
PG&E Owner's Dam Safety Program (ODSP)



October 10, 2013

Dam Safety Program (DSP) Objectives

The objective of PG&E's Dam Safety Program is to facilitate long-term, safe, and reliable operation of the Company's dams by:

- Maintaining public and employee safety as well as compliance with FERC and DSOD (Safety First!)
- Communicating policies and expectations regarding dam safety and regulatory compliance to DSP team members, O&M, and other stakeholders
- Establishing protocols for reporting dam safety issues without fear of reprisal
- Defining the roles and responsibilities of key dam safety personnel, including the Chief Dam Safety Engineer (CDSE)

Dam Safety Program (DSP) Objectives (continued)

- Establishing and conducting effective dam safety surveillance (inspection) and monitoring programs
- Implementing best practices for quality control and quality assurance
- Facilitating knowledge transfer (training) and succession planning
- Monitoring and verifying compliance through internal and external audits and assessments
- Striving for continuous improvement

ODSP Components

- Design Review and Documentation
- Construction Support
- Analyses
- FERC Part 12D Reviews, Inspections, and Reports (PFMA, STID)
- Surveillance and Monitoring
- Operational Exercises
- Maintenance
- Mitigation Projects
- Emergency Action Plans (EAPs)
- Security
- Regulatory Compliance (FERC/DSOD)
- Standards and Procedures
- Training
- Communications
- Reporting
- Record Keeping
- Succession Planning
- Dam Safety Advisory Board
- Continuous Improvement
- Audits / Assessments

FERC Best Practices – The DSP is for *all* dams.

- The Owner's Dam Safety Program is a system wide program that applies to all dams (High, Significant and Low Potential Hazard dams)

FERC Best Practices – Reference Applicable Regulations

- PG&E's ODSP includes the following references
 - Links to on-line information @ FERC websites
 - Links to supporting PG&E standards and procedures
 - Definitions of key words / concepts

FERC Best Practices – ‘ No fear of reprisal’

- Safety is Job #1 at PG&E and it has always been our policy that anyone has the ability / right to bring up safety issues without fear of repercussions.
- PG&E reporting responsibilities are contained in PG-S020 – Reporting Hydroelectric Facility Incidents that Require Notification to Government Agencies.
- CDSE has direct access to PG&E’s President.

FERC Best Practices – Dam Safety Priority

- First paragraph of the executive summary states: “Power production and other business objectives cannot take precedence over dam safety or regulatory compliance issues.”

FERC Best Practices – Record Keeping

- Newly created asset records are retained as electronic files and are being migrated to Corporate record management systems, including Documentum, SAP Work Management (WM), Geographic Information System (GIS), and Supervisory Control and Data Acquisition (SCADA)
- Regulatory correspondence and compliance records are retained in SAP WM and Documentum
- Old records in hard copy formats will be maintained in the San Francisco General Office Power Generation Engineering and Licensing files, and to be migrated to the electronic file locations indicated above

FERC Best Practices - Training

- Developed on-line training modules for all employees working on the program to learn about industry standards and best practices
- Company provides a tracking program to ensure the proper training is completed and recorded
- Senior engineers mentor younger engineers

FERC Best Practices – Audits and Continuous Improvement

- PG&E'S ODSP includes the formation of the 'Dam Safety Advisory Board' (DSAB).
 - Current membership represents experienced professionals from practicing engineering consultants; technical experts and academia; and regulatory / compliance.
 - Convened bi-annually to advise CDSE & PG&E on emerging issues in the area of dam safety.

FERC Best Practices – Dam Safety Program Organizational Chart

