



Michael Foxe, Brittany Abromeit, Ben Asher, Theodore Bowyer, Ian Cameron, Caden Carter, Matt Cooper, Jason Crosen, Thomas Hallen, James Hayes, Ricky Lavergne, Lance Lidey, Michael Mayer, Jennifer Mendez, Rose Perea, Johnathan Slack
Pacific Northwest National Laboratory

P3.2-763

- Our poster describes the Post-processed Radioxenon Isotope Measurement and Evaluation (PRIME) system for laboratory measurements of radioxenon.
- The system is capable of processing 4 archive containers in series and performing subsequent parallel nuclear measurements.
- Nitrogen is used to push the radioxenon into the nuclear detector for near complete transfer efficiency.
- Automated software allows for a hands-off gas processing routine.



Acknowledgements:

The authors wish to acknowledge the funding support of the Nuclear Arms Control Technology Program of the U.S. Department of Defense, Defense Threat Reduction Agency
Cleared for Release

The views expressed here do not necessarily reflect the opinion of the United States Government, the United States Department of Energy, or the Pacific Northwest National Laboratory

PNNL-SA-215680