

BLIP Operations – 2/2016 – 3/2016

- **Safety**

- Meeting to discuss application for GPP funds for production upgrade funding for single program for Ac-225 processing
- Looking over previous audits to prepare for Bracco Audit
- Bracco audit March 29-30th
- Isotope Program Strategic meeting April 20-21st

- **Production**

- 3rd set of targets came out of beam February 24th.
- Moving RbCl targets Tuesday or Wednesday.
- Third Sr-82 Production will start Thursday. This set has the most accumulated current in our history so we need to determine the activity levels to proceed with processing. We exceeded previous accumulated current by approximately 35%.
- 4th set of RbCl targets were inserted in behind the thorium in box 2.

BLIP Target Data

- **4th Set of RbCl Targets**
 - Total Accumulated uA's as of 2/29/16 @ 23:59 – 15,236.57
 - Total Hours – 109.16
 - Average Current – 139.59
 - SOB- 2/24/16 @ 16:12 EOB- 3/18/16 TBD
 - 3rd set of RbCl targets will be transferred to TPL today or tomorrow.
- **Thorium Target - BVV**
 - Total Accumulated uA's – 16,919.05
 - Total Hours – 120.15
 - Average Current – 140.82
 - SOB- 2/24/16 @ 16:12 EOB- 3/1/16 @ 1100
 - Thorium Target was removed from beam today @ 1100 and will be transferred to the TPL either today or tomorrow depending on dose rates.

TPL Operations– 2/2016 – 3/2016

○ TPL Maintenance

- Ongoing work on the D tanks
- Target Can opener was repaired and tested yesterday
- Painting and repair to walls/floors/ceilings.

○ BLIP Maintenance

- Shutdown for 2 hr to calibrate the Veltron stack flow monitor
- Next maintenance scheduled for March 8th

○ Research

- Thorium target irradiation February 24th, Shipment March 9th
- GaAs March 18th , Zinc foil March 1st

Thorium Targets manufactured at LANL

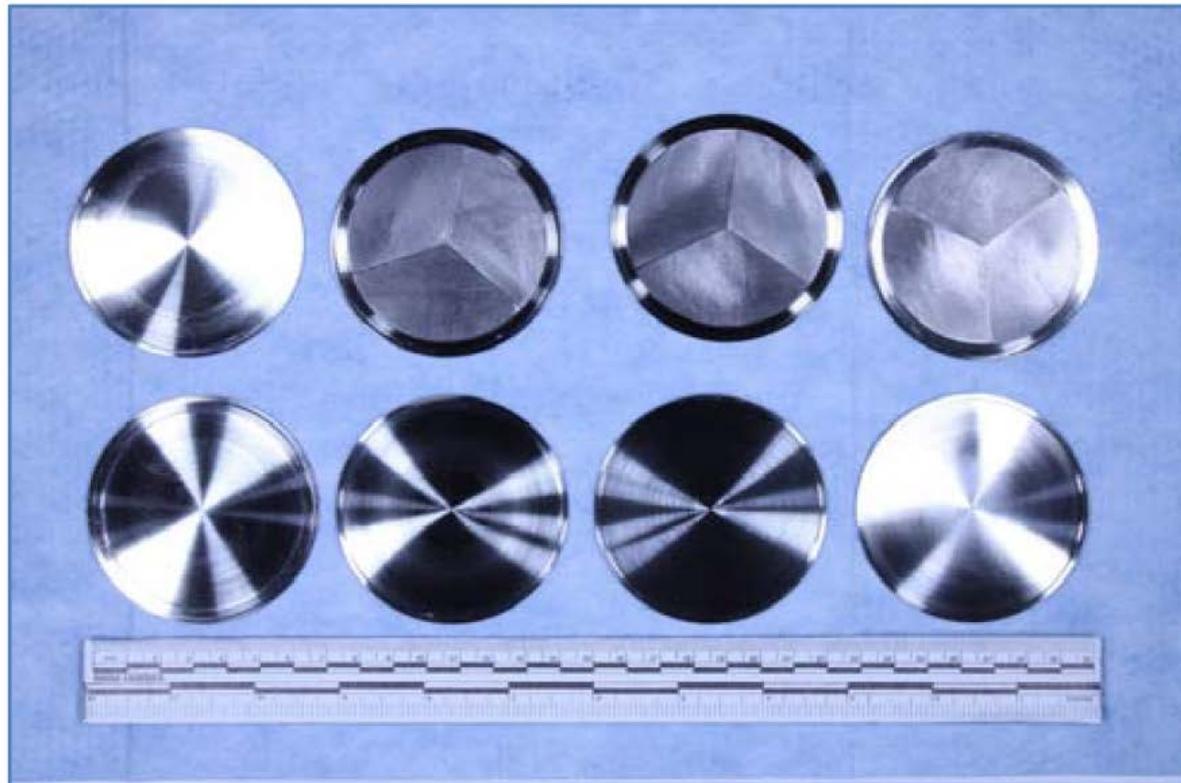


Figure 2. Machined components for BNL targets. From left to right, weld test specimen, three thorium target assemblies.

Thorium Targets manufactured at LANL

Back of the target

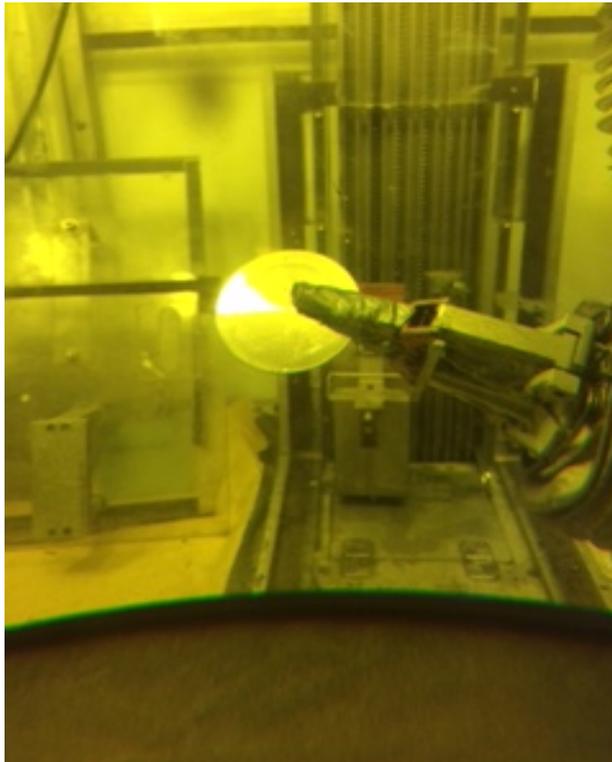


Front of the target



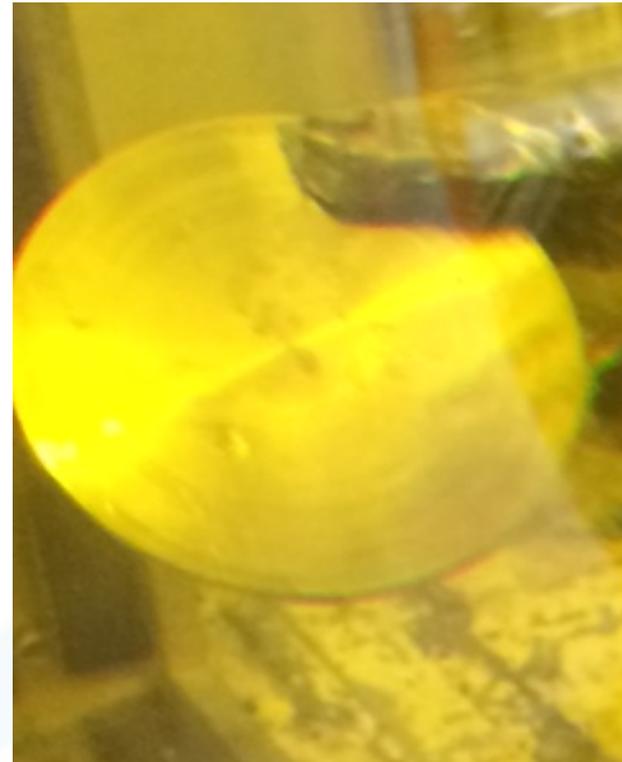
Targets 24 hr after Irradiation

Target window is 0.020 inches thick



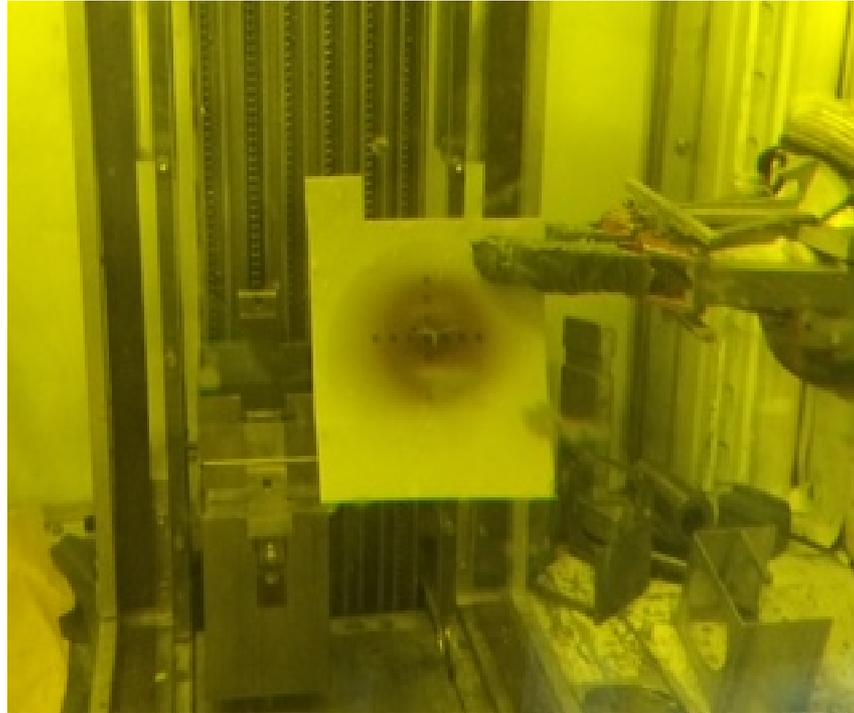
Front of Th target

Target window is 0.038 inches thick



Back of Th target. Hard to tell but the back has writing engraved on it.

Radiograph of the beam



This radiograph was taken right before we inserted Thorium target and RbCl targets into beam @ 200 MeV @ 150 μ A/hr. Showing Beam is centered and covering more area than the Gaussian beam.

Rastered Proton Beam

Vacuum Sealed Th Target

He filled target at 230 μA

