RDDS1 Part Status

Most of the meeting was devoted to the part status and operations needed to complete RDDS1.

Gordon Bowden displayed a list of subassemblies and operations that need to be performed to complete RDDS1. Gordon is presently matching up the parts to this list to make sure nothing has been overlooked. This will be completed by the next meeting. There are approximately 65 drawings comprising RDDS1, and there are five or six left to do. The eyelets for the vacuum manifolds and the vacuum manifolds are two of the parts still being designed.

Parts that may be on the critical path for completion of the structure were discussed. The input coupler remains at KEK to repair some damage that occurred during fabrication. When it arrives at SLAC, it needs to be brazed, machined, brazed, and then cold-tested. The test cells required for the cold-test are at Robertson with a due date of 1/3/00. Cells 204 and 205 have yet to be fabricated, and they require the highest precision that our shop can deliver, which means that they go through one mill and one lathe with one operator each. These centers are backlogged at the present time. The eyelets for the vacuum manifolds are .020” cupronickel that need to be made from drawn cups. Tooling may need to be fabricated for the cups.

The WR62 flanges that are on-hand are low power flanges. It is unclear if these flanges have been tested at the higher power required for the output loads. Karen will look into the options in this area. Roger pointed out that the loads should be pre-tested to the required power level if they have not previously been exposed to it.

Karen presented an inventory of the high power loads. There are a significant quantity of loads with different power handling capabilities, different vacuum pumping capabilities, and different mating flanges.

Mike Neubauer is working on the issues surrounding the possible redesign of the high power loads.

There are approximately 35 drawings required for Gordon’s support. Approximately 80% of these are completed and are being cleaned up before being submitted to Chris Pearson. These parts are mostly aluminum with conventional machining requirements and do not appear to present fabrication problems at the present time.

Chris Pearson is planning on two brazes for the structure at the present time. Only one furnace can handle the structure, and this will be tested before the new year with a test structure that is on-hand from DDS3. Some tooling to move the structure may also need to be fabricated.

Carl Rago will take the detailed list from Gordon, add any other items needed by Chris Pearson, and come back with a detailed schedule. The goal is to see if the structure will be ready for installation in ASSET by 3/8/99, the date we now have from PEP II.