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NBI Upgrade Weekly Status 1/13/12

1 message

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Thu, Jan 12, 2012 at 4:20 PM

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Mike,

NBI Upgrade: A Job status meeting was held this week with all jobs reporting and tracking well. Opportunities to accelerate schedule were discussed.

NBI Armor: A change in graphite tile material for the armor has been required due to availability. Impact will be minimal. Backing plate fabrication is done. Water tube brazing will be performed in the Braze Shop. Armor support fabrication is in progress. The Bay H port has been evaluated and will be adequate in size to accommodate all armor water and TC feedthroughs which improves and simplifies installation.

NBI Relocation: Work included a peer review on calculations, BL lift fixture, procedures, and prerequisite preparatory work in the TTC and NTC. Methods to move the BL into the South High Bay area were discussed and include oak rollers, cadillac bearings, and aero castors which are favored. Evaluation of doorway lintel removals has started. Evaluation of the lid lift and move is started.

NBI Power System: A favorable quotation for the NB triax and terminations has been received. 600 V and high voltage cabling has been requisitioned.

NBI Controls: Equipment installation in the NB Gallery racks is complete for hardware in hand. Additional controls equipment requisitions are being prepared. Drawings are progressing steadily. Cable trays have been routed, added to the general arrangement drawing, and parts have been requisitioned. Progress continues on power supply electronics modifications.

NBI Refurbishment: Work continues on BL calorimeter, duct flanges, and TVPS parts. Calorimeter bellows have been received and end flanges are being welded. Bellows leakchecking is in progress. The calorimeter bridge and struts are in progress. The drive motor and gear box have arrived. Installation of cryo insulation for the BL lid cryopanel has started with measurements and evaluations of technique. The ion dump brazing specification is nearly complete. Parts are on order for the 90 inch flange OMA lids.

NBI Services: The cryo piping material has arrived so a fabrication area will be set up to make cryo lines in NBPC. The water system drawings are nearly complete and a procedure is in progress. Elephant trunk station locations in the NTC and South High Bay have been chosen for installation.

NBI Duct and TVPS: Equipment removals at the Bay K midplane have progressed so far that a full evaluation of space and clearances for the cap installation could be made. Procedures for installation of VV reinforcement supports and for removal of the Bay K and J nozzles are in development. The Bay K cap and port extension specification is drafted and in review. Evaluation of the circular bellows continues for a make versus buy decision. Minor drawing changes are in progress for some simplifications of flanges and interconnections. A requisition for the Torus Interface Valve is imminent.

Regards,

Tim

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