

Proton Detector Installation Status Report – August 4th 2013

Installation Dates

July 22nd - August 12th

FIU and PPPL External Collaborator

Schedules

- Onsite July 22nd – September 13th
 - Ramona V Perez (FIU)
- Onsite August 5th – August 16th
 - Werner Boeglin (FIU)
 - Adrianna Angulo (FIU)
 - Carlos Lopez (FIU)
 - Omar Leon (FIU)
 - Pierre Avila (FIU)
- Onsite August 12th – August 23rd
 - Douglass Darrow (PPPL)

Completed July 22nd – August 3rd

- MMAC approval
- Paperwork for working with radiation source
- RFEA probe removed from RP
- Equipment testing with radiation source in D1.07 lab
- RP linkbox modification and mounting
- PD mechanical housing alterations for BN shield and RP plug assembly
- BN shield fabrication
- BN shield graphite coating
- PD cables and electronics installed in MAST test cell area and MD05 cubicle
- Approval to power on PD equipment in MD05 cubicle
- Equipment testing with radiation source in MAST test cell area
- DATAC PD computer connection
- DATAC Trigger signal testing
- PD data acquisition software updated
- Airside RP cable connections
- Vacuum RP cable connections
- Cleaning PD mechanical housing parts in sonic bath
- Obtaining HDF5 file for low TF shot

Planned Tasks August 5th – August 12th

- Test equipment with radiation source (including new RP vacuum and airside connection cables) in MAST test cell area
- Assemble probe head
- Bake complete assembled probe head (1 day)
- Install probe head on MAST RP
- Pump down and bake PD probe head and RP (2 days)
- Final PD equipment and software test

Issues/ Comments

- PD Vacuum cable cores are relatively small for the pins used in the RP plug (issue will be resolved by August 6th)
- Will speak with Nigel Thomas-Davies and James Harrison by August 6th regarding obtaining MAST shot number through a method other than MDSplus