



- Carol Wallace – Puget Sound Energy
- Brad Newman – EPCO
- Gary Medley – BP Pipelines
- Kenneth Dunkle – Buckeye



- Speakers:
- Gary Medley – BP Pipelines
- Kenneth Dunkle – Buckeye Pipelines
- Carol Wallace – Puget Sound Energy



Pipeline SCADA Alarm Management API RP1167 Development Update

Gary Medley - BP US Pipelines and Logistics
2010 API Cybernetics Symposium

Contents



- Current status
- CRM Rule
- RP highlights

Current Status and Timeline



- Workgroup has liquid and natural gas pipeline operators, academia, consultants, and vendors.
- Document has been through several comment rounds within the work group and larger stakeholder audiences.
- Document is ready for balloting and is being prepared for mail out to API members – May 2010.
- Expect to resolve comments and finalize document – target August 2010.
- Expect publication – target September 2010.
- Note: These dates are subject to change pending the balloting vote and number/type of comments received.

CRM Rules – CFR 192.631 and 195.446



- Issued in December 2009.
- Effective February 1, 2010.
- CRM Procedures must be developed by August 1, 2011.
- PHMSA review of Procedures between Sept. 2011 – Jan. 2013.
- Operators must implement procedures by February 1, 2013.



Subpart e). Alarm Management

- Each operator using a SCADA system must have a **written** alarm management plan to provide for effective controller response to alarms. The plan must include provisions/processes to:
 - Periodically review **SCADA safety related alarms** to ensure alarms are accurate and support safe pipeline operations.
 - Monthly identification of **SCADA points affecting safety** that have been off scan, generating false alarms, or put in manual for periods of time exceeding that required for associated maintenance or operating activities.
 - Yearly verification that **safety related** set-point values and alarm descriptions are correctly set.
 - Yearly review of the alarm management plan to determine the effectiveness of the plan.
 - Yearly evaluation of the content and volume of general activity being directed to and required of each controller to assure controllers have sufficient time to analyze and react to incoming alarms.
- **Note CRM workshop in early November to provide guidance to Operators.**



- Will include chapters on:
 - Definitions
 - Alarm definition and determination
 - Alarm philosophy (alarm management plan) – today
 - Alarm documentation and rationalization – tomorrow at 9:45 am in Grand Ballroom B
 - SCADA System Alarm Functionality and Alarm Design
 - Roles and responsibilities (of the review team)
 - Alarm handling
 - Alarm audits and performance monitoring – tomorrow at 9:45 am in Grand Ballroom B
 - Management of change
 - Appendix of examples

Questions ?

