OSB Meeting

Thursday, June 19, 2008 at TRA-670

Dry Transfer Facility:

- Background:
  - Planning to modify unused, existing Gas Cooled Loop Facility Hot Cell into the Dry Transfer Facility. Located in southeast corner of first basement, adjacent to 1B cubicle. Purpose of modified facility is to size TMIST/AGC/AGR experiments for shipment in GE-2000 cask to MFC for PIE. Shipment has weight and size limitations.
  - Located in southeast corner of first basement of ATR.
  - GCL cell originally had 4 master-slave manipulators (2 pair), one shield window installed, possibly second, overhead crane, periscope, and PaR
  - Only one shielding window left in place; PaR frame, crane rails in cell; balance of equipment has been removed.
  - TMIST scheduled to come out of reactor in mid-November and has to be sized immediately after removal from reactor

- Proposed Modifications – provide for limited remote handling capabilities for sizing operations in a dry environment:
  - Install four (2 pair) master-slave manipulators
  - Install overhead one-ton bridge crane on existing bridge rails
  - Refurbish existing shielding window – cloudy, glass needs polishing, and cover gas system needs to be installed
  - Fabricate and install new shielding window in second opening
  - Modify ventilation system so ducting from room directly to existing blower. Existing ventilation system is not used.
  - Make cell door operational – blocked off with stainless steel enclosure when entryway converted into a decon area
  - Install in-cell cameras for sizing operations
  - Miscellaneous work – electrical circuits for tooling, etc.
  - Fabricate tooling to size experiments - design and fabrication in-house
    - New shielded cask insert to transfer sized experiment into GE-2000 Cask. Size and weight limitations
    - Framework to hold cask insert and tooling
    - Tooling to size experiments. Will be operated using master-slave manipulators.

- Status:
    - Design 95% complete. Design for cell mods being finalized this week. Specification will then be finalized and submitted to purchasing.
    - Getting quotes for master-slave manipulator modifications – using new, existing master-slave manipulators from excess that have to be modified due top limited headroom. Request for Proposal is under SOW—6257.
    - Shielding window requisition has been submitted, approved by SFG. New window will be made using existing glass from unused, excess shielding windows. This work is to be performed using SPC-1014.
    - Crane procurement scheduled to be approved next week. Will be installed as part of cell modifications. The crane is to be procured using SPC-1013, and the cell modifications will be performed using SPC-1024
    - Tooling design in progress. In-house fabrication and testing

- Evaluation has determined it is not a major modification – in final review and approval stage
- SAR being evaluated and work being evaluated to determine modifications to SAR.
- USQ(s) in progress

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6/19/08