A Summary of Leak Detection Issues in API Standards & Recommend Practices

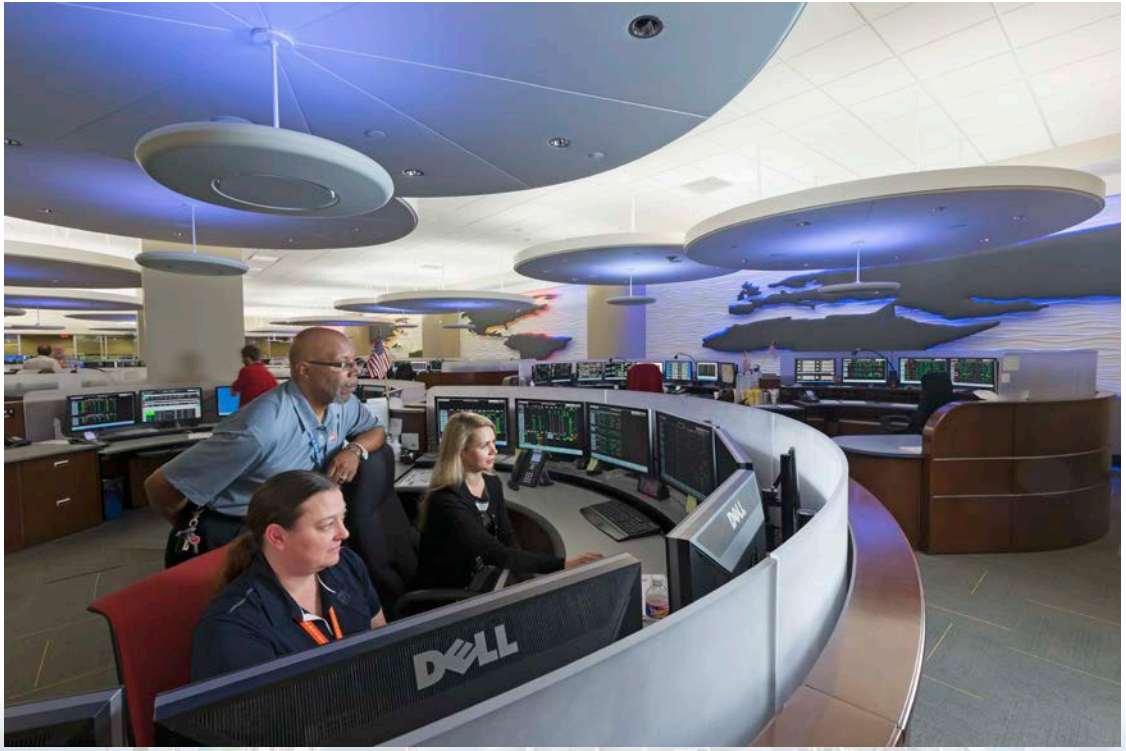
2018 PHMSA R&D Forum

September 12th, 2018

OBJECTIVES

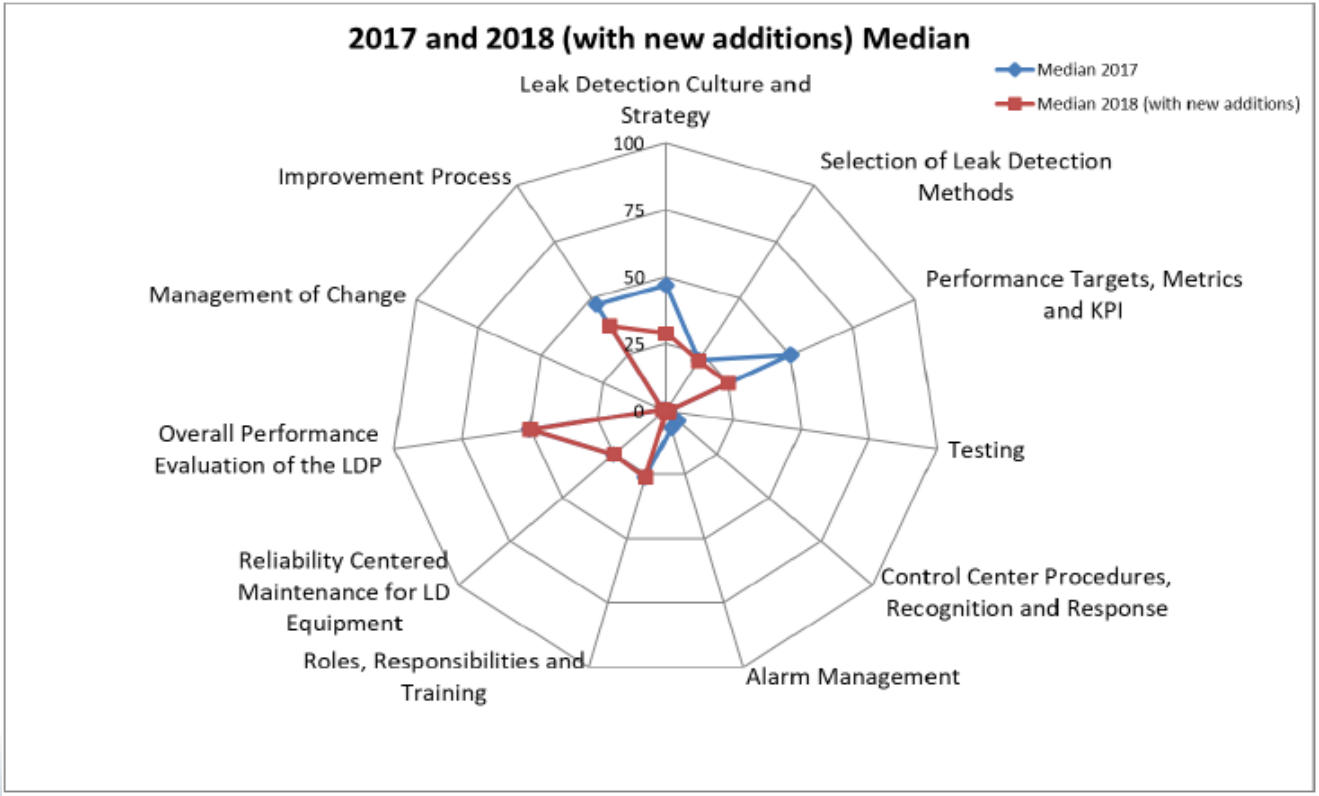
- Update and Discussion: API Leak Detection RPs and Standards
  - API RP 1175, *Leak Detection-Program Management* **(the Big One!)**
  - API RP 1130, *Computational Pipeline Monitoring for Liquids*
  - API RP 1149, *Pipeline Variable Uncertainties and Their Effects on Leak Detectability*
  - API STD 1164, *Pipeline SCADA Security*
  - API RP 1165, *Recommended Practice for Pipeline SCADA Displays*

API RP 1175 Status



- Second edition in progress
- Complete in 2019/2020
  - Revisions to be made based on feedback from Implementation Team and industry
  - API RP 1130 worked in parallel

API RP 1175 Implementation



The further from the center, the larger the gap.

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Where API RP 1130 Stands

- Reaffirmed in 2012 and 2017
  - But still progressing revisions
- Key Point: PHMSA incorporates
  - Want any changes to also be incorporated

- One Big Challenge: Measures Needed, not just for CPM

API Technical Report (TR) 1149 Latest

- Second Edition published in 2015
- PRCI Activities
  - Workshop in October 5, 2017
  - Presentation at the 2018 API Cybernetics Symposium

1164 and 1165 Updates

- STD 1164
  - Currently being reviewed and updated; 1st draft expected by 1Q19
  - Scope specific to SCADA and considers other cyber efforts
- RP 1165
  - Expect rewrite to extend into 2019

Thanks and Questions

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