TSET Installation Meeting Minutes (3/25/99)

Subject: Conventional Facilities to Installation Interface

Clay Corvin presented information to clarify interfaces between Conventional Facilities (CF) and installation and explained what CF is planning to provide to each area at beneficial occupancy. He stressed that the cost model is an austere one and that the area managers need to let him know when the model is not adequate.

The following items were discussed:

1. Present design for the tunnel diameter is 14 feet interior diameter throughout all areas. The floor width is design to be 9 feet wide. Tunnel depth is assumed nominally 46 feet.
2. Access ports requirements are to be specified by each area manager in terms of number, size, and frequency. The mode of transportation into tunnel is assumed to be an elevator. Area managers will supply CF with maximum requirements (size, weight).
3. Floors are to be poured concrete, with a flatness of +/- ½ " over a 10 foot length. The floor will follow the curvature of the earth. There is to be a slight crown in the center of the floor with drainage recesses at either side adjacent to the walls. There was general discussion on what type of sealing would be required to provide a “clean enough” tunnel and when this sealing would occur. CF will paint or seal the walls and/or floors when required, however sealing type, timing and locations are to be specified by each area manager.
4. CF will not provide any structure on the walls for supports. Clay cautioned us that the walls will not move with the floor over time.
5. CF will provide a remote fire monitoring and suppression (sprinklers) system in the tunnel and support buildings.
6. CF will not provide anything for a tunnel conveyance system.
7. The global coordinate reference system provided will be for the surface grid and monuments required to construct the support buildings and tunnels. It does not include an alignment reference system for the beam line. The alignment group will provide additional information on what is needed for both global and area requirements.
8. CF will provide ac power distribution complete with outlets. Outlets are planned to be a quadraplex every 22 feet and will supply 120 VAC. (Is this the plan for both in support buildings and tunnel?) The need for 480 VAC for welding operations in the tunnel was discussed. In the support buildings it was discussed that CF will supply panels, but that the rack installation will take care of the “home run” interconnections (AC service from rack to panel and rack to rack).
9. CF will supply a LCW water system with terminations for hose attachments.
10. CF will supply ambient temperature control and ventilation system as required by safety regulations.
11. Lighting system will be complete, but the model is to provide only “warehouse” type lighting. There was general discussion that this would not be adequate for doing installation.

12. CF will provide for compressed air terminated for hose attachments where required. CF will not provide nitrogen.

13. CF will provide a telephone system.

**Action Items:**
The following items were identified as having possible significant cost impacts to the CF estimate and should be reviewed in the near future. Carl Rago agreed to begin researching these issues with the goal that we provide CF with area requirements.

1. Inadequate lighting in tunnel
2. Need for 480 VAC in tunnel
3. Floor and/or wall sealing requirements

It was recommended that a more formal method of transferring information from area managers to conventional facilities be established.