

**National Compact Stellarator Experiment (NCSX) SubC# S-04344-F
Vacuum Vessel Manufacturing Development and Prototype Fabrication**

Weekly Status Report 02/20/04 thru 02/27/04

Project Management

- We received an email asking us to hold off on performing the two last tasks until the final design is provided.

Process Engineering

- Primary focus is technical support for Manufacturing, inspection data analysis, preparation for vacuum testing, and MIT progression.

PVVS Fabrication

- All five structural welds are complete. All passed radiographic requirements.
- Currently positioning and attaching the Port Extension sub-assy.

Quality Control

- After the PVVS primary structure was completely welded, the vessel was removed from the build fixture and re-installed in an unrestrained condition. The profile was re-inspected and the overall deviation from nominal at this stage in the process is (+0.151" / -0.032").
- Currently assisting with the positioning and installation of the Port Extension sub-assy.

Photographs

