

# BWROG Target Rock SRV Performance Improvement Committee

Craig Shepherd (DTE) – Committee Chairman

BWROG/NRC Meeting  
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*BWR Expertise – Proven Solutions*

# History/Scope



Formed in 2016

Committee Scope: address the common causes of repetitive Target Rock 2-stage SRV as-found set-point test failures in the fleet.

- Technical Exchange Meetings: share site set point drift performance, best practices, roadmap planning
- 2-stage valve focus
- Scope focused on setpoint drift

Membership: DTE/Fermi, Duke/Brunswick, Exelon/FitzPatrick, NPPD/Cooper, PSEG/Hope Creek, TVA/Browns Ferry

# 2017/18 Activities



- Industry-shared IBAD procedure (application of Platinum to disc surface)
- Autoclave Screening Test - used to help develop sputtering application process of Platinum on test coupons and comparison to IBAD. Obtained positive results.
- Plasma Enhanced Magnetron Sputter Coating of (Quantity 3) pilot discs with Platinum. Performed steam validation testing with positive results. In process of obtaining BWROG product for utilizing Sputtering for application of Platinum on SRV pilot discs.
- Static Autoclave Material Screening - baseline conditions of corrosion bonding with control group and screening other materials. (Started Aug. 24, 2018)

# 2019 Planned Activities



Test different thickness of (sputtered) Platinum coated on pilot discs in valve lift tests.

- Sputtering opens process space for different thicknesses of Platinum Coating.
- Potential for fleet usage
  - Know that current thickness of Platinum coating provided step-improvement in set point drift performance.
  - Does increase in thickness provide more protection from corrosion bonding?

# LER Reduction



Initial scoping effort to understand current Tech Spec Limits and alternative licensing approaches.

- Not a funded project at this time.
- Initial discussions among multiple BWROG committees.