



CONTROL ROOM MANAGEMENT REMAINING ITEMS OF CONCERN

49 CFR § 192.631

and

49 CFR § 195.446



49 CFR § 192.631 & 195.446

- a) General
- b) Roles and Responsibilities
- c) Provide Adequate Information
- d) Fatigue Mitigation
- e) Alarm Management
- f) Change Management**
- g) Operating Experience**
- h) Training**
- i) Compliance Validation**
- j) Compliance and Deviation**



CHANGE MANAGEMENT

Assure that changes that could affect control room operations are coordinated with the control room personnel by:

- (1) Implementing Sec 7 of API 1168 (195 only) Establishing communications between control room reps, operator's management, and field personnel when planning and implementing physical changes to pipeline equipment or configuration;
- (2) Requiring field personnel to contact control room when emergency conditions exist and when making field changes that affect control room operations; and
- (3) (192 only) Seeking control room or control room management participation in planning prior to implementation of significant pipeline hydraulic or configuration changes.



OPERATING EXPERIENCE

- (g) ... assure that lessons learned from operating experience are incorporated, as appropriate, into control room management procedures by performing each of the following:
 - (1) Review accidents that must be reported to determine if control room actions contributed to the event and, if so, correct, where necessary, deficiencies related to:
 - (i) Controller fatigue;
 - (ii) Field equipment;
 - (iii) The operation of any relief device;
 - (iv) Procedures;
 - (v) SCADA system configuration; and
 - (vi) SCADA system performance.
 - (2) Include lessons learned from the operator's experience in the training program required by this section.



TRAINING

Establish a controller training program and review the training program content to identify potential improvements at least once each calendar year, but at intervals not to exceed 15 months.

An operator's program must provide for training each controller to carry out the roles and responsibilities defined by the operator



TRAINING

The training program must include the following elements:

- (1) Responding to abnormal operating conditions likely to occur simultaneously or in sequence;
- (2) Use of a computerized simulator or non-computerized (tabletop) method for training controllers to recognize abnormal operating conditions;
- (3) Training controllers on their responsibilities for communication under the operator's emergency response procedures;
- (4) Training that will provide a controller a working knowledge of the pipeline system, especially during the development of abnormal operating conditions; and
- (5) For pipeline operating setups that are periodically, but infrequently used, providing an opportunity for controllers to review relevant procedures in advance of their application.



COMPLIANCE VALIDATION

Upon request, operators must submit their procedures to PHMSA or, in the case of an intrastate pipeline facility regulated by a State, to the appropriate State agency.



COMPLIANCE DEVIATION

An operator must maintain for review during inspection:

- (1) Records that demonstrate compliance with the requirements of this section; and
- (2) Documentation to demonstrate that any deviation from the procedures required by this section was necessary for the safe operation of a pipeline facility.