intelligent control room management

achieving
49 CFR Part 192 and 195 compliance

imagination at work
industry leadership

- Global leader in HMI/SCADA software
- Technology leadership and experience to integrate disparate systems
- Innovating for the future at our Global Research Centers
- Serving Oil & Gas for more than a century, we know the challenges at every level
- Modular product suite provides building blocks for scalable and diversely configurable solutions

GE's Oil & Gas revenue: $7.7 Billion in 2009
pipeline safety
transportation of gas and hazardous liquid

Nearly 2 million miles of pipeline in the U.S. - through every state
Efficient 24/7 delivery
High costs for individual safety incidents
Industry and government focus on increasing safety

U.S. Pipeline Systems Safety Statistics - 5 years*
325 fatalities and injuries
More than $2 Billion in property damage

*Source: US Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA) Filtered Incident Files, 2005-2009
new DOT mandates

RIN 2137-AE28
Pipeline Safety: Control Room Management/Human Factors

49 CFR Part 192
Transportation of Natural Gas and Other Gas by Pipeline

49 CFR Part 195
Transportation of Hazardous Liquids by Pipeline

Issued by:
Department of Transportation
Pipeline and Hazardous Materials Safety Administration (PHMSA)
minimum safety standards

Goal
Reduce risk and improve safety during the transportation of hazardous gases and liquids

Procedural guidelines for:
- Access to information
- Alarm management
- Change management
- Fatigue mitigation
- Operating experience
- Training
- Compliance validation
- Compliance deviation
schedule

RIN 2137-AE28
Pipeline Safety: Control Room Management/Human Factors

Effective Date: February 1, 2010
49 CFR Part 192 (Amendment 112)
49 CFR Part 195 (Amendment 93)

Compliance Date: August 1, 2011
Control Room Management procedures developed

Implementation Date: February 1, 2012
Control Room Management procedures in use

imagination at work
GE expertise and technology

Helping you achieve pipeline safety compliance

Implementing good business practices
Capture events and trigger the necessary Standard Operating Procedures (SOPs) for action – whether related to alarm response management, operator duty cycles and fatigue mitigation or change management. Track and record actions and events for compliance archives.
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Solution Process

Gap Assessment  Plan  Design  Implement

August 1st, 2011 Deadline  February 1, 2012 Deadline
leveraging proven GE innovation
award-winning Proficy software platform

SCADA  MES  Historian  Workflow  3rd Party Apps

Proficy SOA

Modules  Services

iFIX & CIMPILCITY  Change Mgmt  Batch Execution  Plant Applications  Datamart  Maint. Gateway  Scheduler  Tracker  Historian  Portal  Troubleshooter  Workflow  Open Enterprise  Data/Equip. Models  Events

imagination at work
address all parts of 49 CFR Part 192 and 195
electronic Standard Operating Procedures (SOPs)

Speed response to events and alarms, including critical and uncommon
Capture and digitize best practices - including experience from aging staff
Minimize training time
Manage system changes - and leverage eSignature capabilities
Automatically generate reports
Compare staff performance
Track operator shifts and responses
Ease assurance of compliance
The Intelligent Control Room Management Solution partners our software team and procedure templates with your operations experts.

1. Learn
There is no shortage of expertise or data in your operations.
We'll teach you a process for creating best practice eSOPs and gaining buy in.

2. Develop
Most software projects fail because the development is too hard.
Proficy is easy to use. Define tasks - then digitize and reuse templates.

3. Deploy
Leverage a library of SOPs - and tailor for your operations.
Your team can build and maintain workflows.

Success!
Manage daily tasks to the emergency events with precision and repeatability.
Improve productivity, reduce overtime calls and drive compliance
example

S3 Development Corporation for South Jersey Gas
integrated system with Proficy Workflow and iFIX SCADA
Proficy Workflow troubleshoots
guide operator actions
real-time guided troubleshooting action initiated by SCADA

Events detected in real time
Best practice driven troubleshooting
Fully documented with audit trail
**initiate trouble ticket**
schedule trouble ticket
track work activities
close trouble ticket
capture work actions for all activities automatically
track and status alarm responses

Automatic capture of all work activities associated with any alarm

Ensure compliance with all SOPs