

BLIP Status

▪ Safety

- Ni-63 contamination in TPL (~a week ago) – Decontamination mostly complete, maybe complete decontamination today

▪ Production

- RbCl target (Sr-82 production) irradiation started 5 Jan, 116 MeV
- Plan to remove first BLIP target and insert new target on 26 Jan (3 weeks)
- Plan to start Strontium chemical separation in the TPL on 2 Feb
- Plan first delivery of Sr-82 to first customer on 11 Feb

▪ Research/Other

- Foil activation for BLIP current calibration completed on 7 Jan.
- 13-23 March 2015, Irradiation of Thorium target for Ac-225 research, 200 MeV, 10 days full current, concurrent with Sr-82 production
- Other R&D irradiations to be scheduled

BLIP p-Aluminum activation study for current integration comparison (1/7/15, 10 minute irradiation – LE, SK, DM)

Average current calculated from BLIP current integrator readings

- BLIP (local) Integrator = 114.42 μA
- Raster system integrator (MCR) = 113.22 μA

Average current deduced from activation measurements

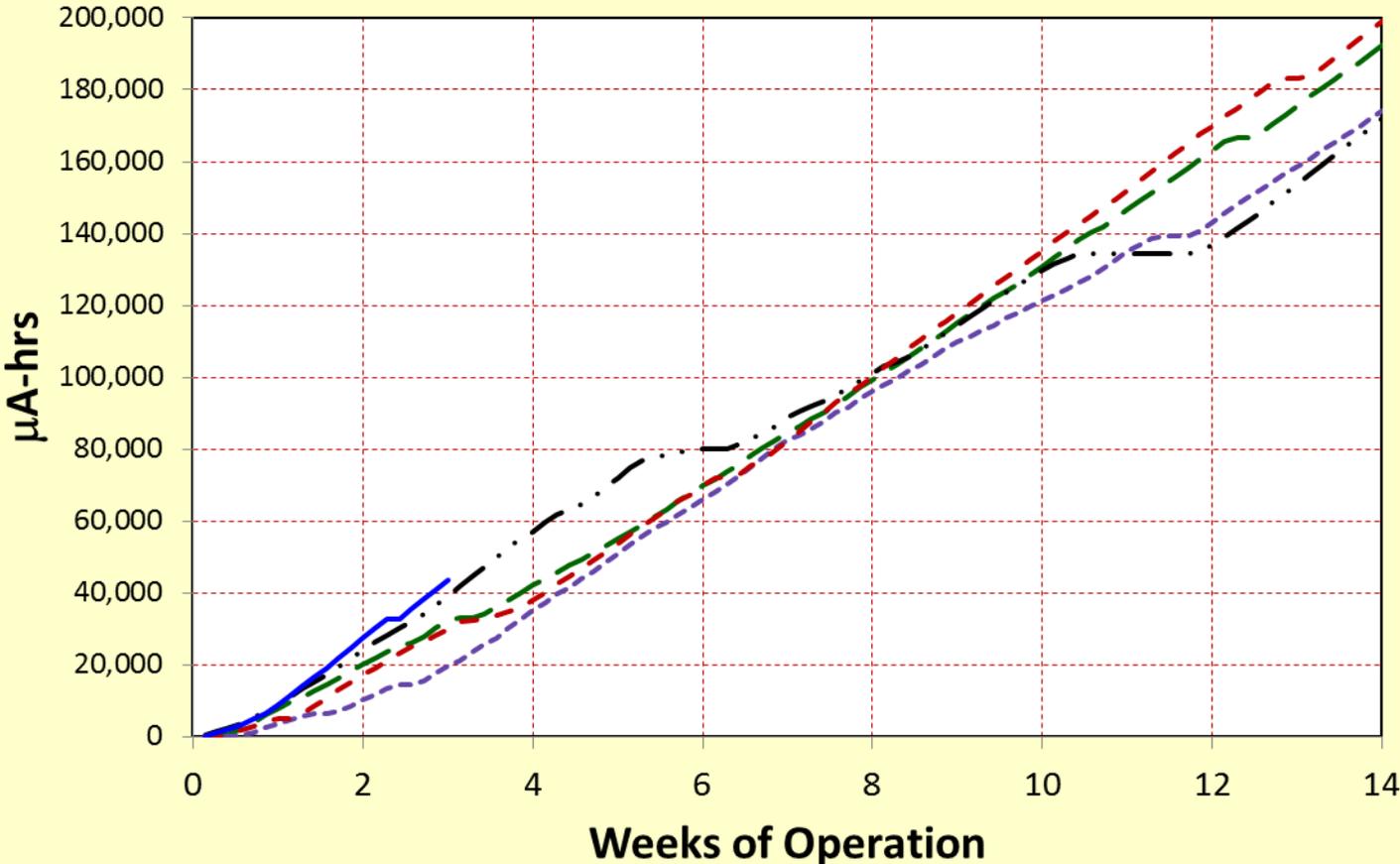
- Square foil:
 - From Na-22 activity: $I=111.0 \mu\text{A} \pm 10\%$
 - From Na-24 activity: $I=113.8 \mu\text{A} \pm 10\%$
- Circle foil:
 - From Na-22 activity: $I=112.0 \mu\text{A} \pm 10\%$
 - From Na-24 activity: $I=107.9 \mu\text{A} \pm 10\%$
- Average = $111.2 \pm 2.5 \mu\text{A}$ (standard deviation)

Conclusion,

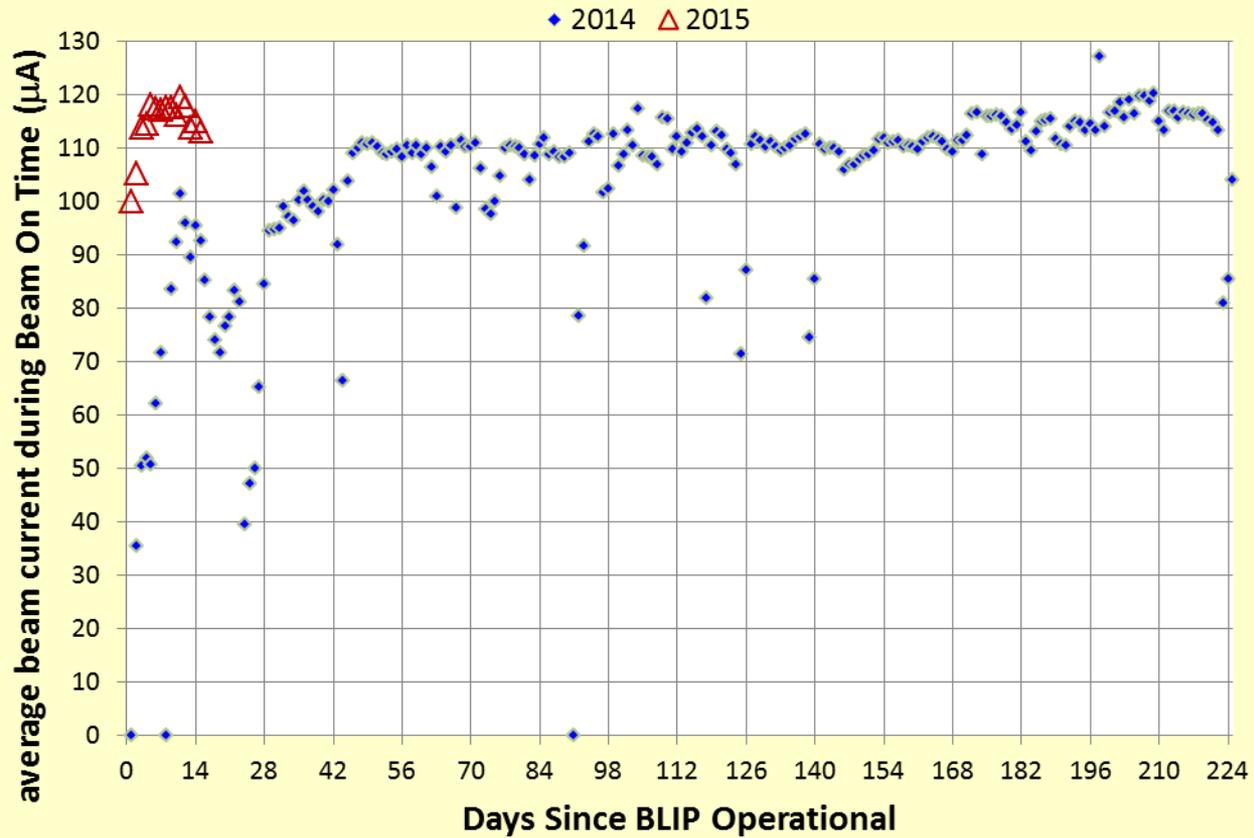
- within errors, integrator readings are in agreement with measurements

BLIP Accumulated μ A-hrs

FY2011 FY2012 FY2013 FY2014 FY2015



BLIP, LINAC Beam Intensity, FY 2014 and FY 2015



BLIP average beam current (LogView), 5 Jan – 20 Jan 2015

BLIP average beam current (microAmps)

