

BLIP Operations 3-27-12

- Status – not running
 - Average beam current zero. Weekly operations for zero hours.
- Issues
 - Shut down due to vacuum leak in AlBeMet window caused by apparent corrosion. The situation appears identical to the failure one month ago.

Water window



01/11/2007

Front view AlBeMet window



Leaking AlBeMet vacuum window

Bottom view



Top view



Leak investigation

- During several beam line entries the vacuum window has been removed and closely inspected. It shows signs of corrosion at the bottom and dripping from above. The water window was wet but gamma ray assay of swipes of this surface and swipes of the ALBeMet window do not match the isotope content of the BLIP cooling system. Also checking of the water window removed last month in the hot cells in building showed no leakage. The weight of evidence now is that there is no leak from the cooling system. Therefore we will not replace the water window. Investigation into source of moisture continues.
- Approach for repair tomorrow is to treat the moisture symptom by installing a flow of dry nitrogen into the area of concern and putting a drip cover over the ALBeMet end cap.