

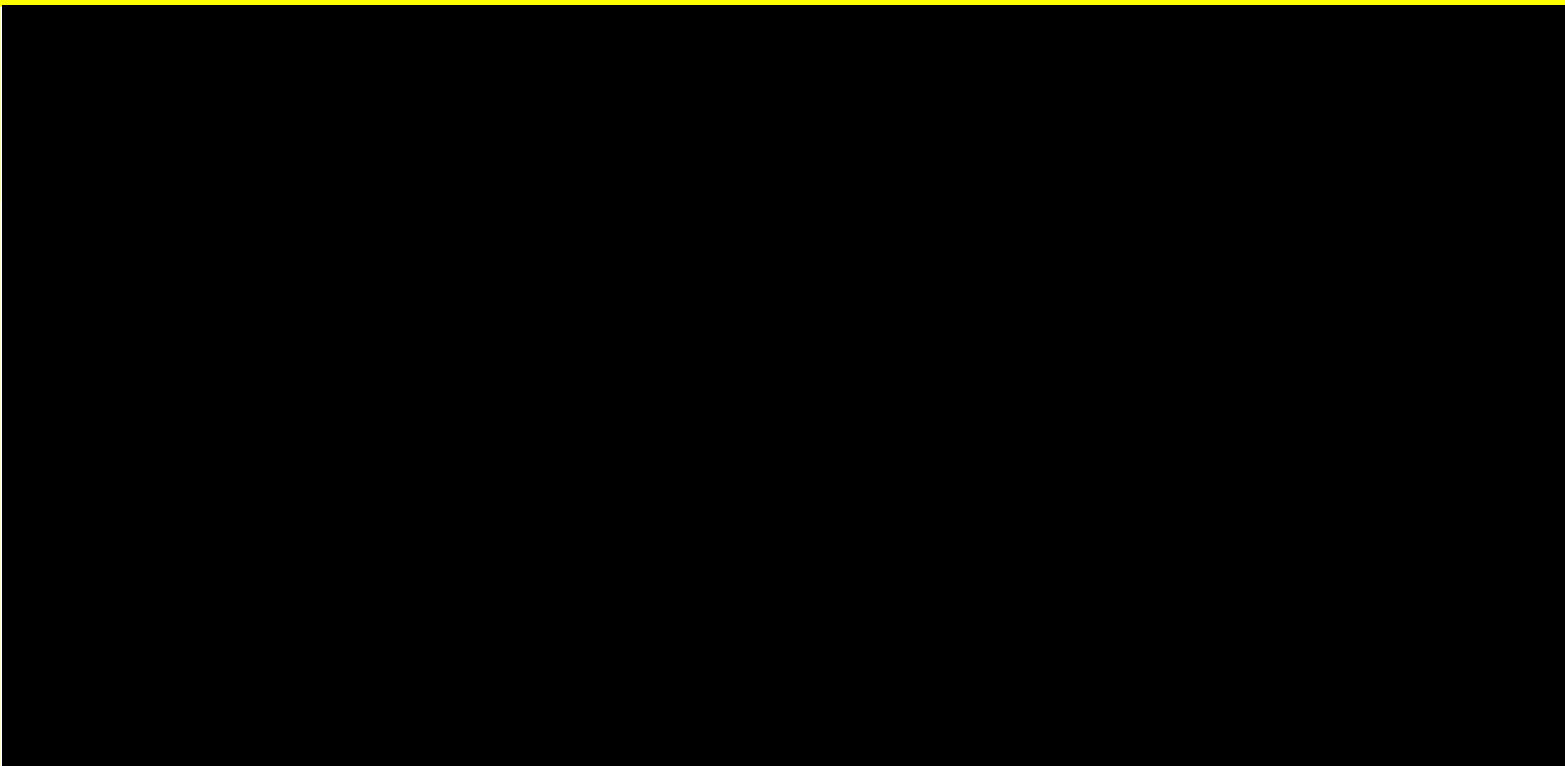
May 4, 2016 Questar Gas IRP Workshop

Agenda

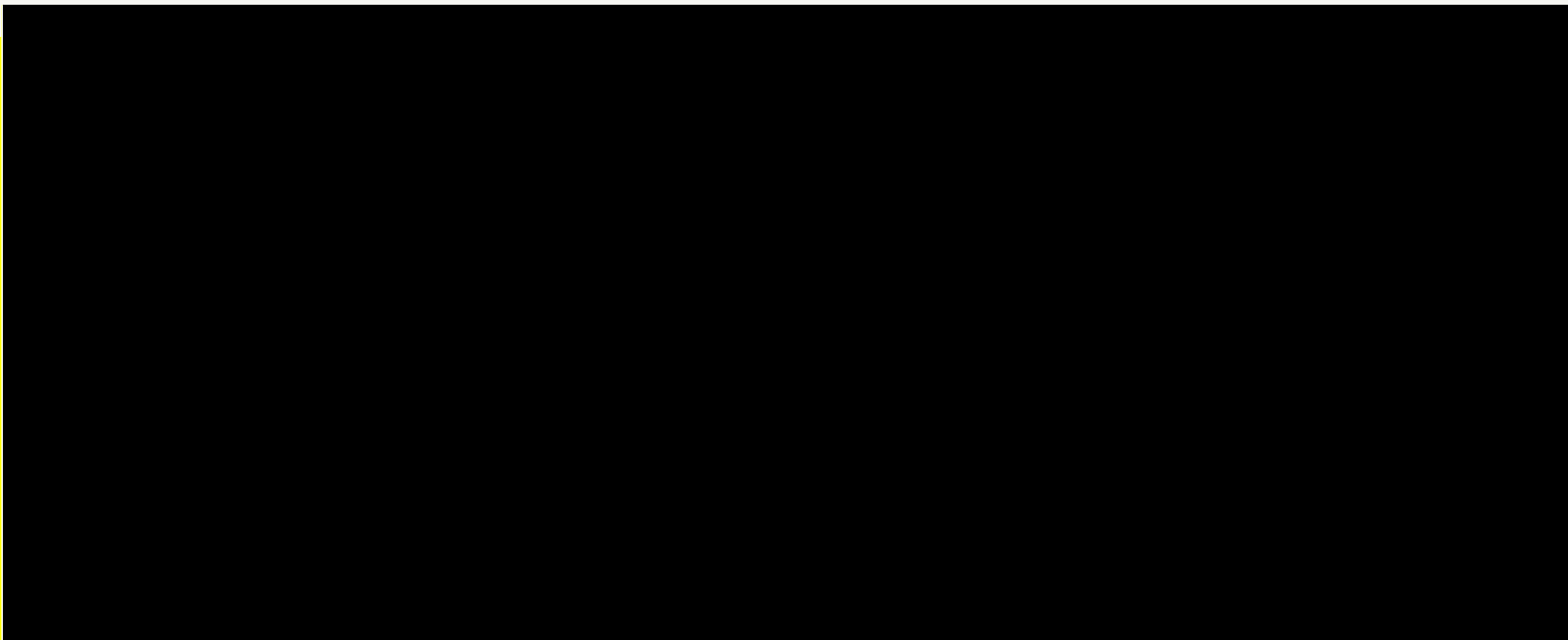
- Review of the 2016 RFP for purchased gas
- Update on peak-hour services RFP
- IHP pressure telemetry

2016 RFP for Purchased Gas

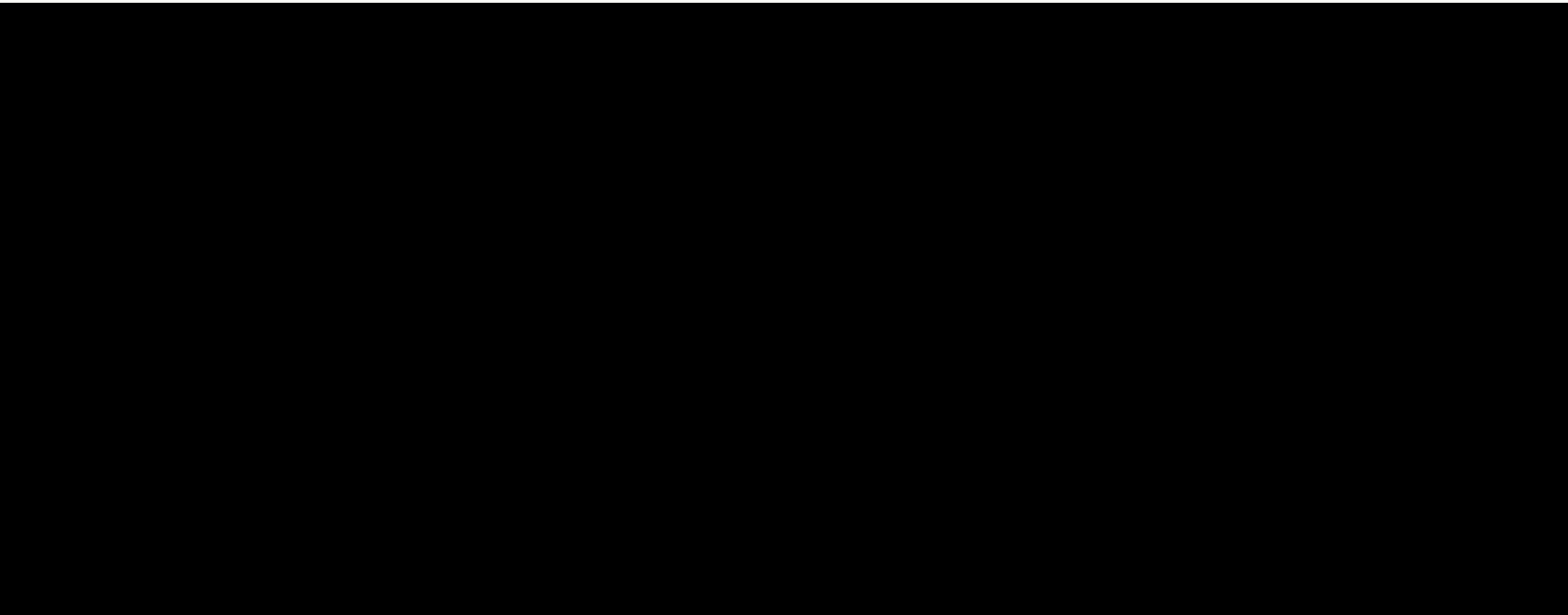
RFP Responses



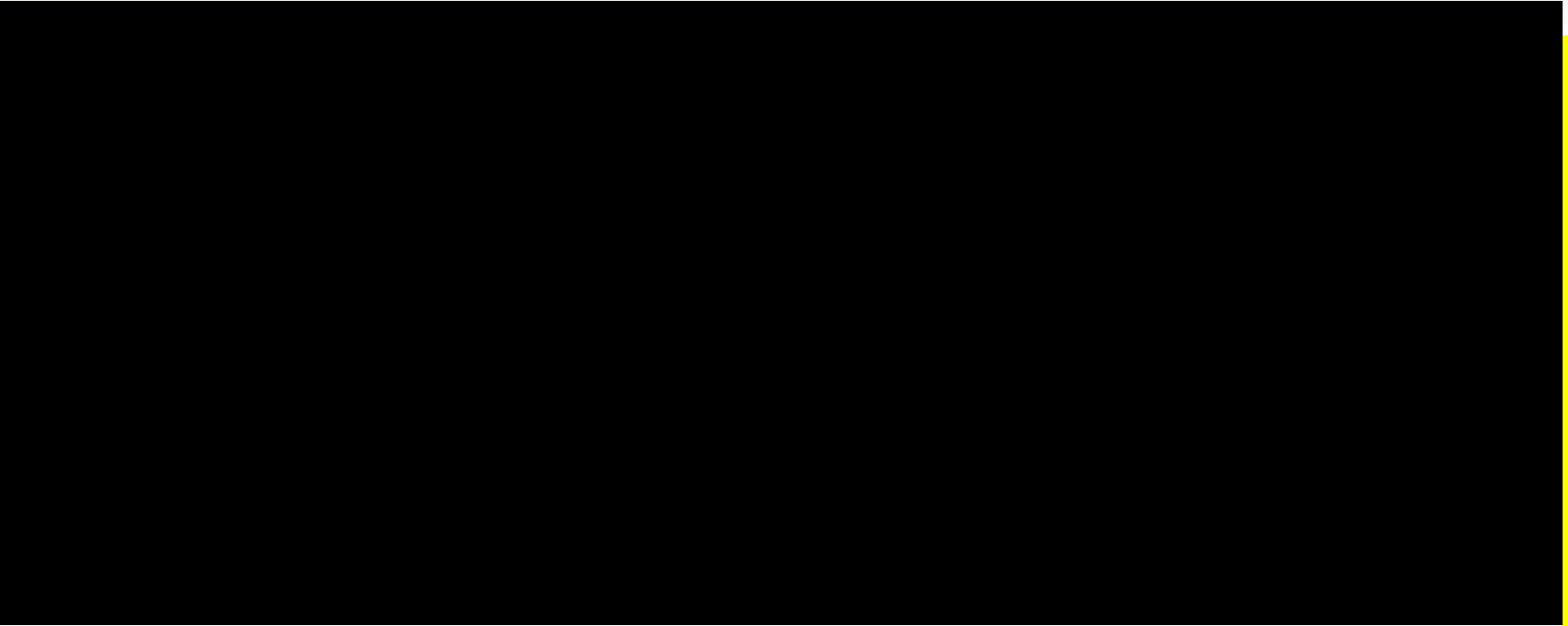
Baseload Supply (Dth)



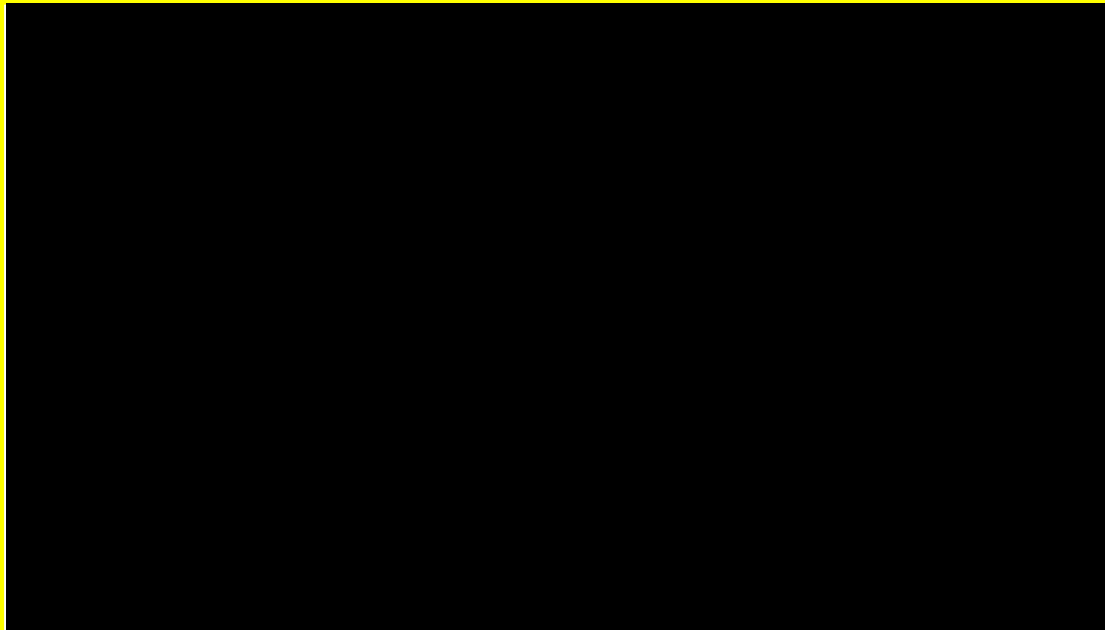
QPC Peaking Supply (Dth)



KRGT Peaking Supply (Dth)

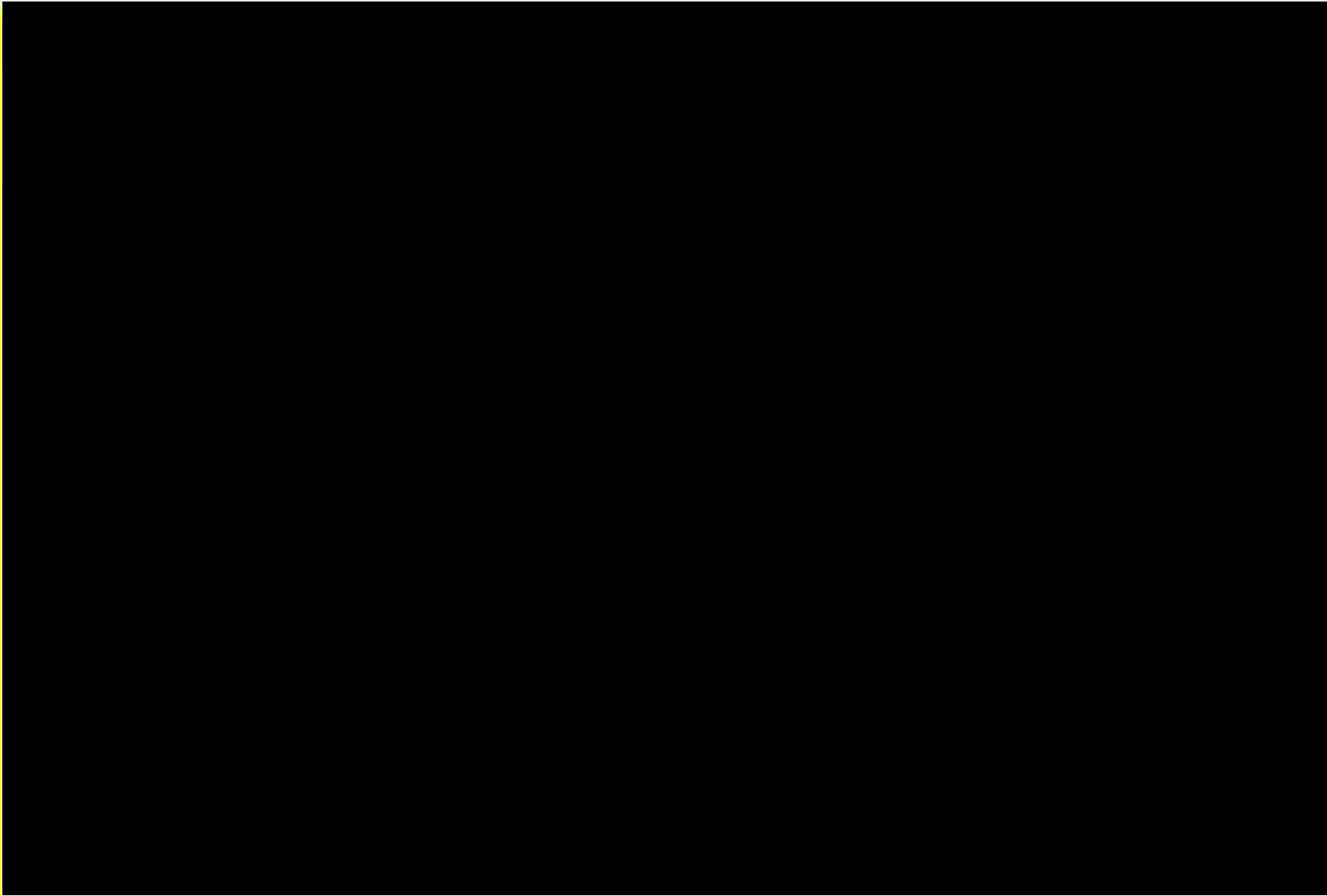


Total Supply Under Contract and Recommended 2016-2017 (Dth)

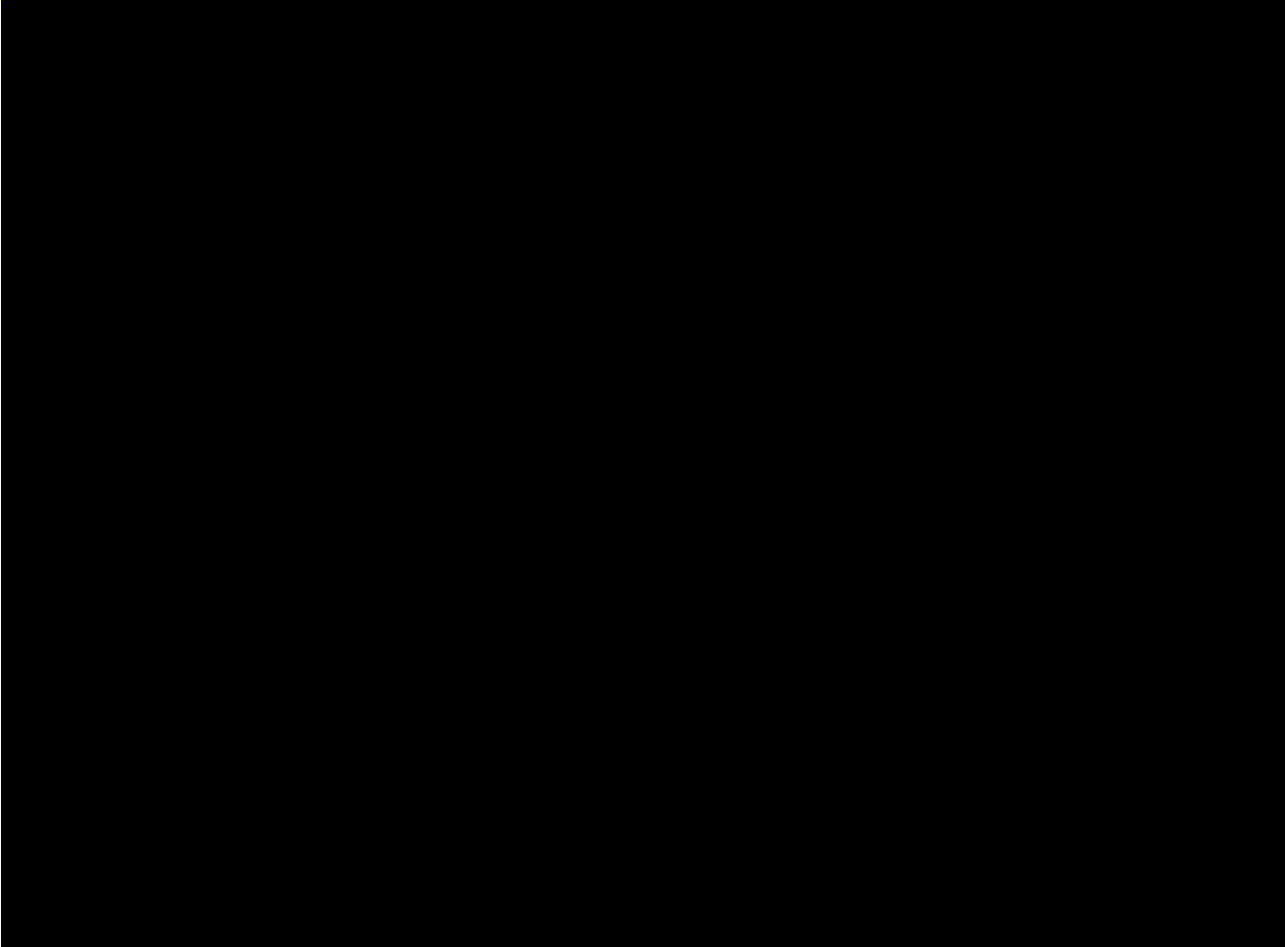


2016 Peak-Hour Services RFP

Responses



Magnum Gas Storage

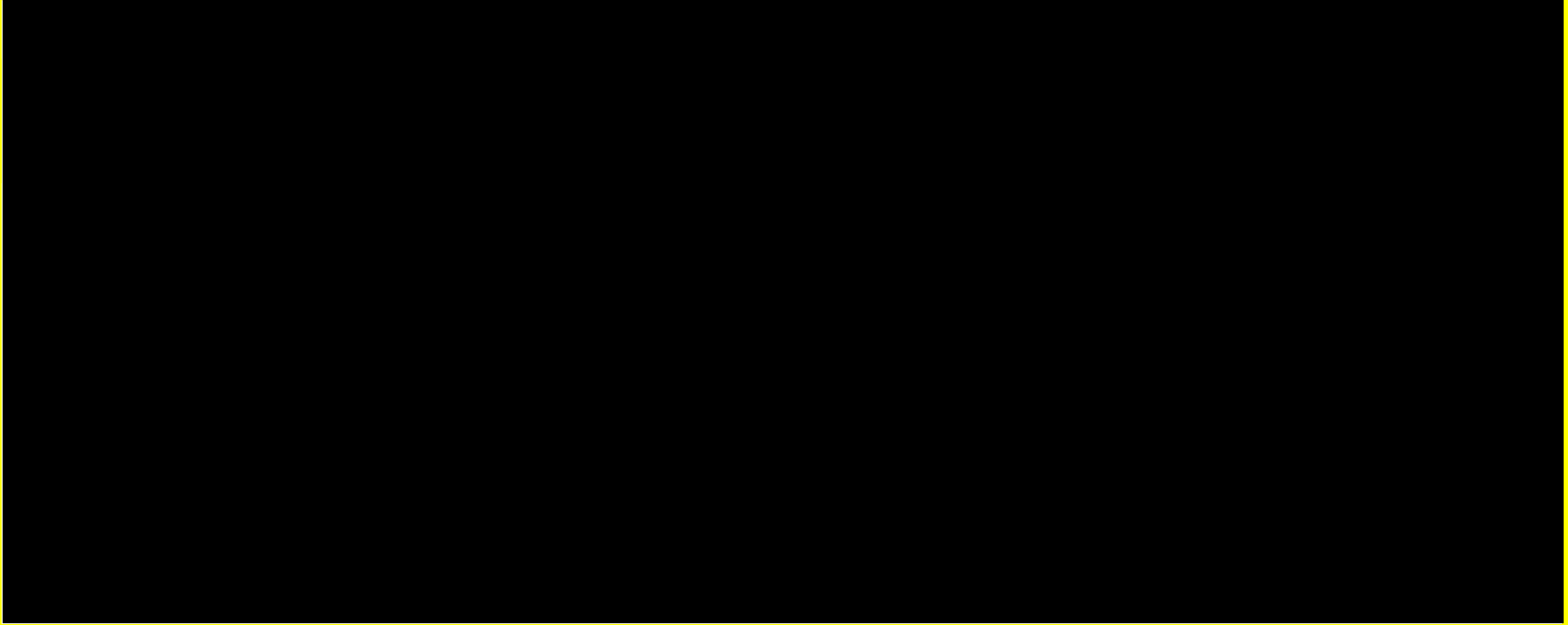


Kern River Gas Transmission

Questar Pipeline

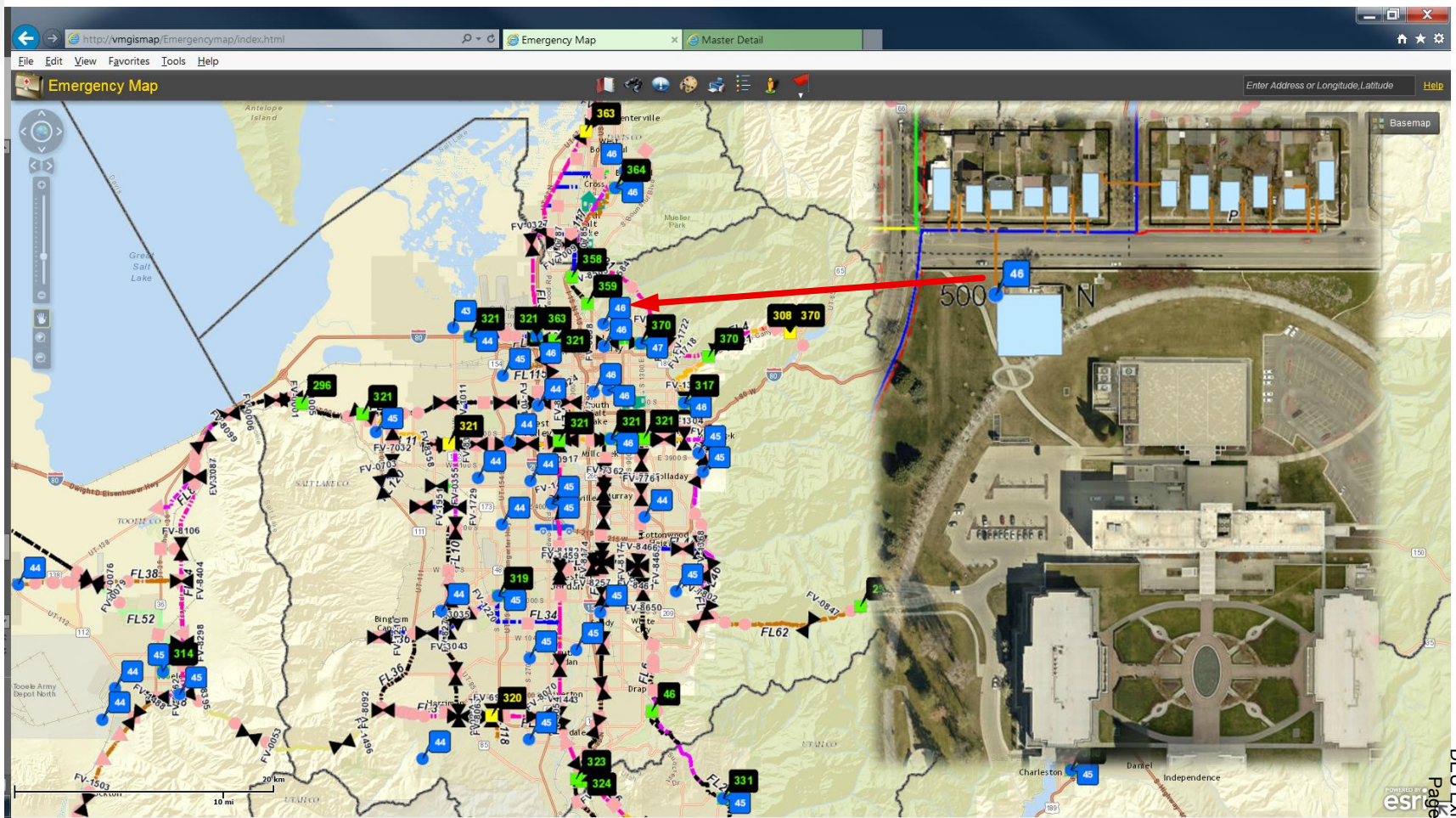
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Proposal Comparison



IHP Pressure Telemetry

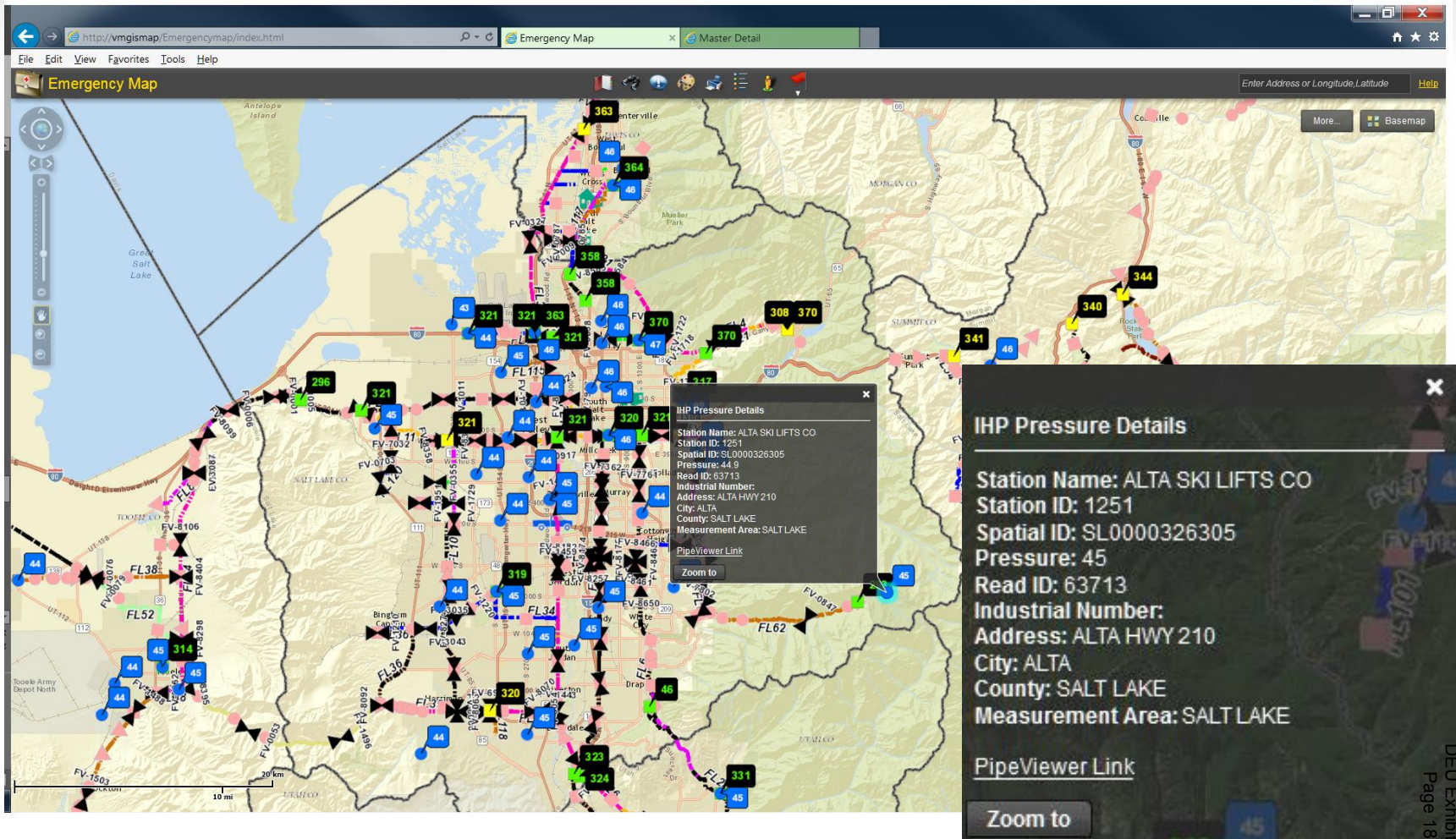
Pressure Telemetry Map



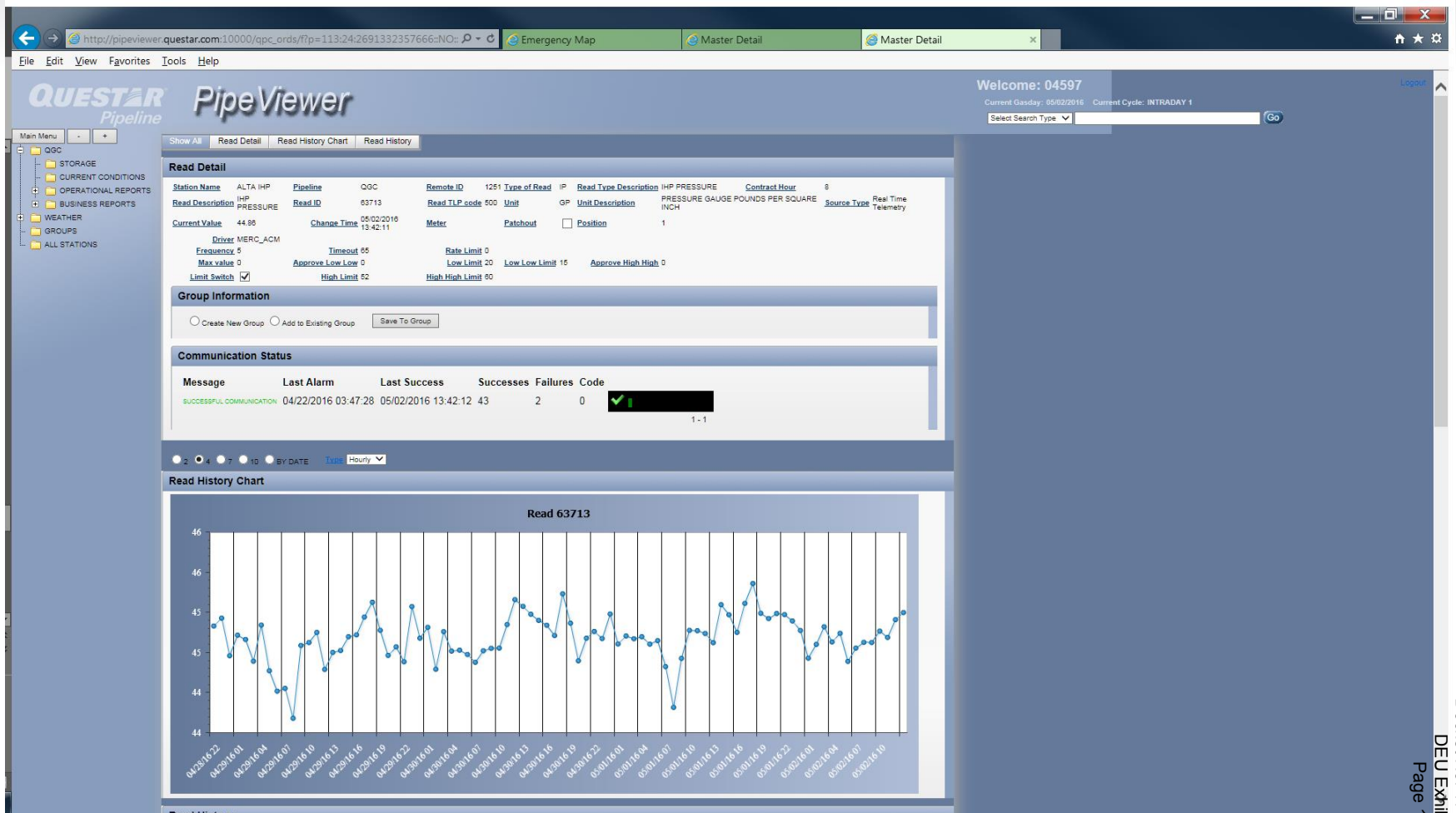
Monitoring Locations

- Representative Points
- Low Pressure Areas
- Remote Areas
- Regulator Stations
- Interruption Zones

Site Data & Link to PipeViewer



PipeViewer



Purpose

- Active System Monitoring
 - Dispatch receives pressure alarms

Location	MAOP	High-High	High	Low	Low-Low
Regulator Station	60 psig	60	52	30	25
System	60 psig	60	52	20	15
Regulator Station	35 psig	41	37	25	20
System	35 psig	41	37	20	15

- Company can respond proactively
- Minimizes customer interruption
- Minimizes response time

IHP Alarm Window

IHP Alarm Monitor
68 of 68
8:51:54 AM
Logged in to ALTA as: Aaron Astle
Log Out
☐ Light/Dark
☐ Full Screen
☒ Alarm Sound

High Priority Alarms

Info	Date/Time	Message	Oper Note	Accept

Acknowledged Alarms

☒ Auto Refresh

Info	Date/Time	Message	Oper Note	OperID
Info	10/1/2015 11:08 AM	TOOELE ARMY DEPOT SL IP IHP PRESSURE (0)-->(43.0) NORMAL	Normal reads not previously called out	03812
Info	9/29/2015 3:47 PM	MENDON IHP SL0009833 IP IHP PRESSURE (0)-->(45.0) NORMAL		disppc
Info	9/29/2015 2:07 PM	SOUTH SUMMIT HS SL00 IP IHP PRESSURE (0)-->(42.1) NORMAL	Talke to Chris Norske	01535
Info	9/28/2015 10:41 AM	WASHINGTON IHP SL000 IP IHP PRESSURE (42.0)-->(42.2) NORMAL	will talk with layne carter ... Clark	09195
Info	9/25/2015 3:23 PM	EL26 DR SV0002 IP IHP PRESSURE (74.955)-->(44.0) NORMAL		disppc

Location: SL0009857945, WASHINGTON IHP SL0009857945, 1080 W ARLINGTON ST, WASHINGTON [Stnid#1411]

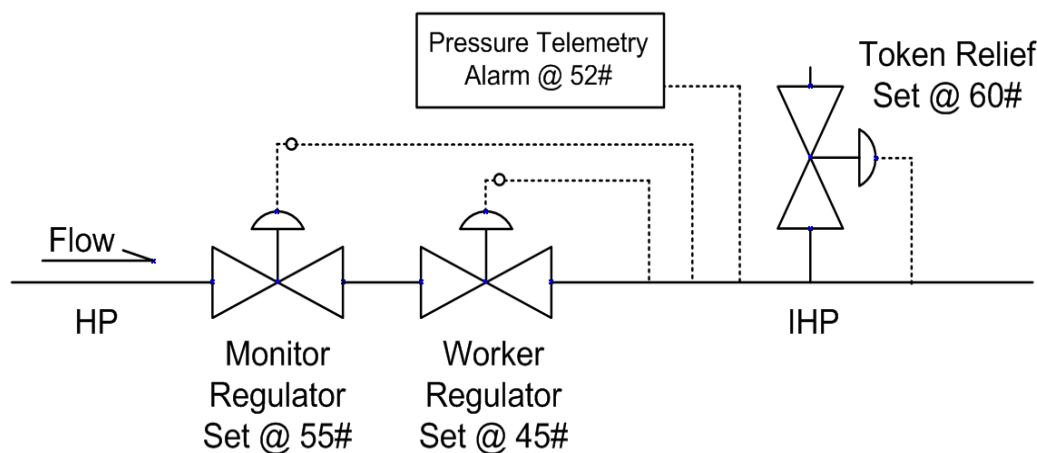
All Alarm Messages

☐ Auto Refresh

Date/Time	Message	Oper Note	OperID
9/8/2015 3:17 PM	EAGLE MOUNTAIN IHP E IP IHP PRESSURE (0)-->(44.3) NORMAL	Per Blake Dyches he just installed these 5 alarms today	06728
9/8/2015 1:10 PM	BRIGHAM CITY IHP SLO IP IHP PRESSURE (0.150)-->(43.6) NORMAL	Contacted David Platt - RHY	disppc
9/8/2015 12:55 PM	BRIGHAM CITY IHP SLO IP IHP PRESSURE (43.5)-->(0.150) LOW-LOW	Contacted David Platt - Rhy	disppc
9/8/2015 6:10 AM	WASHINGTON IHP SL000 IP IHP PRESSURE (0)-->(41.1) NORMAL		08879
9/8/2015 5:55 AM	WASHINGTON IHP SL000 IP IHP PRESSURE (41.4)-->(0) LOW-LOW	Spoke with Shawn Lindsay and he will have someone check it out. 5:56am - SHA	07769

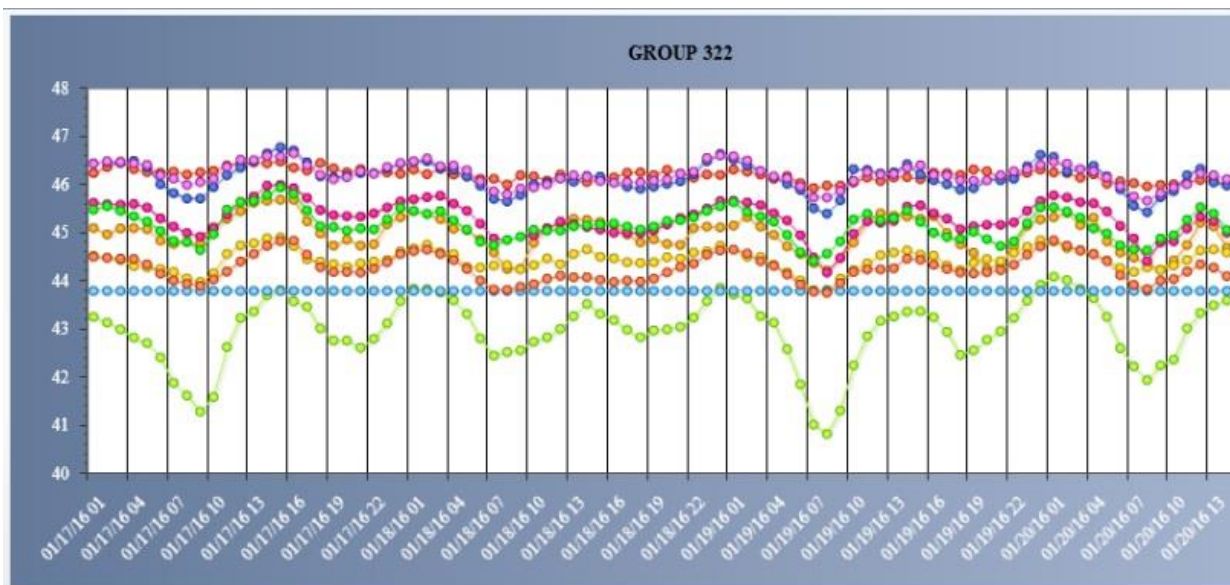
Purpose

- Active Station Monitoring
 - Alarms indicate stations that need attention, improving response time and eliminating the unnecessary release of gas.
 - Monitor both HP and IHP pressure at stations



Purpose

- Station Health Checks
 - Groups in PipeViewer allow Measurement and Control to quickly check station health



Equipment



Equipment



Questions?