

August 2, 2005

## **NCSX Organization**

The NCSX project is now very much dominated by fabrication activities, and less so by design activities. Several on-site fabrication jobs take place in a single area, the TFTR test cell. Coil testing, conducted in the TFTR test cell basement, interacts with NSTX operations. These activities impose more demanding safety management responsibilities on the project than before. We are making some changes in the NCSX project organization in order to safely and effectively manage this new phase of our work. The new organization is shown in the attachment.

The Major Item of Equipment (MIE) project work scope is organized in six groups, each headed by a responsible line manager (RLM). The NCSX Research Preparation work (non-MIE) is headed by the Project Physics Manager. The responsibilities are as follows:

### Stellarator Core (WBS 1)

Stellarator core management responsibilities are now divided between two groups.

Brad Nelson is the RLM for Stellarator Core Design and Procurement. Brad continues to be responsible for producing a stellarator design that meets project requirements and can be built safely and within cost and schedule targets, and for procuring the major components from industry. As before, all the stellarator core design engineers report to Brad. Now, the procurement technical representatives for the MCWF and VVSA also report directly to Brad.

Larry Dudek is the RLM for the new Stellarator Core On-Site Fabrication group. He is responsible for accomplishing the coil winding and field-period assembly activities safely and in accordance with project technical, cost, and schedule requirements. The job managers for these activities report to Larry.

### Other Subsystems (WBS 2-6)

The other subsystems have been re-grouped along disciplinary lines, as shown in the chart. Their WBS managers report as shown to the following RLMs:

Larry Dudek is the RLM for Ancillary and Facility Systems.

Dave Johnson is the RLM for Diagnostics.

Al von Halle is the RLM for Electrical Systems, including coil testing. Within this group, Paul Sichta is the newly appointed WBS manager for Central I&C and Data Acquisition.

### Machine Assembly and Test Cell Preparation (WBS 7)

Erik Perry continues as the RLM for Machine Assembly and Test Cell Preparation.

### Research Preparation

Mike Zarnstorff, NCSX Project Physics Manager, heads Research Preparation.

### Project Office

The Project Office is newly re-structured with a “flatter” organization to couple management more closely to the project work and to clarify responsibilities.

The Project Manager, Hutch Neilson, is responsible for project safety and all other project execution objectives: technical, cost, and schedule. Strategic project management decisions rest with the project manager. The Deputy Project Manager for Program, Jim Lyon, supports the project manager in all areas, especially programmatic matters, and is the project’s senior management representative in the ORNL organization. The Project Control Manager, Project Physics Manager, E.S.&H. Manager, QA Manager, and Procurement Manager all report to the project manager.

The Project Engineering Manager, Wayne Reiersen, is responsible for day-to-day execution and system integration. He is supported by the System Engineering group, whose members report to him. The Responsible Line Managers for operational and design activities also report to Wayne. The Project Engineering Manager reports to the project manager.

The NCSX line organization just described is responsible for safely executing the NCSX project. Supplementing the NCSX line organization, two of the Laboratory’s senior functional managers have oversight responsibilities related to NCSX. The Engineering and Technical Infrastructure Department Head, Mike Williams, provides management oversight of all NCSX engineering and construction activities. The Mechanical Engineering Division Head, Phil Heitzenroeder, provides management oversight of design and outside fabrication activities. These two ensure that the Laboratory’s engineering resources are effectively brought to bear on the project, and they support and advise the Project Manager in engineering matters.

Hutch Neilson  
NCSX Project Manager

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