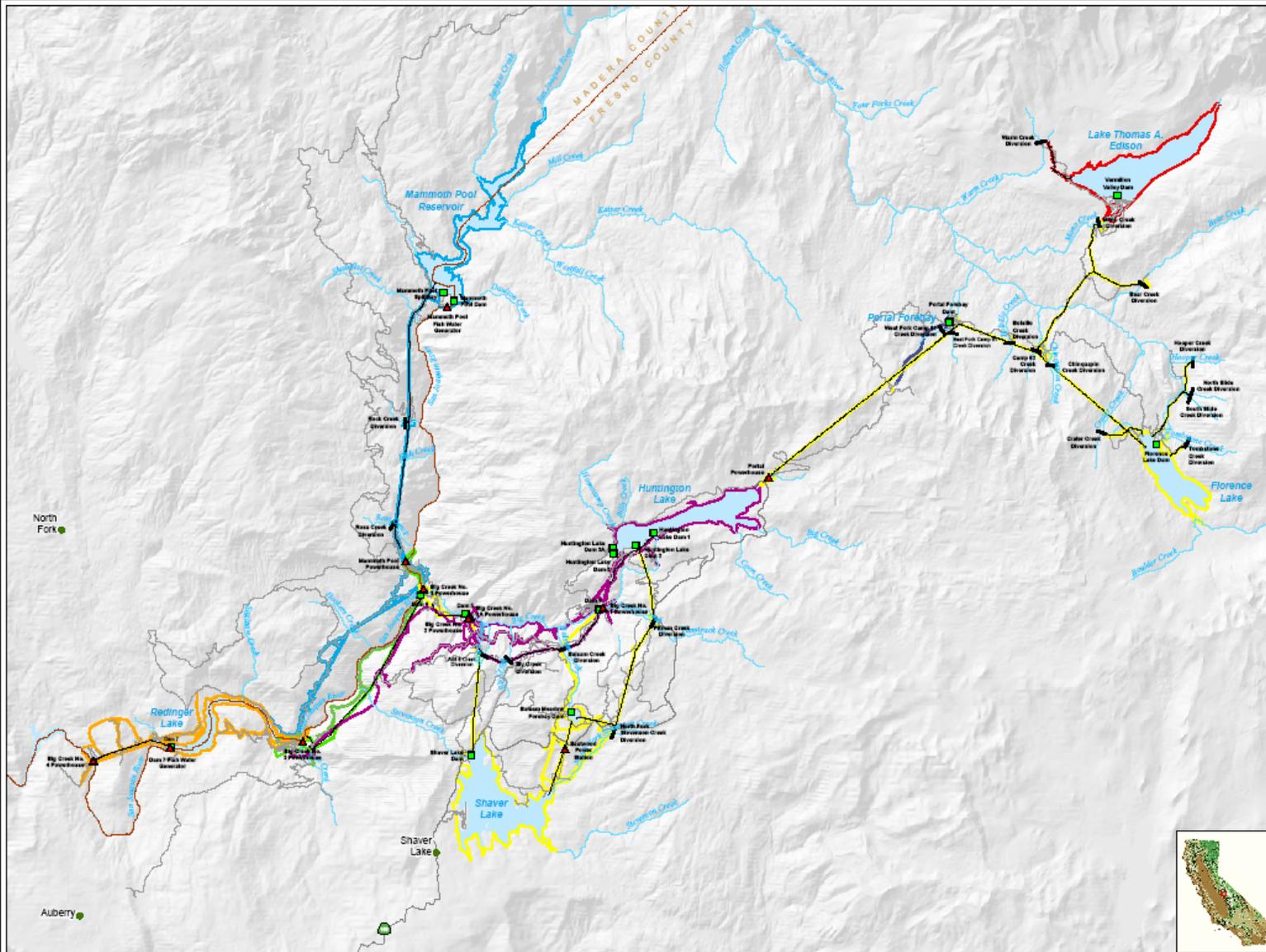


Roles and Responsibilities for Hydro Divisions & Dam Safety Engineering

December 2008

A stylized, low-poly mountain range graphic in shades of teal and blue, positioned at the bottom right of the slide.

Big Creek Projects



- SCE Big Creek Projects**
- Big Creek Nos. 1 and 2 Project
FERC Project No. 2175
 - Big Creek Nos. 2A, 8 and Eastwood Project
FERC Project No. 67
 - Big Creek No. 3 Project
FERC Project No. 120
 - Big Creek No. 4 Project
FERC Project No. 2017
 - Mammoth Pool Project
FERC Project No. 2085
 - Portal Project
FERC Project No. 2174
 - Vermilion Valley Project
FERC Project No. 2066
 - City, Town
 - County Boundary
 - Water Conveyance
 - ▲ Powerhouse
 - Dam
 - Diversion
 - Roads

Note: The Big Creek No. 4 Project received a FERC License on Dec. 4, 2020. The Vermilion Valley Project and Portal Project operate under annual licenses.



With Assistance From:



Big Creek Hydroelectric System
Alternative Licensing Process

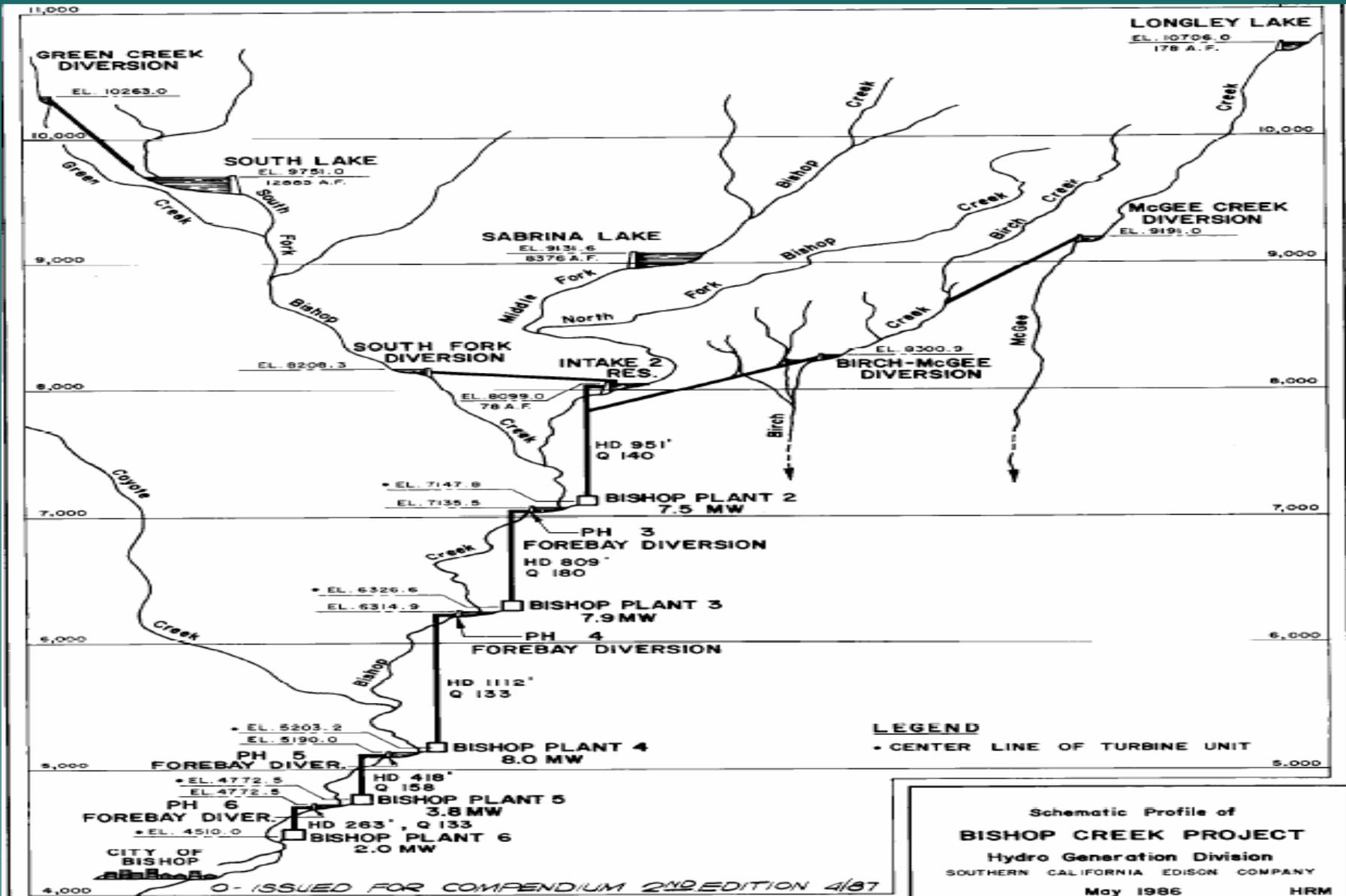
**Southern California Edison
Hydroelectric System**





Projection: UTM Zone 11
Datum: NAD 83

Bishop Creek Project

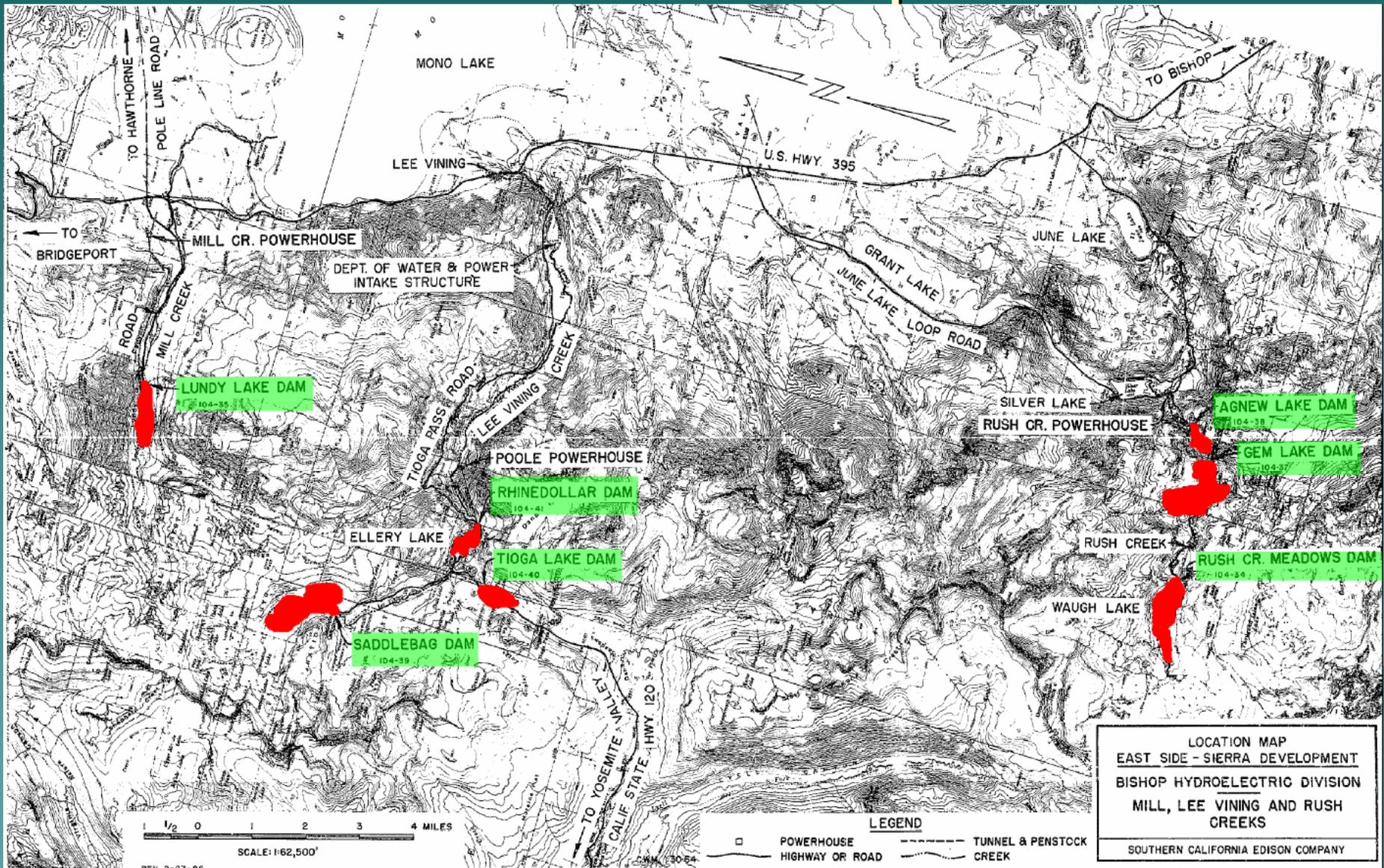


Schematic Profile of
BISHOP CREEK PROJECT
 Hydro Generation Division
 SOUTHERN CALIFORNIA EDISON COMPANY

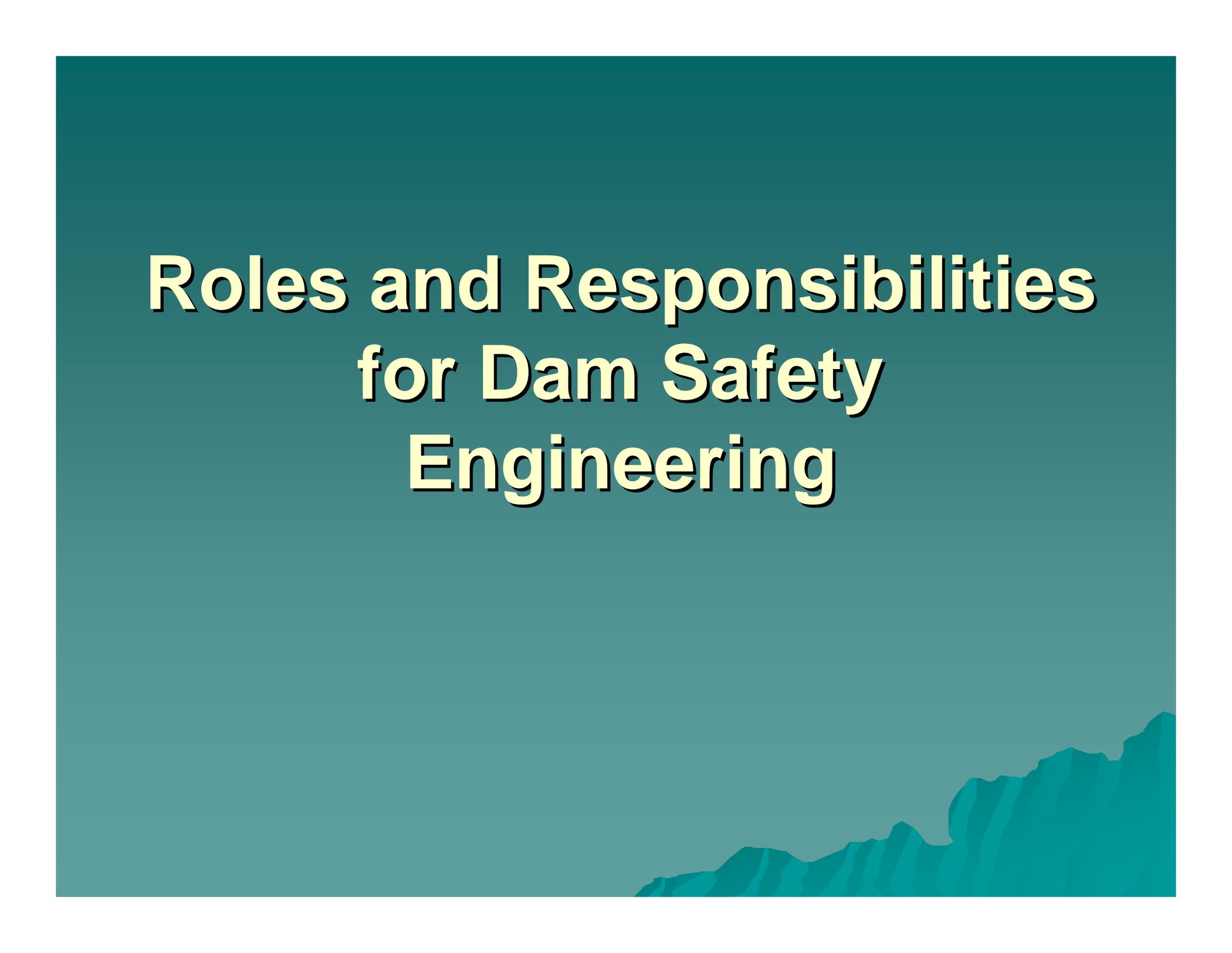
May 1986

HRM

Mill, Lee Vining & Rush Creek Location Map



Roles and Responsibilities for Dam Safety Engineering



Roles & Responsibilities for Dam Safety Engineering – E&TS

- Interpret federal and state regulations, guidelines, directives, and requests
- Development of long-term strategic planning, technical engineering evaluations, studies
- Development of major dam safety projects

Roles & Responsibilities for Dam Safety Engineering – E&TS

- Conducting QA/QC compliance roles for the FERC and DSOD requirements
- Interfacing with the FERC and DSOD on technical issues related to dam safety
- Managing the Part 12 Independent Consultants

Roles & Responsibilities for Dam Safety Engineering – E&TS

- Examples of the related FERC/CFR programs include:
 - Dam Seismicity Program
 - Probable Maximum Flood
 - Surveillance and Monitoring SMP/SMR
 - Part 12 Inspections and Reports
 - PFMA and follow-up actions

Roles & Responsibilities for Dam Safety Engineering – E&TS

- Funding technical studies and projects, which may include:
 - Spillway Assessments
 - Seismic Program
 - Risk Assessment of Dams

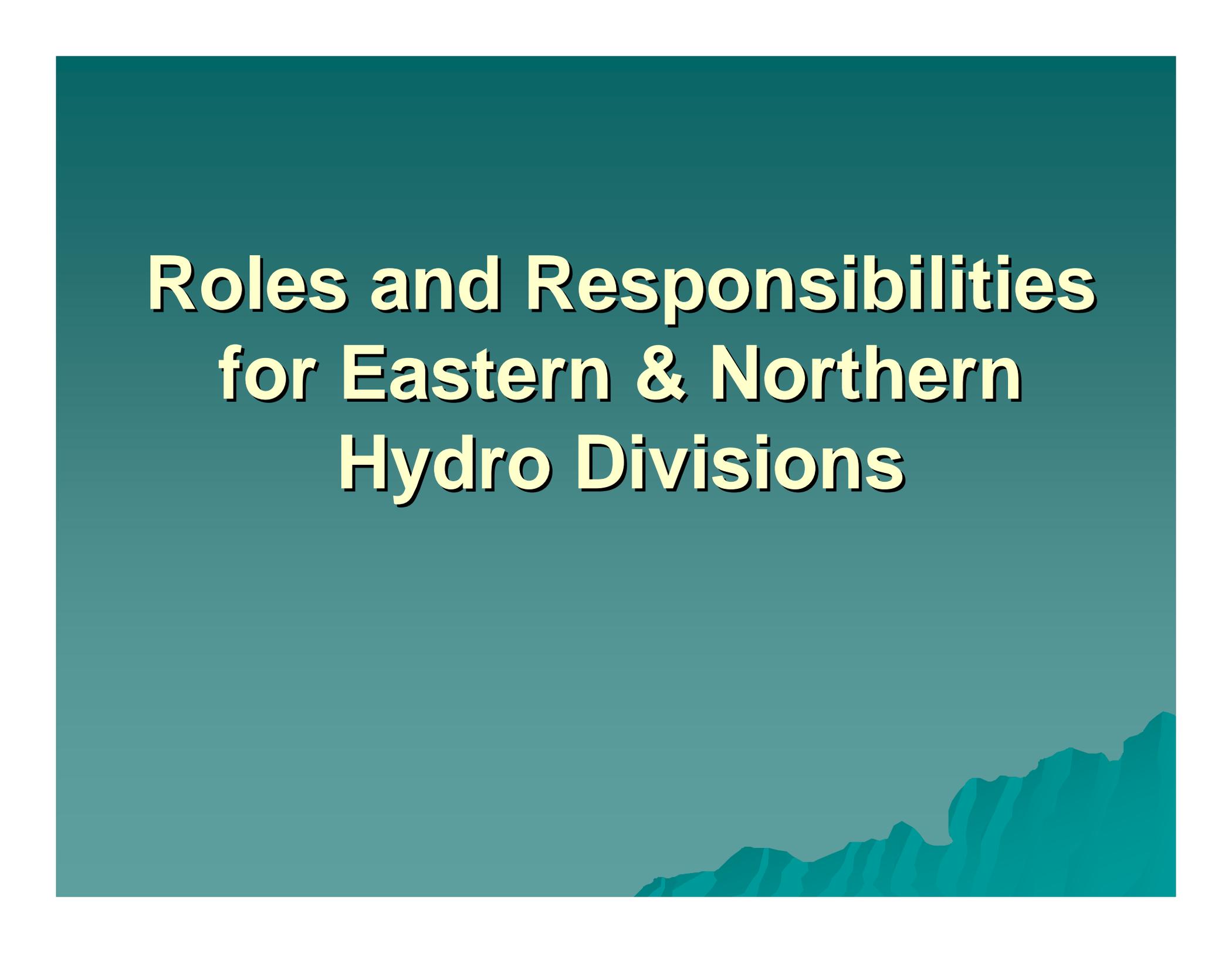
Roles & Responsibilities for Dam Safety Engineering – E&TS

- Developing priority of dam retrofits based on Risk Management methodology
 - EAP Improvement Program
 - Dam Safety Data Base Program
 - Create and maintain on-going 5-year plan for major dam projects
- 

Roles & Responsibilities for Dam Safety Engineering – E&TS

- Technical expertise for meeting changing engineering assessments of dams, and extension of dam life.

Roles and Responsibilities for Eastern & Northern Hydro Divisions

The background is a solid teal color. At the bottom right, there is a stylized silhouette of a mountain range in a darker shade of teal.

Roles & Responsibilities for Eastern & Northern Hydro Divisions

- Dam “owner” with primary responsibility for safe operation and maintenance of all Hydro Division facilities, including activities related to dams, such as, communication with the FERC and DSOD for:
 - Coordination of Operational Inspection

Roles & Responsibilities for Eastern & Northern Hydro Divisions

- Inspection response letters
 - Data requests
 - Filings, etc.
- 

Roles & Responsibilities for Eastern & Northern Hydro Divisions

- Dam 'owner' with primary responsibility for safe operation and maintenance of dams, including:
 - Fund routine operation of dams
 - Fund routine maintenance of dams

Roles & Responsibilities for Eastern & Northern Hydro Divisions

- Fund retrofits for improvement for safety of dams, as recommended by Dam Safety Engineering and committed to the FERC and/or DSOD
- GRC request for major dam projects from 5-year plan

Roles & Responsibilities for Eastern & Northern Hydro Divisions

- Dam 'owner' with primary responsibility to obtain and maintain local, state and federal permits associated with dams.



Edison crew repairing loose concrete at intake



Arch #8 Fish Release Intake NDE inspection



Geomembrane installation at Gem Dam
Carpi is completing Archway #6



Drum Gate Chamber Concrete Grouting work at Florence Dam



Drum Gate Chamber Concrete Grouting work at Florence Dam



Florence Dam