

MIRP Operations –5-7/2016

- **Safety**

- Annual Review for Ac-225 July 27th and 28th
- MIRP S&T review Dec. 2016

- **Production**

- Processing 8th set of targets shipping friday
- 9th set of RbCl targets inserted into beam 6/7 @ 1038
- Processing starts??
- Processing GaAs target??

BLIP Target Data– 5/2016

- **9th Set of RbCl Targets (BWM and BWN)**
- Total Accumulated uA/hr as of 6/20/16 @ 2359 – 43,757.67
- Total Hours – 304.44
- Average Current – 143.73uA/hr
- SOB- 6/7/16 @ 1038.... EOB- 6/27/16 @ 0900
- **FINAL GALLIUM DATA**

Target Ga-BWZ	
Total uA's	19400.81
Total Hr's	177.32
Total Days	7.39
Avg. current	109.41

TPL Operations– 5/2016

○ TPL Maintenance

- Finishing work on ventilation panel –final calibration next weeks.
- Electrical work at TPL this week: install LED lights above hot cells, clean lenses to remove bugs.
- Spraying for bugs this weekend

○ BLIP Maintenance

- Next maintenance day was today June 21st but since LINAC had problems with the source again on the 20th maintenance got done during that time and will be rescheduled for a later date.

Research- 5-7/2016

- **Research**

- Normal Thorium target 2:00 pm on June 30th and end at 8:00 am on July 5th .
- Nick Simos Mo-graphite targets will be run behind the thorium targets and possibly 3 additional weeks at 160 MeV
- Thorium foil run for research, 0.5 hr run, immediately after normal thorium run
- Large Thorium target test run, cook and look at 160 MeV, 130 μ A current
- Sc target will run behind the thorium target in the C slot for duration of thorium and Simos irradiation.

Research- 5-7/2016

- **Research**

- **June 22nd** dedicated 66 MeV incident energy on two natural osmium targets to determine optimal energy for Re-189 production.
- **June 22th**; dedicated 66 MeV incident energy degrade to 45 MeV to run two zinc foils for an hr.
- **Mid-July**; As target run as beam degrader for RbCl targets to assess Se-72 production at LINAC energy of 117 MeV energy on target will be tailored using beam degraders.
- **June-July**; 2 Zinc foils, dedicated run at incident 117 MeV energy on target will be tailored to 108 and 45 MeV using beam degraders.

Research- 5-7/2016

- **Research**

- **Mid June-July 31**; W and Os targets, multiple irradiations (**5-8**) at incident LINAC 66 MeV, energy on target will be tailored using beam degraders, for 0.5-1 hr 40-TBD uA unrastered beam.
- **July**; Large Zinc target, incident 140 MeV

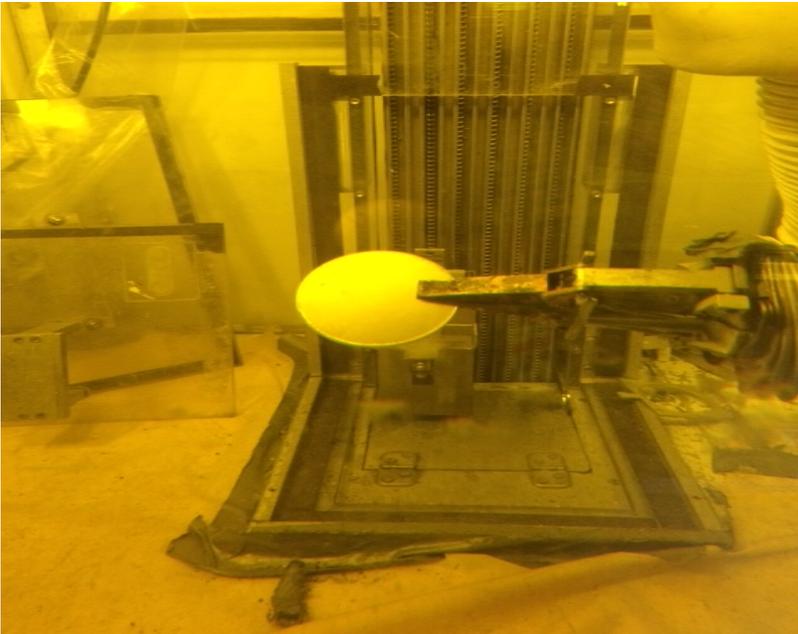
- **Total projected (Mid-May thru July):**

- Foils: 2
- Bolted Aluminum: 11
- Parasitic w/RbCl/Thorium: 4

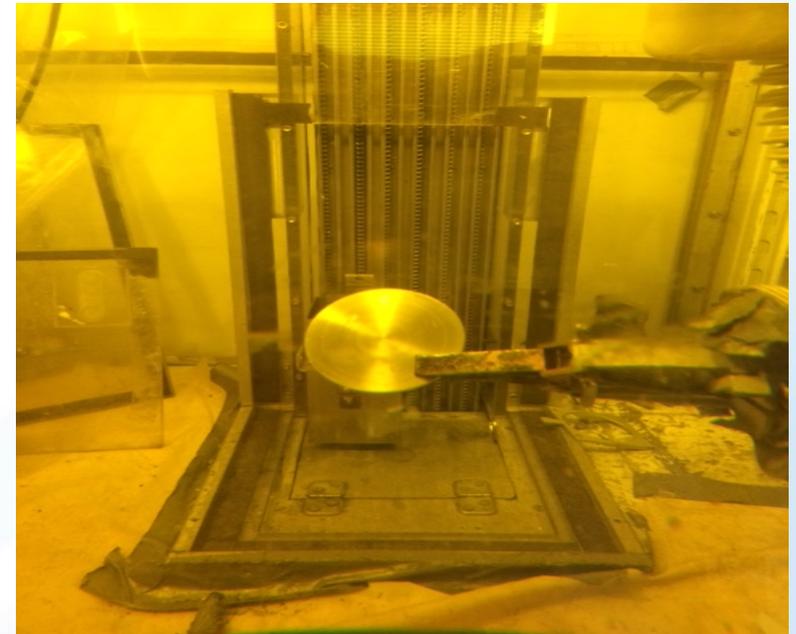
GaAs target

Targets	
GaAs- BXA	
6/8-6/13	
Total uA's	15883.83
Total Hr's	116.43
Total Days	4.85
Avg. current	136.43

Front of GaAs target @ end of beam



Back of GaAs target @ end of beam



Se-72 Cross Section numbers

