## PPPL NONCONFORMANCE REPORT NO: 3628 Open Date 01/09/06 Status 9 - Closed NCR 01-Deviation From Doc/Proc Trend Department NCSX Division NCSX Project Source/Org FABRICATION, OPERATIONS & MAINTENANCE Item Dwg/Part# # SE142C-280 Rev. 0 Procurement # D-NCSX-MCF-001 R2 Cost Center RAP# 3207 Job Doc # D-NCSX-MCF-001 Vendor RAP Title Modular Coil Fabrication - Winding Form Preparation Activities HoldTag Applied Nonconforming Condition (include requirement(s) violated): The lead block mounts (pt. 9, 10, 11 & 12) for the C type NCSX modular coils are beyond the maximum magnetic permeability of 1.02 as stated in NCSX-ASPEC-GRD-03 paragraph 3.3.1.1. There were seven sets of four pieces each machined here at PPPL. The work order required these pieces to made from type 316 material, the actual type of material is not able to be positively identified. One of the seven sets of mounts was not able to measured because it is inaccessible on the C1 winding form due to conductor installation. The remaining six sets of mounts (24 pcs.) were able to be measured and have the following permeability: Outside diameter of parts = greater than 1.07 and less than 1.1, one piece was greater than 1.1 but less than 1.15. Inside diameter (machined threads) = greater than 1.2 and less than 1.8. Severn gauges #5111 and #3570 were used which contain the following inserts for readings: 1.01, 1.02, 1.05, 1.10, 1.15, 1.2, 1.8, 2.0, 2.2, 3.0, 3.35 and 5.0. This situation was discovered during the winding form preparation activities for the C2 casting. Sample Size Insp 28 Lot Rejected # Rejected Lot Size Recd 24 Validated Date 01/09/06 Reported By Phelps C Validated By Boscoe J Disposition: Rework\*\_\_ Repair\*\_\_ Use As Is\*\_\_ Return To Vendor\* Scrap\* Use As Is Parts will be used "as is" with the exception of the piece measured above 1.1 mu. A field error analysis was performed by Art Brooks, 1/13/06, that noted that the higher permeability of these parts had neglible impact on field errors. New part will be made for the higher permeability part. For rework or repair of vendor supplied equipments, fill in information below: Distribution Cog J. Chrzanowski \$G&A\_\_\_\_ \$Est Labor #Hours Insp Phelps/Boscoe \$Material \$Burden \$Total Proj. Doc Control (when closed) 01/13/06 Chrzanowski J Date QC Files Disposition By Malsbury J 01/13/06 Date Supervisor's Concur Dudek L Boscoe J Heitzenroeder P 01/16/06 Eng. Dept. Head Concur Date Williams M Williams M WCO/Other Date N/A Tyrrell M PQA/QC Mgr Dispos Concur Date Boscoe J 01/19/06 QC Field Verification By Date 03/17/06 Phelps C