



IMOG - Gas Technology Subgroup

2017 Status Report

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January 24th - 25th 2018

2017 Gas Technology Meeting



- Date/Location:
 - May 8th – 11th, 2016. Pacific Northwest National Labs, Tri-cities, WA.
- Participation:
 - 30 attendees, with representatives from all sites:
KCNSC, LANL, LLNL, PNNL, Pantex, SNL (NM & CA), SRS, SRNL, AWE, and Y-12
 - 12 presentations, 3 Round Table Discussions, and Tour of the Radiochemical Processing Laboratory (RPL).
- Notable Complex-wide Issues Discussed:
 - Passivation of Tritium cylinders – coatings, supplier issues, and update on current research progress
 - Worldwide Helium Shortage Update
 - Gas Standard vendors and He suppliers

Benefits

- Tangible
 - Direct communication and networking between similar working groups at the various NWC sites
 - Discussion of New Technologies and Capabilities that can be shared throughout the complex
 - Sharing of Lessons Learned to prevent similar issues and instrument problems
- Intangible
 - Understanding of different NWC activities and capabilities
 - Awareness of different methods available for problem solving
 - Awareness of emerging issues affecting gas analysis/technology
 - Having a network of experts to approach for advice/opinions

Potential Actions

- Consider collaboration with Tritium Focus Group for Round Robin analysis of gas standards at all willing complex sites in which gas analysis techniques are performed.
 - To be led by Chandra Marsden at LANL.
 - This IMO would be a great host for this round robin as all sites have some gas measurement capabilities while not all sites have tritium capabilities.
 - Hope to engage and start up this spring.
 - Would learn about equipment variabilities and site to site differences with measurement techniques and uncertainties.

Subgroup Evaluation

- The Gas Technology group has been quite active for at least the past decade
- Little to no problem finding meeting sites and hosts
- Funding changes with NTESS may cause some issues with funding the visit at SNL sites.
- Generally 10 to 30 meeting attendees, with up to 2 visitors from AWE
- Recommend continuation of this subgroup

2018 Meeting Plan

- Date/Location:
 - May 15th – 17th, 2018. Oak Ridge National Labs, TN
- Host: Oak Ridge National Labs
- Final assignment for next meeting will be made by March 15th 2018.
- Subgroup Executive Committee assignments will be rotated at this meeting for all three positions, and as such, a new secretary will need to be appointed at that time.
- Facility tour to be determined upon site availability
- Potential merging with Tritium Focus Group as with the 2017 meeting- higher attendance and participation expected