form (WAF)

WBS Number: 824
WBS Title: System Analysis and Technical Assurance
Job Number: 8204
Job Title: Systems Analysis and Technical Assurance
Job Manager: Art Brooks

Description:

- Responsibilities include:
- Establishing structural and cryogenic design criteria. Completed
 - Establishing dimensional accuracy requirements for coil systems based on field error considerations. Completed
 - Analyzing field errors and managing field error budgets for as-designed conditions, out-of-tolerance conditions, eddy currents, and magnetic materials. Includes dispositioning nonconformance reports (NCRs).
 - Providing analysis support to the metrology and dimensional control efforts for troubleshooting problems as well as production activities
 - Analyzing options for optimally aligning modular coils based on physical and magnetic measurements
 - Performing global analyses which are outside the scope of individual subsystems. Analyses include electromagnetic analyses to determine coil inductances, fields, forces; global structural modeling to determine overall structural behavior, mechanical interface loads, and operating limits. (Global seismic analyses will be performed as part of the base support structure design in WBS 15.)

Schedule: See Attachment

Approvals:

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|-----------------------------|-------|
| _____ | _____ |
| Job Manager | Date |
| _____ | _____ |
| Responsible Line Manager | Date |
| _____ | _____ |
| Project Manager | Date |
| _____ | _____ |
| Engineering Department Head | Date |