

**National Compact Stellarator Experiment (NCSX) SubC# S005243-F  
Vacuum Vessel Sub Assembly Production**

**Weekly Status Report 12/17/04 thru 01/06/05**

**Project Management**

Procedure Status as of today.

- PS480 Visual Weld Inspection. Rev. B (at PPPL)
- PS481 X-Ray Rev. B (at PPPL)
- PS482 Profile Measurement (being created, low priority)
- PS483 Cleanliness Rev. F (at PPPL)
- PS484 Magnetic Permeability Measurement Rev. C (approved)
- PS485 U-T Thickness Measurement Rev. C (approved)
- PS486 Vacuum Testing (being created, low priority)
- PS487 Surface Finish Measurement Rev. C (approved)
- PS488 Subcontract Rev. C (approved)
- PS489 Material Procurement Rev. D (at PPPL)
- PS490 Serialization Rev. A (approved)
- PS491 Welding Rev. B (approved)

**Process Engineering**

- Thanks to the quick response to our letter outlining our expectations and potential solutions to control weld movement the final designs for the dies is progressing rapidly.
- Held meetings for review of die and 60 deg fixture designs.

**VVSA Fabrication**

- None

**Quality Control & Drawings**

- Continuing with Procedure Writing and Structuring

**Initial Concept of 60 deg  
Fixture**

60 Degree Section will be fabricated by joining two fabricated section almost in the middle of Section. This is a rough design but does represent the basic concept.

**The following pages are  
pictures of 6 Dies/Punch**































