



LOWER KLAMATH PROJECT
Siskiyou County Board of Supervisors
Special Meeting Klamath Dam Removal
March 28, 2023

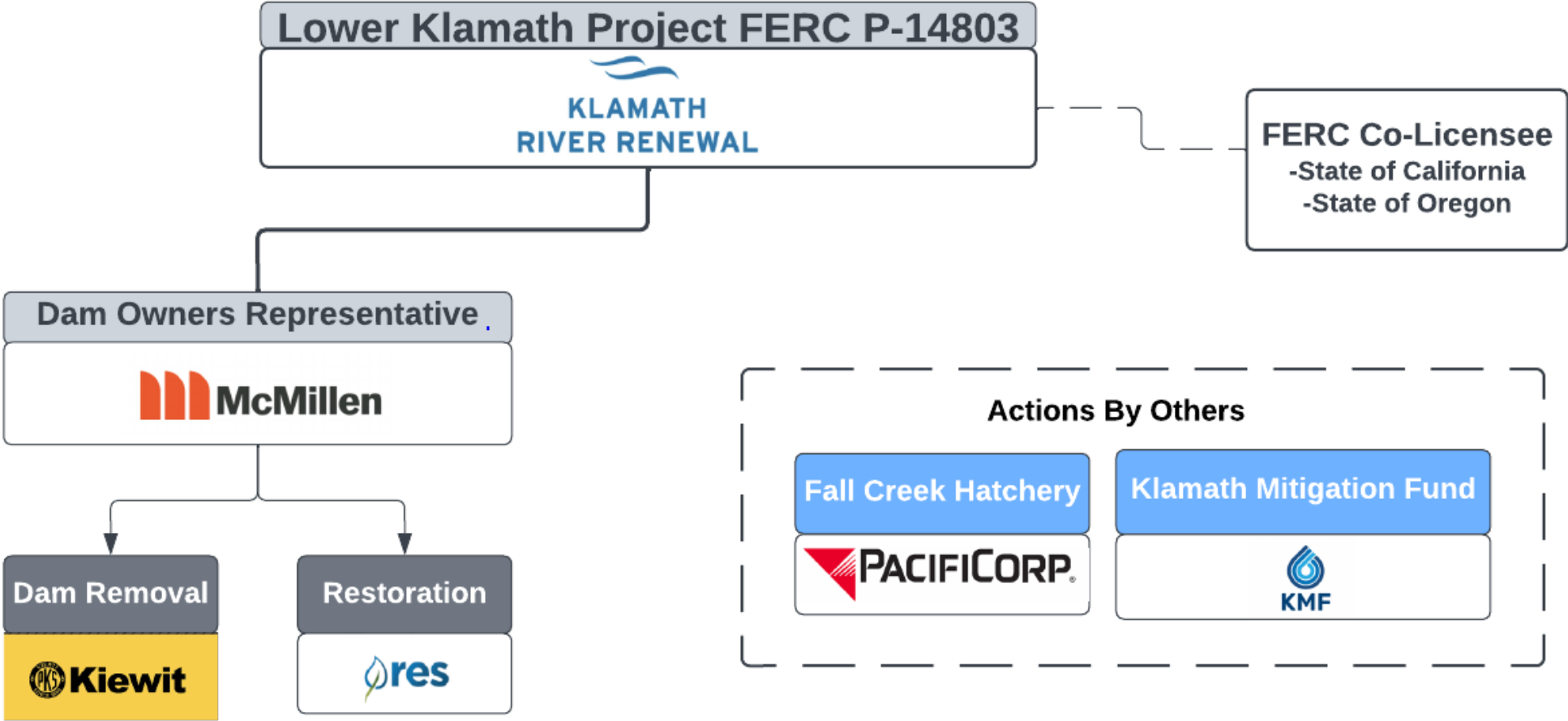
Introductions

- **Klamath River Renewal Corporation**
 - McMillen Corporation
 - Camas, LLC

Meeting Objective

- **Provide Lower Klamath Dam Removal Project Overview**
- **Provide Lower Klamath Dam Removal Regulatory Overview**
- **Q/A**

Lower Klamath Project Decommissioning

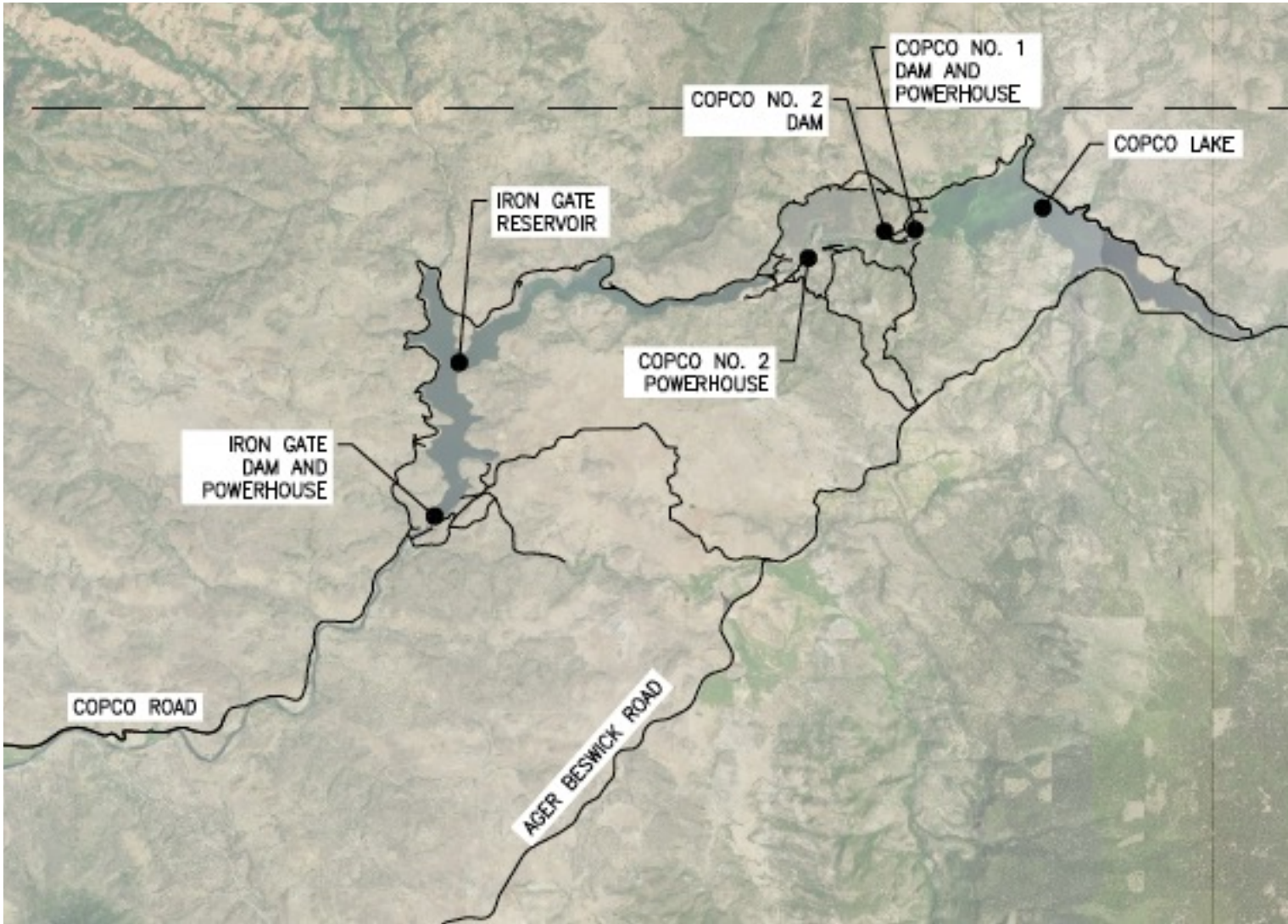


Key Project Elements

- **FERC is the Regulatory Agency with oversight authority**
- **State of CA and OR are FERC Co-licensees with the Renewal Corporation**
- **PacifiCorp no longer owns the hydro project or lands.**
- **PacifiCorp is under contract to Renewal Corporation for existing dam operations until early 2024.**
- **JC Boyle, Copco No 1, and Iron Gate drawdown and removal begins Jan 1, 2024 and will occur at the same time.**
- **PacifiCorp and CDFW will support the operations of Fall Creek Hatchery**
- **Lands will be transferred to CA and OR at end of project for management.**

Lower Klamath Dam Project Overview

Lower Klamath Project California Dams



Dam Removal Timeline

Prep Construction

- Roads/Bridges
- CoY Waterline
- Dam Modifications
- Construction Camps
- Copco No. 2 Removal

2023

Drawdown/Dam Facility Removal

- Drawdown
- Dam & Facility Removal
- Initial Restoration

2024

Restoration

- Reservoir Restoration
- Stream Reconnections
- Adaptive Management

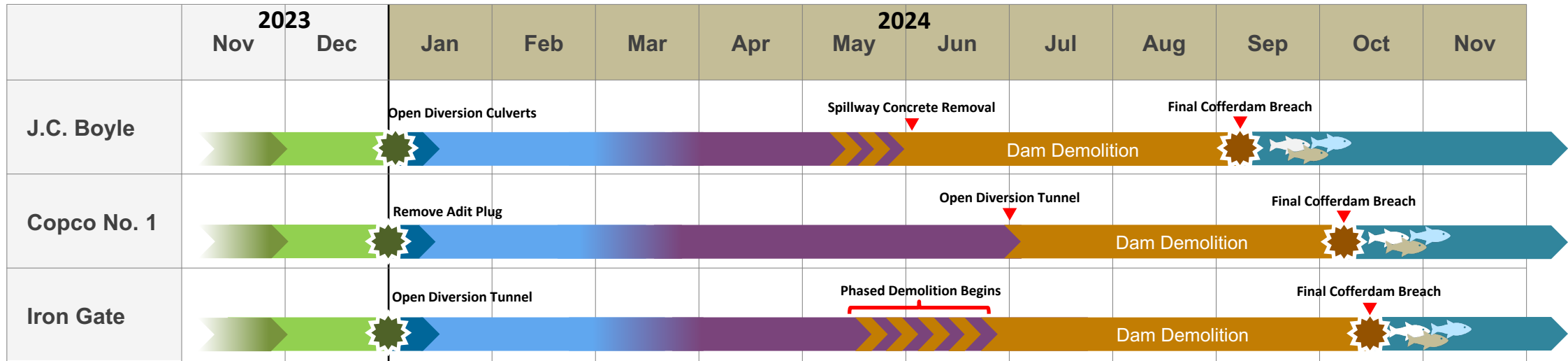
2025~2030

FERC Final Surrender Order

- CA/OR Land Transfer

~2030

Stages of Controlled Reservoir Drawdown



1. Operational Drawdown:

Minimum operating level

2. Initial Drawdown:

Reservoir water initial controlled release.

3. Reservoir Refilling and Releasing Period:

Inflows may exceed outflow capacity periodically, causing reservoir levels to rise and fall

4. Dam Demolition:

Reservoir inflow water=min fluctuations

5. Klamath River Reconnection:

Breaching of the historic cofferdam, Klamath River to permanently flow in original channel

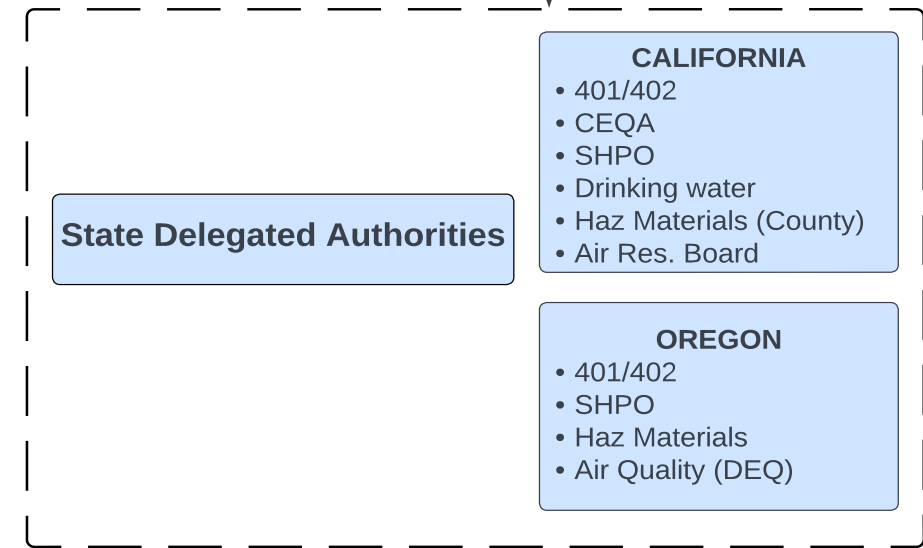
Regulatory Overview

Permits and Approvals

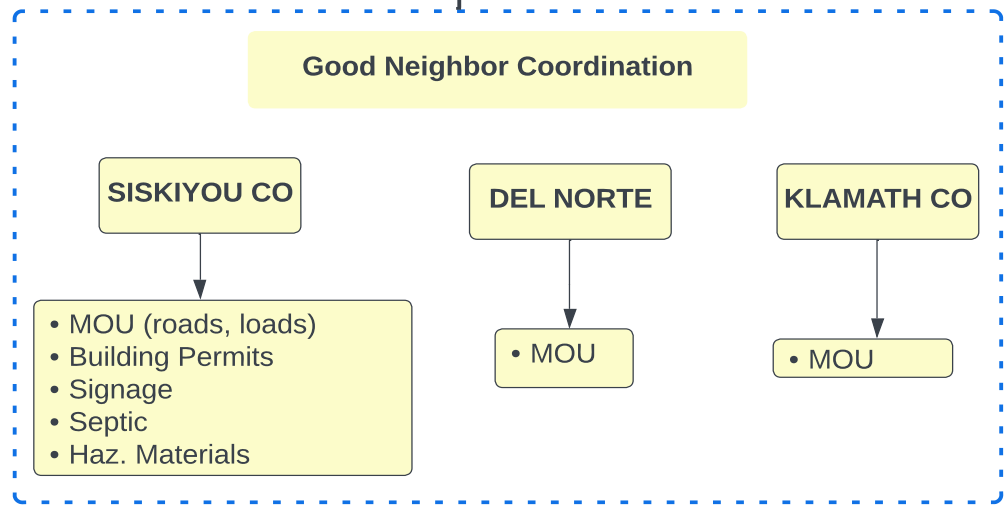
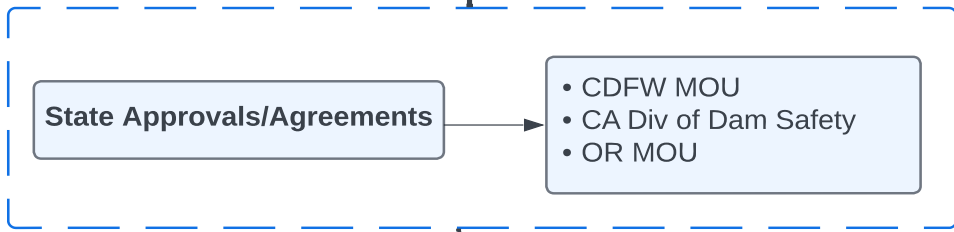
- **Federal, State and Local Approvals (>50)**
 - ✓ **NEPA, ESA, NHPA**
 - ✓ **Water Quality**
 - ✓ 401 Certifications
 - ✓ 402 NPDES, SWPPP (storm water)
 - ✓ 404 Wetlands (Removal Fill)
 - ✓ **Air Quality**
 - ✓ **Hazardous Materials Management**
 - ✓ **FEMA Flood**
 - ✓ **MOUs (County and State legal agreements)**

FEDERAL ENERGY REGULATORY COMMISSION LKP Surrender Order Conditions

- FEDERAL APPROVALS**
- NEPA-Env Impact Statement
 - NMFS/USFWS: Endangered Species Act
 - US Army Corps: (404) Removal/Fill Wetlands
 - Cultural Resources, Nat. Preservation Act, S106 (State Delegated)
 - EPA
 - 401 Clean Water (State Delegated),
 - 402 Pollution Discharge (SWPPP) (State Delegated)
 - Clean Air Act (State Delegated)
 - Drinking water (State Delegated)
 - Haz. Materials/Waste-Title 40 Ch 260-270 (State Delegated)
 - FEMA Flood



KLAMATH RENEWAL CORPORATION



* Slide represents major regulatory/permits but is not comprehensive of all approvals..



Compliance

- **Dedicated Compliance Team for oversight**
- **Field Environmental Compliance Managers**
- **Field Monitors**
- **Tribal Monitors**

Public Safety and Protection

- **FERC Required Dam and Public Safety Program**
- **Emergency Action Plans and Coordination**
- **Public Safety Programs with local/state/federal law enforcement**
- **Controlled dam flow releases (not Condit)**
- **Multi-agency engineering oversight**
- **Sediment load is less than annual sediment input to the Klamath River**

Questions and Answers

Extra Slides

Dam Removal Timeline

	2022	2023 Pre- Drawdown	2024 Drawdown/ Removal	2025	2026	2027	2028	2029	2030
Regulatory Approval Acquisition	PERMITS								
Pre-Drawdown Year Activities		PREP CONST							
Drawdown Year Activities			DAM REMOVAL						
Post-Drawdown Activities				RESTORATION					
Final License Surrender Order									

Pre-Drawdown Year:

- Dam/tunnel modifications
- Road/Bridge improvements
- CoY Waterline Replacement
- Fall Crk Hatchery Construction
- Water Quality/Quantity Monitoring
- Copco No. 2 Dam Removal

Drawdown Year:

- Dam and infrastructure removal
- Initial reservoir restoration

Post-Drawdown Years:

- Site Restoration
- Monitoring/Adaptive Management