Hg System Assembly and Testing Status

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MERIT VRVS Meeting
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Hg System Assembly Test

- Successfully completed assembly testing
- Transferred Hg system from transporter to common baseplate
Basic Assembly Process
Baseplate Shipped to MIT

- Common Baseplate with floor liners shipped to MIT Nov 21
- All attachments removed and packed in separate box with liners
Hydraulic Hose Issue Corrected

• Replaced flex hoses with rigid tubing
SS Nozzle Issues

- Supply piping for two nozzle configurations had different lengths
- Longer piping being shortened
- Flex hose too long, being replaced with correct end fittings
RTD's Installed

- Eight resistive temperature devices (RTD's) installed within secondary & integrated with Labview
  - Hg in sump
  - Hydraulic fluid
  - Hg near cylinder inlet
  - Air temp in secondary
  - Downbeam primary window
  - Downbeam bore air temp
  - Upbeam bore air temp
  - Nozzle flange/reducer
Hg Fill/Drain Process Developed

- Methodology developed, procedure being written
- Process to be tested with water
Current Status / Next Steps

- Perform fill and drain procedures using water
- Complete primary containment
- Leak testing
- Run water tests with Nozzle A
- Install optical diagnostics
- Switch to Nozzle B
- Complete secondary containment
- Final preparations for Hg