"Support Design Review"

On the ASSET access, Chris A. noted that the shutdown in the PEP II machine run will most likely last two months due to the power cost issues. It may be possible to utilize a ROD to install the structure prior to the shutdown.

Chris also reminded us that any support design needs to be usable in ASSET, ASTA, and the NLCTA.

There was a discussion of the water cooling, centered on Gordon's memo last week. Gordon mentioned that at least some of the SLC water pipes have internal features (fins or extrusions) to enhance the cooling efficiency. It was also noted that no vibration in the accelerator structure is observable for the water flow rates being contemplated.

Both Gordon and Mike indicated that there is sufficient clearance for CMM access to measure the location of the structure. Based on the "perfect" 61 mm cell O.D., only two points from one side may be sufficient to determine location, although more would be desirable.

There is consideration underway to have a four-port output coupler for the fundamental RF on RDDS1, with the arms at 45° angles to the horizontal. Both support designs would need to accommodate this change.

The RF flex joint near the structure was discussed briefly. Most likely it will be a formed bellows in the WC293 guide.

Mike Palrang's support design was reviewed. It needs an opening for the input RF, and a change either in the center vacuum yoke or the strut location so that they can co-exist. If another strut is needed to remove more than a half-sine bend in the structure it will need to be added. The vacuum pumping for the NLCTA run needs to be provided for.

For the next meeting:

- Carl will talk to Nancy and get together with Gordon on the specifics of the water cooling - flow rates, pressure drops, and delta T's.
- Carl will generate a schedule for the construction of the Bowden or Palrang support to help with the overall scheduling.
- Chris Pearson will prepare a schedule for the work he needs to accomplish on RDDS1, also to help with scheduling.
- Karen Fant will bring drawings of the RF flex joint design concepts.

Minutes by John Cornuelle