MEBT MEETING AGENDA

April 6, 2001

Electrical Systems Update

1. **Low Level RF**
2. **Rebuncher System**
3. **Beam Diagnostics**

Mechanical Systems Update

1. **Fabrication and Procurement Updates**
   - Chopper Target Brazing (corrosion) / Beambox
   - Chopper Vacuum Enclosures
   - BPM's
   - Vacuum Roughing System (**received**)
2. **Raft & SS FDR (**Action Items, MEBT)
3. **Wire Scanner Beambox (**BNL Laser Wire layout**,** in MEBT, **bellows)**

System Integration / Installation

1. **Diagnostic Beamline Update**
2. **MEBT Electrical Integration**

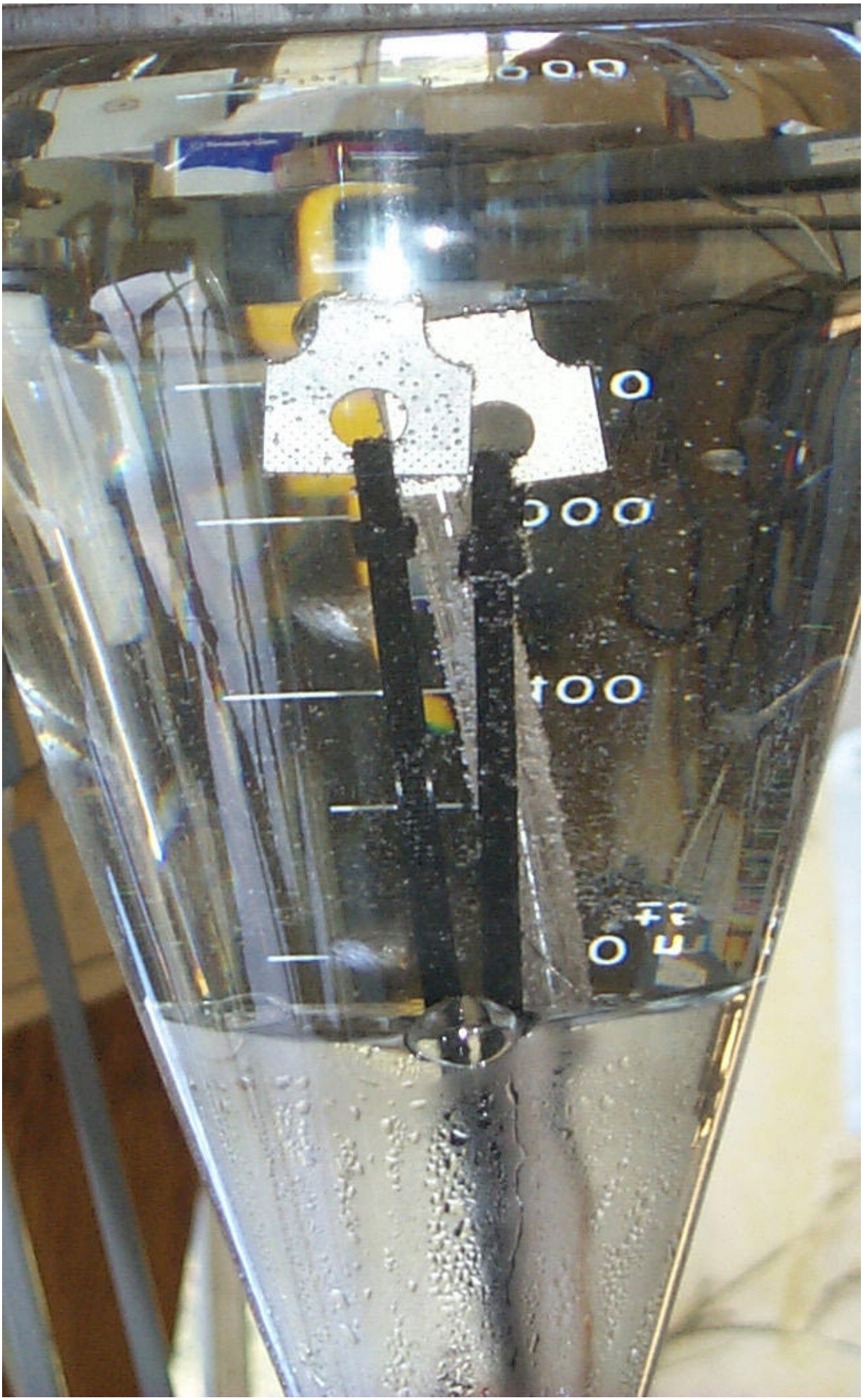
Upcoming Tasks and Milestones

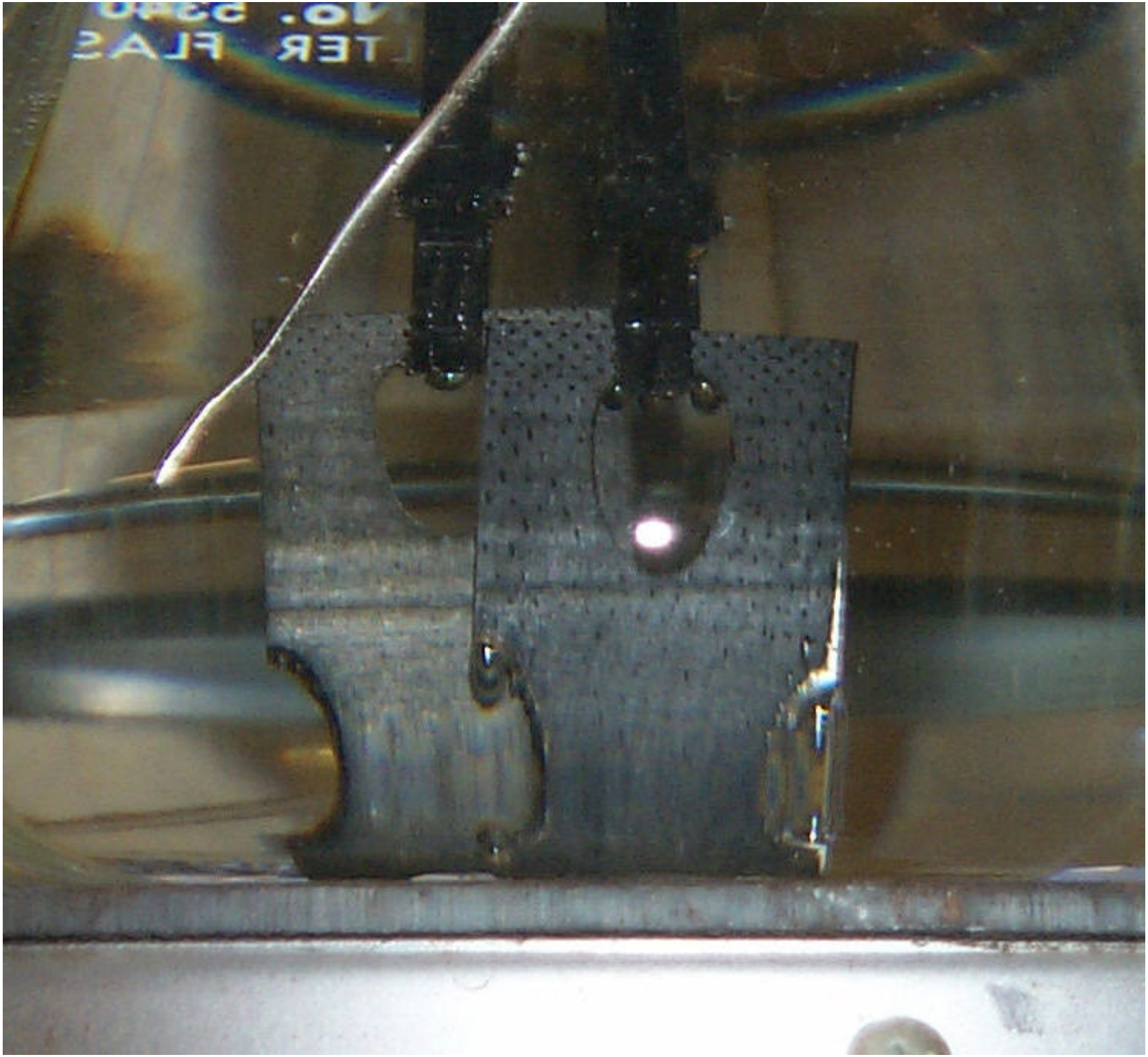
♦ Raft Systems FDR	3/31/01 UC Ö
♦ Rebuncher Cavity #1 Received	1/31/01 OR
♦ Profile Monitor First Article Complete	3/31/01
♦ Power Supply Rack Installation Complete	3/31/01
♦ Chopper Target Complete	4/30/01
♦ Chopper Vacuum Enclosures Complete	5/31/01
♦ Raft and Support Structure Complete	5/31/01 OR
♦ Rebuncher Amplifiers #2-6 Received	6/30/01
♦ Rebuncher Cavity #2-4 Received	6/30/01
♦ Profile Monitor all complete	7/31/01

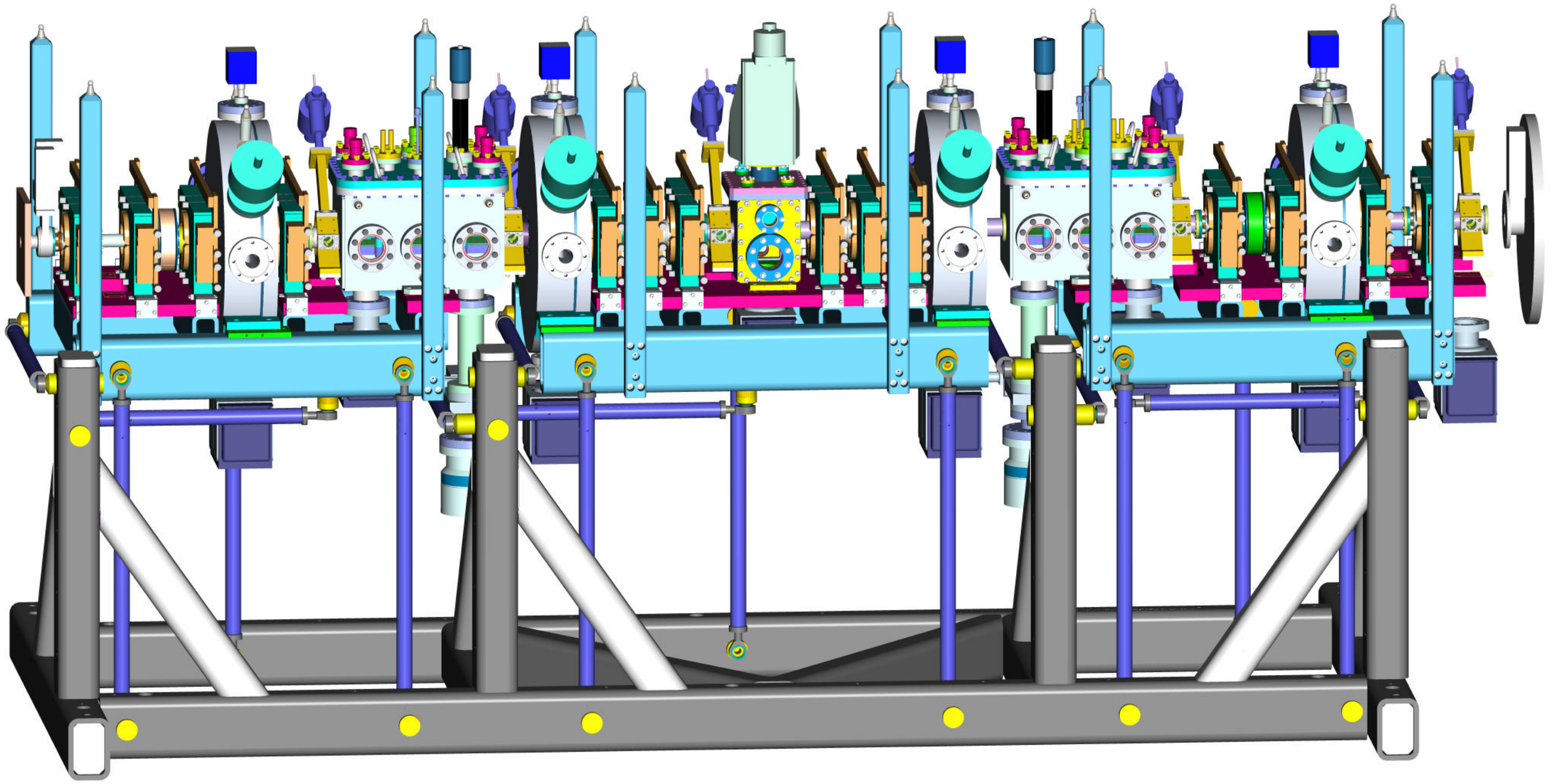
Next Meeting, Thursday, 4/12/01, 10 AM

MA_4-6-01.doc
D. Oshatz


MED
HIGH







MEBT Raft and Support Structure Final Design Review
March 30, 2001

Action Items:

1) Electrical Integration: Confirm that the design provides adequate space and access during installation for cables, wireways, etc.

2) Fiducial mounting points: The fiducial towers could prove cumbersome. Consider other options that would mount the fiducial features closer or directly to the raft surfaces to protect the integrity of the fiducialization.

3) Tighter Hole Tolerances: Consider the adequacy of the positional tolerances on tapped holes and dowel pins on the raft mounting plates. Tighter tolerances might reduce the risk of re-work.

4) Misc. Tapped Holes: Review the tapped holes for optional equipment mounting on the raft z-beams. It may, or may not, be useful to add holes on the top and sides of raft beams, in addition to the bottom.

5) Lifting Points: Add lifting points on rafts.

6) Bellows Damage / Access: Concerns were raised about the accessibility of the flange connection between the bellows on Raft #1 and Raft #2. Look for ways to design this interface so the bellows can be replaced if damaged. Create a well-defined procedure and consider special tools to minimize the risk of vacuum leaks or damage in this and other bellows areas.

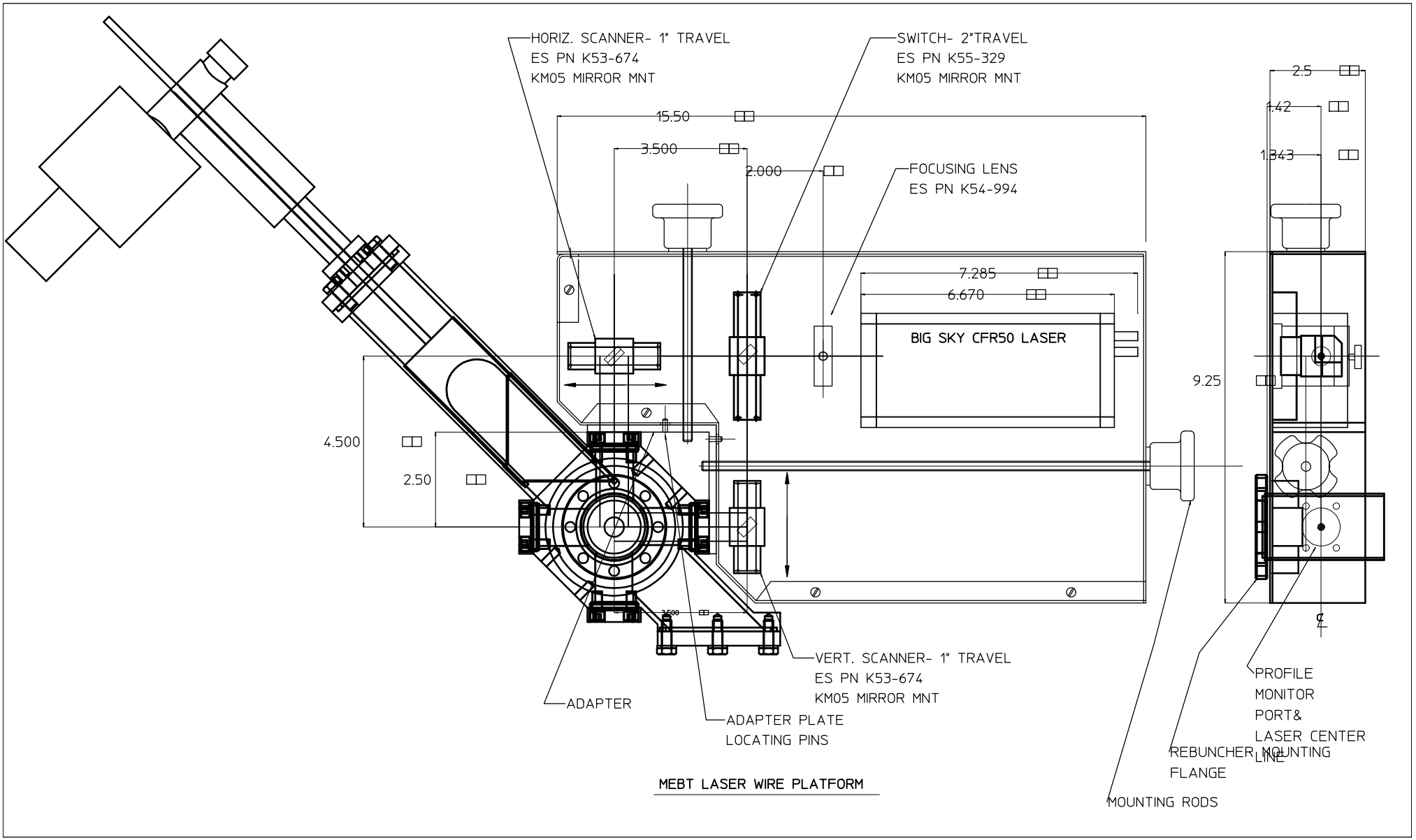
7) Scraper Beamox: Add a profile monitor beambox in the scraper location, rather than a beampipe that may have to be later replaced.

8) Chopper Alignment Requirements: Review the alignment requirements for the Chopper Beamboxes.

9) Fiducialization of Flanges: Consider referencing the outside diameter of flanges. Fiducialization of the flanges w.r.t. the mounting plane could aid in shim selection.

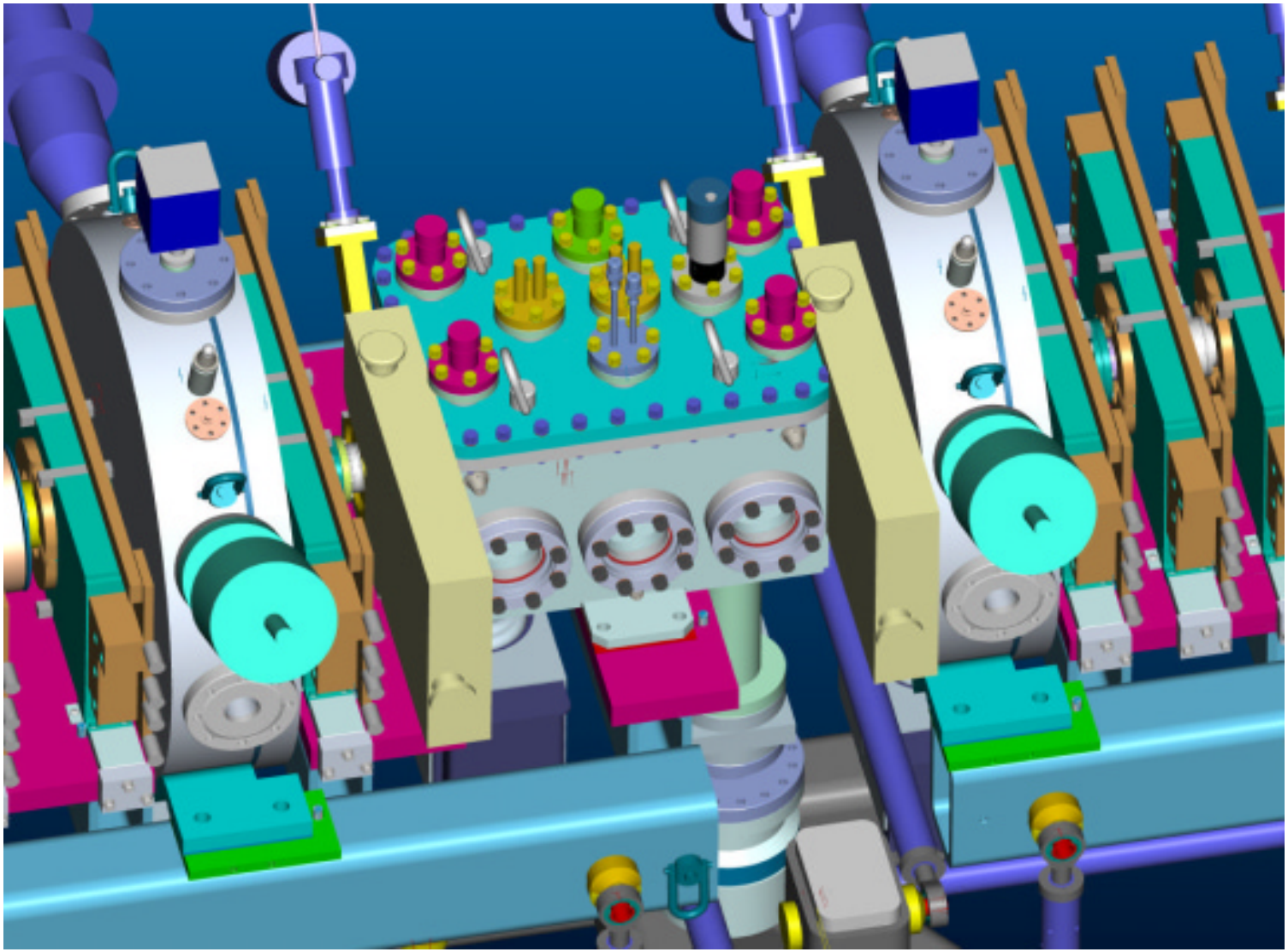
10) Building 71 Assembly: Develop a plan for setting up space for raft assembly in Building 71.

11) TBD: Perform engineering calculations to determine dynamic loads, deflections, and stresses during operation, handling, and transportation and complete appropriate documentation.

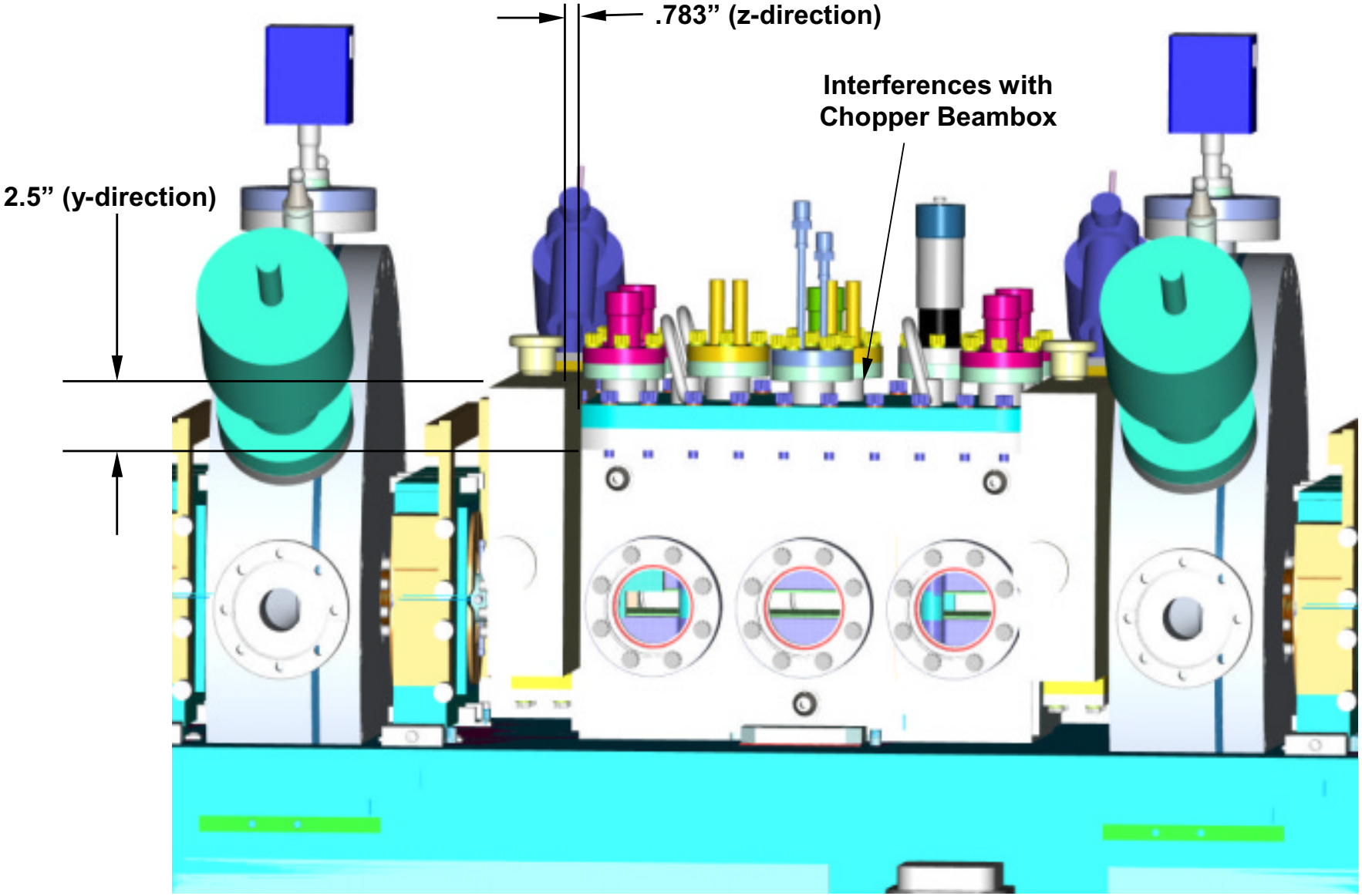


MEBT LASER WIRE PLATFORM

Laser Wire Boxes around Chopper Beambox



Profile Mon. #1 Location



Profile Mon. #2 Location