

4V CM1 Remote Handling Joint

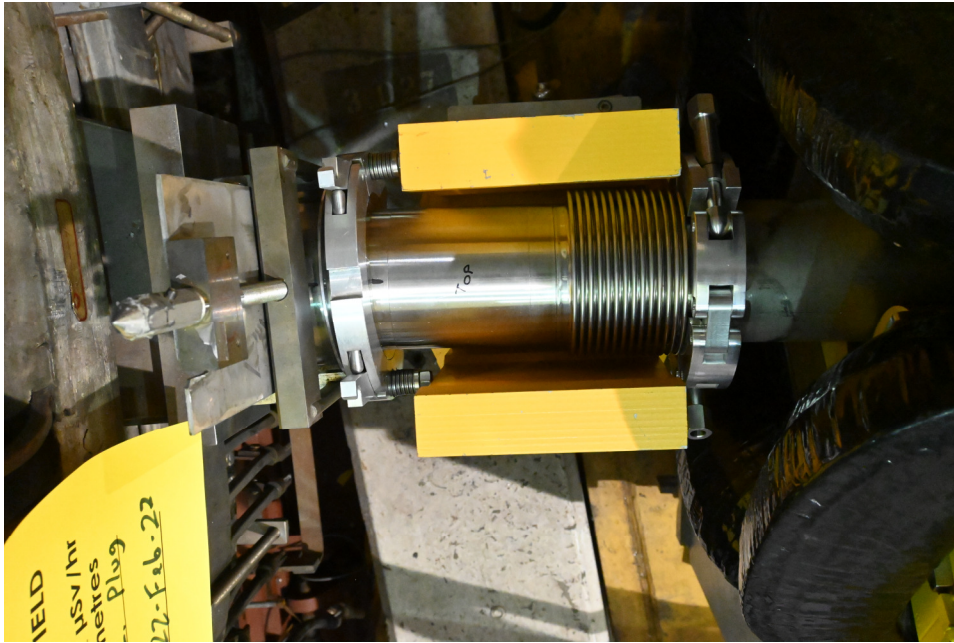
May 6, 2022 11:18 AM

Removed blank off and put in to north vault tunnel rad storage (Rad Waste Inventory #1537) photo of joint before blank off removal.

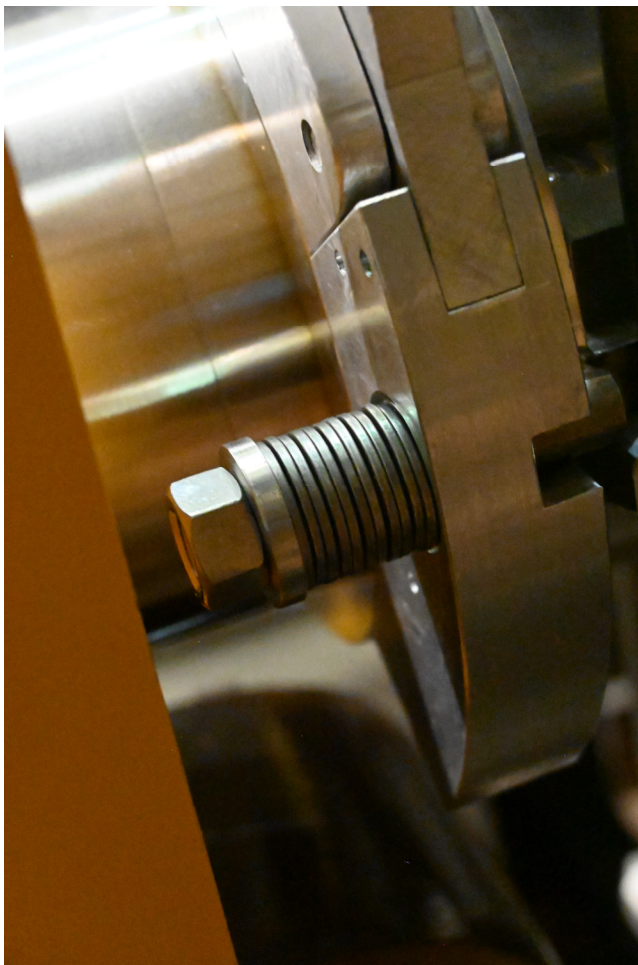


Installed indium joint at 4V CM1:

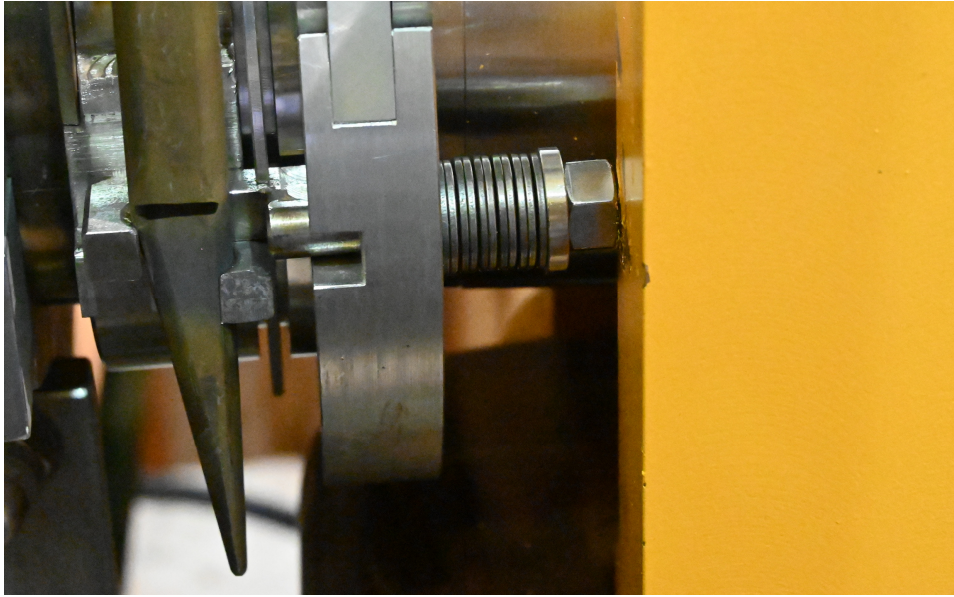
- Joint uses 17mm hex pin drive...
- Beam tube has an angled flange connection.
- Steerer magnet interferes with install envelope... will be a problem for future removal and install of indium joint
- Spring eye nuts were installed 1.5 turns from finger tight (did not measure the preload compression of 20.5mm from)



View from west side of joint after 24h+



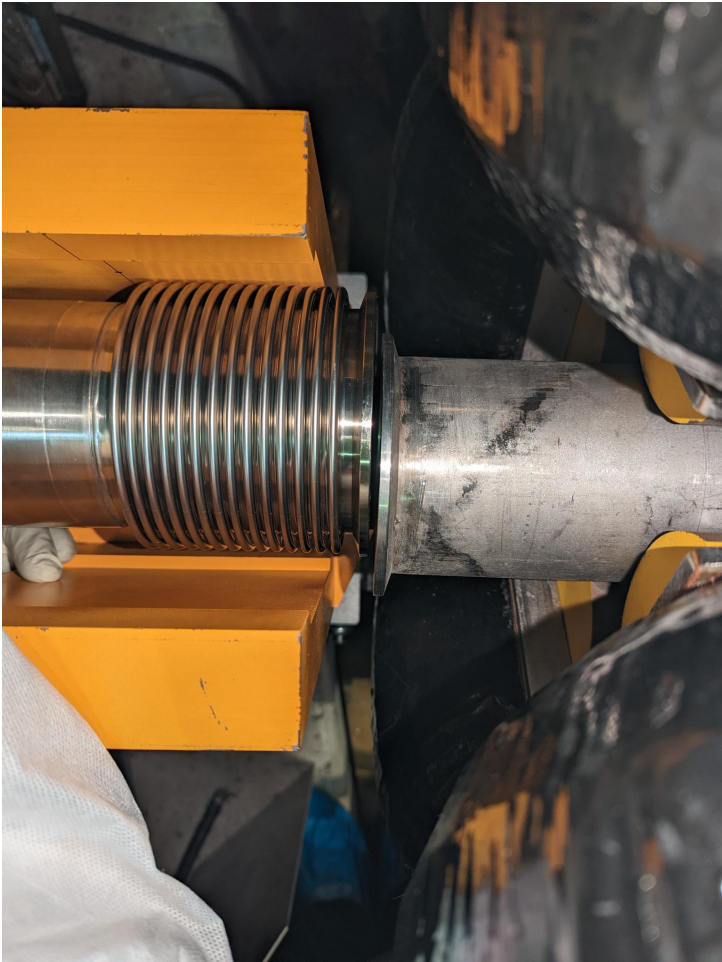
View from east side of joint after 24h+. Note how there is ~1mm gap between spring eye and the magnet steel (in yellow).



Magnet steel is captured "tightly" between the chain clamp and the indium joint, the magnet will be need to be moved or removed to take the indium joint out



Beamline flange before the downstream magnets were shifted to the scribe line on the stand base at around 17mm of offset. 2022 shutdown installed position was along original scribed beamline on the floor.



To do:

- Make spare 4" blank off plate (D-7385)
- Roll some spare 4" blank offs (B-3471)