October 26, 1999

Structure and Support Designs

Carl passed out a revised version of the schedule for RDDS1 and its support. He will add subassemblies to the RDDS1 work for Chris Pearson, and adjust the starting dates for the tasks that are linked to other activities or dates.

Chris Pearson expressed his largest concern on the present RDDS1 design: the chance of a vacuum leak and the relative difficulty of repair due to the incorporation of formed bellows at the vacuum ports with limited clearance at the structure side. Gordon and Chris will review design alternatives to see if something more repairable can be accomplished without excessive delay or significant additional risk.

The Mike Palrang support design status was reviewed. Bosses will be brazed onto single cells of the structure adjacent to the areas used for Gordon's support to enable the Palrang support to be used at some later date. The bosses need to have a provision to allow them to be wired on during the structure braze without interference with the water and vacuum plumbing also being brazed on. The adjusters will only be in the Y direction, assuming that the X straightness as brazed will be acceptable. It is assumed that the WR90 waveguide in the NLCTA will provide a flexible joint to the input RF. The overall concept is that a structure can be mated with the Palrang support, tested as required, and then re-mounted for testing in Gordon's support at convenient times.

There are no parts amenable to machining by FNAL at the present time, but at least one should be available momentarily.

For the next meeting:

- Carl will bring his updated schedules
- Nancy will update her requirements table and sketches with any new thoughts.
- Mike P, Mike N., and Nancy will report on any additional progress on their design review on the Mike Palrang support design.

Carry over from previous meetings:

- Any further information on pressure drop will be presented.
- Feedback on the water cooling data will be provided.

Minutes by John Cornuelle