



Plan for Incorporating Lessons Learned from Operational Experiences

Summary This plan formalizes the review of Abnormal Incident Reports and determination of training development for Gas Control Room personnel.

Level of Use: Information Use

Target Audience The primary audience for this document includes the following gas control room personnel:

- The gas control manager (or delegate) and gas system supervisors responsible for managing and supervising gas control room personnel.
- Gas control senior transmission coordinators, transmission coordinators, and gas system operators responsible for monitoring and remote operations of gas transmission and distribution facilities.

This plan does not apply to control room personnel at manned stations who exclusively operate station equipment within station boundaries because they are not considered to be remotely monitoring and controlling a pipeline.

Safety Failure to follow this plan could result in unsafe pipeline operations and pose a risk to public safety and personnel in the event of equipment failure.

Before You Start Training and Qualifications:

All gas control personnel performing work under this procedure must complete the Operator Qualification Program tasks required for senior transmission coordinators, transmission coordinators, and gas system operators. The required tasks include the following:

- Start/Operate Turbine Motor Remote (Task Code 12-02).
 - Monitor System Conditions (Task Code 15-01)
 - GSO – Valve Operation Remote (Task Code 17-02).
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Procedure Steps

1 Lessons Learned

- 1.1 When the abnormal incident report is completed, the Senior TC may recommend that the Abnormal Operating Condition, or AOC, be considered for training purposes.
- 1.2 The Gas System Supervisor reviews the abnormal incident report, considering recommendations provided by the Senior TC, and determines if AOC will be used as a training opportunity for Gas Control room personnel. This list identifies some potential training opportunities including AOCs and AOCs which may occur simultaneously or in sequence:
 1. Pipeline pressure excursions, Dig-ins and ruptures
 2. Equipment failures, compressor ESDs, valve and regulator failures
 3. Critical SCADA failure and Major Communication Outages
 4. Gas Quality Upsets (e.g. High Odorant resulting in an increase in public gas leak calls)
 5. Gas Clearances deviations resulting in abnormal operating conditions
 6. Gas Control personnel contribution to AOCs
- 1.3 Alarm Logs will be used to support the development of training, outlined in section 1.2, lessons learned opportunities.

2 Training Development

2.1 Training Method

1. Gas System Supervisor will determine the method of training dependent upon the AOC. Some training methods are as follows:
 - a. Tailboards
 - b. Job Aids
 - c. Hypothetical Drills
 - d. Simulations
 - e. Web-Based Trainings
- 2.2 Training will be developed with PG&E Academy involvement.

3 Training Development and Implementation



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3.1 Gas System Supervisor will over see the training developed and implemented from AOCs identified as training opportunities.

4 Lessons Learned Documentation

4.1 All training developed from AOCs identified as training opportunities will be documented and included in the Gas Control Training Program (See TD-4436P-06, "Gas Control Training Program")

4.2 Completion of all training by Gas Control personnel will be documented and archived.

5 Recordkeeping

See TD-4436S, "Gas System Operations Control Room Management Standard," Section 10, "Recordkeeping," for recordkeeping instructions.



[ = CAUTION or  = WARNING]



END of Instructions



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Definitions	<p>Gas Incident: Any of the following events as defined in CFR 49 191.3</p> <ol style="list-style-type: none"> 1. An event that involves a release of natural gas from a pipeline or of liquefied natural gas or gas from an LNG facility and <ol style="list-style-type: none"> (i) A death, or personal injury necessitating in-patient hospitalization; or (ii) Estimated property damage, including cost of gas lost, of the operator or others, or both, of \$50,000 or more. 2. An event that results in an emergency shutdown of an LNG facility. 3. An event that is significant, in the judgment of the operator, even though it did not meet the criteria of paragraphs (1) or (2).
Implementation Responsibilities	<p>Manager of Gas Control</p> <ul style="list-style-type: none"> • Training and Simulations, Tailboards
Governing Document	<p>Utility Standard: GT&D Gas System Operations Control Room #:TD-4436S</p>
Compliance Requirement/Regulatory Commitment	<p>CFR 49 192.631, Control Room Management Rule</p>
Reference Documents	<p>Developmental References:</p> <p>Supplemental References:</p>
Appendices	<p>N/A</p>



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Attachments N/A

Document Recision New Document

Approved By Manager Gas Control

Document Owner Manager Gas Control

Document Contact Senior Operations Specialist

MOC Tracking and Revision Notes

Date	Rev #	Comments	Approved By
7/2/12	1	Added language regarding simultaneously occurring AOCs or in sequence, in section 1.2	<input type="text" value="Redacted"/>