Hg System Assembly and Testing Status

V.B. Graves
P.T. Spampinato

MERIT VRVS Meeting
Dec 20, 2006
Beam Windows

- Secondary beam windows received and installed
- Problem with bolt pattern on downstream window was corrected
Hg Vapor Filter Boxes

- Filter boxes received, installation nearly complete
Vapor Monitor Tests

- Both vapor monitors (Jerome 431-X and Mercury Instruments VM3000) tested to verify ability to read vapors through 10m, small-dia tubing
  - Jerome samples every 5 minutes, VM3000 continuously samples
  - Both units detected elevated vapor levels
    - VM3000 within a few seconds
    - Jerome within 2 samples

- Signals integrated into Labview control system
  - VM3000 output correctly read by Labview
  - Having some difficulties with the Jerome unit, discussing with vendor tech support
Shipping Crates

- Custom crates for Hg system and HPU delivered

- Commercial boxes and pallets delivered
  - Certified for international shipment (ISPM-15)
CERN Hg Shipment

- Initiated process to ship Hg to CERN separately from target equipment
  - Hg for MIT tests will be included with equipment and shipped back to ORNL afterwards

- Overpack containers being procured

- Flask handling and filling process being defined

- Expect to ship by air in January
Current Status / Next Steps

- Finalize secondary containment assembly and leak check
- Prepare Hg flasks for shipment to CERN
- Awaiting delivery of new Ti nozzle