



County of Siskiyou Staff Report

Lower Klamath Hydroelectric Decommissioning Project

August 2023

The purpose of this staff report is to inform the Board of Supervisors and the public of the Lower Klamath Hydroelectric Decommissioning Project's (Project) progress every month. The report also includes an update on the County Staff's involvement in the Project, as well as an outline of upcoming activities. While not all areas of interest or concern may be addressed in this report, any questions, comments, or concerns can be directed to the County's email address for the project: lkdinfo@co.siskiyou.ca.us.

Project Progress

As a reminder, the Federal Energy Regulatory Commission (FERC) has encouraged KRRC and their contractors to endeavor to comply with local ordinances and permits, although this was not a requirement through the FERC Order. To the extent that local laws or permitting requirements make compliance with FERC's Order impossible or unduly difficult, FERC concluded that such local requirements are preempted. County Staff have been working closely with KRRC and their contractors to urge permit application submittals and good neighbor policies, particularly for those permits that are related to public safety (such as transportation and encroachment permits). For those activities that may be exempt through the FERC Order, County Staff has asked for a written factual/legal justification for why County permits are preempted.

Below is an outline of the major Project activities that occurred in August 2023. Photos of recent Project Activities are included in Appendix A.

- Cultural and biological site surveys continuing within the Project Area.
- Flow management coordination for pre-drawdown period is ongoing.
- Maintain temporary best management practices throughout the Project Area.
- Continued ground water well monitoring.
- FERC Dam safety preparedness actions are on-going.
- Revision of City of Yreka Waterline Workplans
- Completed the following construction activities at Copco 1:
 - Low level adit construction – blasting work completed.
 - Completed the low-level access road and work pad.
 - Low-level Adit Construction – three blasts completed in August
- Completed the following construction activities at Copco 2:
 - Dam removed to the foundation. The remaining abutment and foundation will be removed in September.
 - Intake caterpillar gate closed. Concrete portal plug to be completed in September.
 - Demo wood stave flowline
- Completed the following construction activities at Copco 2 Village Area:
 - Penstock demolition continuing.
 - Construction of the Fall Creek culvert replacement continuing.
 - Dry hydrant installations.
- Completed the following construction activities at Iron Gate Dam:
 - Installation of a new vent line. A temporary vent line was hung and the contractors began removing the existing vent line.



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- Left abutment laydown yard construction completed.
- Muck pile at Iron Gate removed.
- Tunnel access pad construction.
- Construction of blind flange closure.
- Gate testing was completed.

Recent FERC Actions

FERC filings related to the Project that occurred at the end of May through the end of July are summarized in Table 1 and included in Appendix B of this report.

County Actions

As a reminder, The Klamath Project Manager (PM) position was contracted at the end of February to help support the County with the Project. The PM has been working with County Staff to reduce their workload on the project by establishing herself as the County’s main point-of-contract (POC) for KRRC, their contractors, and stakeholders (such as the California Department of Fish and Wildlife) for the Project. The County continues to have regularly scheduled update meetings with KRRC and their contractors. Specific topic meetings (i.e., roads and bridges, etc.) have been scheduled for August, and will continue throughout the life of the Project as the need arises. Table 2 outlines the County Project activities performed in August 2023.

Table 2. County Project Activities – August 2023

Dept. / Staff	Activity	Involved Parties	Status
Community Development & PM	Review of updated signage permit and coordination with McMillen.	Project Wide	August
PM	Maintenance of County Permit Table that tracks the submittal, review, and approval (or denial) of each local permit.	PM	Ongoing
PM	Project-wide permit table updates to the County. This is in lieu of Camas and McMillen providing on a bi-weekly call.	PM	Ongoing
PM	Weekly project/permit update calls with McMillen	PM	Ongoing
PM	Attending agency update meetings hosted by McMillen	PM	Ongoing
PM	Completion of preemption form for use by project contractors.	PM & County Staff	Complete
PM & Community Development	Working with RES on proper permitting for installation of fuel tanks.	PM & County Staff	Ongoing
PM, County Administration & PIO	Working together to assist the public and Board of Supervisors in receiving information and communication from KRRC & Contractors (i.e., information on new boat ramp below Iron Gate).	PM & County Staff	Ongoing
PM, PIO	Creation of Project public information materials	PM & County Staff	Ongoing
PM & Public Works	Coordination with KRRC contractors on road damage and maintenance.		
Public Works	Continuing to review and approve transportation permits, only if the over-dimension loads and extra-	Public Works	Ongoing



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legal weight loads fall within the un-shored capacity of both Fall Creek and Dry Creek Bridges. Those in excess (i.e., what the shored bridges are designed to), will not be approved until the bridges are updated.

Upcoming Activities - September 2023

Table 3 summarizes the upcoming Project-level and County-specific activities that are proposed to occur in September 2023.

Table 3. Upcoming Project & County Activities – September 2023

Responsible Party	Activity	Location	Date
KRRC Contractors	Project signage to be installed along roadways within the Project boundary once signage plan is approved by the County.	Project Wide	September
KRRC Contractors	Cultural and biological site surveys for construction activities	Project Wide	Ongoing
KRRC Contractors	Water Quality Monitoring	Project Wide	Ongoing
KRRC Contractors	Advance Copco No. 1 Adit Construction	Copco 1	September
KRRC Contractors	Continue Dam Safety & Vibration Monitoring	Copco 1	September
KRRC Contractors	Copco Reservoir Dredging	Copco Lake	September
KRRC Contractors	Complete Wood Stave Flow Line Demolition	Copco 2	September
KRRC Contractors	Complete Demo on the Penstock	Copco 2	September
KRRC Contractors	Complete Penstock Concrete Plug Installation	Copco 2	September
KRRC Contractors	Advance Powerhouse Decommissioning	Copco 2	September
KRRC Contractors	Advance Powerhouse Tailrace Fill Placement	Copco 2	September
KRRC Contractors	Complete steel penstock removal	Copco 2	September
KRRC Contractors	Removal of the remaining abutment and foundation	Copco 2	September
KRRC Contractors	Maintain temporary BMPs	Copco 2 Village	Ongoing
KRRC Contractors	Steel Penstock Demolition	Copco 2 Village	September
KRRC Contractors	Maintain temporary RV park	Copco 2 Village	September
KRRC Contractors	Complete Fall Creek culvert replacement	Copco 2 Village	September
KRRC Contractors	Install dry hydrant at Fall Creek confluence	Copco 2 Village	September
KRRC Contractors	Water quality monitoring during in water work	Copco 2 Village	Ongoing
KRRC Contractors	Initiate construction of the City of Yreka Waterline	Yreka Waterline	September
KRRC Contractors	Complete removing existing vent line and install new HDPE vent line	Iron Gate	September
KRRC Contractors	Complete construction of super-cavitating baffles	Iron Gate	September
KRRC Contractors	Install new boat ramp below Iron Gate and at Fall Creek confluence.	Iron Gate	September
KRRC Contractors	Private docks removal deadline	Copco Reservoir	October 30
KRRC Contractors	Fall and Dry Creek Bridge Rating Calculations	Fall/Dry Creek Bridges	September
PM	Finalization of FERC Preemption Form to record any project preemption activities initiated by KRRC & their Contractors	Project Wide	September
PM	Weekly update calls with KRRC Contractors	Project Wide	Ongoing



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PM & Community Development	Work with RES on fuel tank installation permitting	Project Wide	September - December
PM, Public Information Officer (PIO) & Supervisors	Bi-weekly update call with Supervisor Criss & Supervisor Haupt	Project Wide	Ongoing
PM, PIO, and KRRC PIO	Bi-weekly call to discuss upcoming public announcements	Project Wide	Ongoing
Community Development	Approval of Project signage plan.	Project Wide	September
Public Works	Review of Fall and Dry Creek Bridge reinforcement calculations	Fall/Dry Creek Bridges	September
Public Works, PM, KRRC Contractors	Meeting to Discuss Fall and Dry Creek Bridges & rating calculations	Fall/Dry Creek Bridges	September
Public Works & PM	Global Transportation Permit development	Project Wide	September - Nov
OES, PM, PIO, McMillen & Kiewit	Initial emergency action plan meeting.	Project Wide	September
Community Development	Approval of wastewater holding and transport	Copco Village	September

Fish Hatchery Project Progress

As a reminder, the construction activities that are occurring as part of the relocation of the Iron Gate Fish Hatchery to the Fall Creek location, while associated with the Project, are not being completed by KRRC or their contractors. Per the FERC Order, the removal of the facilities at Iron Gate, and new build at Fall Creek is the responsibility of PacifiCorp. PacifiCorp will retain ownership of the lands occupied by the Fall Creek Hatchery, with the California Department of Fish and Wildlife (CDFW) leasing the lands and facilities need to operate the hatchery (see FERC Order, page 61, Section HH, Subsection II).

Below is an outline of the major activities that have occurred as part of the fish hatchery relocation project over the past month:

- Site excavation continued for pipe trenches and place piping and electrical.
 - Completed Copco road crossing work.
- Interior walkways installed at the meter vault.
- Began Pre-Engineered Metal Building (PEMB) wall panel and roof panel installation at the Coho Building.
- Began concrete forms for new Coho Raceways.
- Placed concrete for raceway bans 5 – 8 at Chinook Raceways.
 - Banks 1 – 4 were completed in August.
- Completed the foundation of the Spawning building, and formed the last footing and pilaster.
- Placed backfill and subgrade at the adult holing ponds. Began concrete slab framework.
- Placed concrete and installed berm and restored the areas around the fish barrier.
- Placed the concrete at the fish ladder.
- Cofferdam construction in progress at the intake and Dam A.



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Upcoming Fish Hatchery Activities

- Continue to excavate pipe trenches and place piping.
- Place piping from meter vault to raceways.
- Install PEMB (pre-engineered metal building) roof, gutters and downspouts at the Coho Building. Also begin process of piping installation.
- Continue construction of the new Coho Raceways, install coatings and install fish screens.
- Continue electrical and HVAC installation at the Incubation Building.
- Install coatings and process piping in the Chinook Raceways.
- Begin PEMB erection at the Spawning Building.
- Complete the framework and place concrete at the Adult Holding Ponds.
- Begin construction of intake cutoff wall at Dam A and Intake.

Additional Information:

- Klamath Dam Removal Special Meetings will be on hold until September 2023.
 - Information can still be found on the County's Klamath Dam Decommissioning Website (<https://www.co.siskiyou.ca.us/naturalresources/page/klamath-dam-decommissioning-project>).
- We will continue to create staff reports for the Board and the Public which can be accessed on the website.
- Additional important project information (such as upcoming activities, anticipated heavy traffic, etc.) will be communicated through social media, posted in public locations (such as community centers, grocery stores, etc.).
- Any questions or concerns related to the project, please reach out to us via email: [**lkinfo@co.siskiyou.ca.us**](mailto:lkinfo@co.siskiyou.ca.us).

Previous information about the Project, including prior Special Board Meeting Staff Reports are available at the [County's Klamath Dam Decommissioning Website](#). For ease of use, a quick link button directing users to the Project page has been added to the County's main landing page.



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Appendix A. Project Photos



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Aerial view showing the overall Copco No. 1 and No. 2 complex.



Construction of the Copco No. 1 low-level adit is underway.



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Dredging and debris barges moored at Copco No. 1 Dam.



Debris barge in dredging disposal area on Copco Lake.



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Aerial view showing Copco No. 2 demolition progress at the end of July. The dam and right abutment have been removed down to the foundation slab. The remaining demolition of the left abutment and foundation for final channel grading will be completed during weekly outages in September.



Aerial view showing Copco No. 2 wood stave flow line demolition. Wood staves are piled within the flowline alignment to contain contaminated materials.



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Aerial view showing Copco No. 2 steel penstock demolition progress.



Fall Creek Culvert foundation beams and subgrade at Copco 2 Village.



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Fall Creek Culvert multiplate arch and backfill at Copco 2 Village.



Jenny Creek dry hydrant installation at Copco 2 Village.



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Jenny Creek completed dry hydrant installation at Copco 2 Village.



Laydown area on the left abutment at Iron Gate Dam.



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Completed temporary bridge over the fish ladder at Iron Gate Dam.



Access pad to the tunnel face has been constructed at Iron Gate Dam.



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Tunnel portal with temporary vent line at Iron Gate Dam.



Fall Creek Hatchery progress. Chinook raceways banks #5 through #8 complete. Chinook Raceways #1 through #4 wall forms in place.



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Coho Raceways at Fall Creek Hatchery.



Coho Building – PEMB Wall Panel Install at Fall Creek Hatchery.



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Fish Barrier and Fish Ladder at Fall Creek Hatchery.



Chinook Raceway Banks #1 through #4 at Fall Creek Hatchery.



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Appendix B. Recent FERC Filings



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Table 1. Recent Project Actions Submitted Through FERC's eLibrary

Date	Title	File	Description	Link
8/01/2023	Environmental and Recreational Compliance Report	KRRC	Klamath River Renewal Corporation submits Amended Water Quality Monitoring and Protection Plan for Dry Hydrant and Boat Ramp Installation for the Lower Klamath Project License Surrender under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230801-5017
8/04/2023	Environmental and Recreational Compliance Report	KRRC	Klamath River Renewal Corporation submits Final Monthly Report for April 2023, for the California Water Quality Monitoring Plan for the Lower Klamath Hydroelectric Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230804-5006
8/09/2023	General Correspondence Correspondence With Government Agencies	FERC	Letter to Klamath River Renewal Corporation et al discussing the 07/25/2023 Dam Safety Inspection of the Lower Klamath Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230809-3053
8/10/2023	Progress Report	KRRC	Klamath River Renewal Corporation submits Monthly Construction Progress Report for July 2023, for the California Terrestrial and Wildlife Management Plan of the Lower Klamath Hydroelectric Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230810-5021
8/10/2023	Environmental and Recreational Compliance Report	KRRC	Klamath River Renewal Corporation submits July 2023 Monthly Report for the Oregon Terrestrial and Wildlife Management Plan under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230810-5082
8/14/2023	Environmental and Recreational Compliance Report	KRRC	Klamath River Renewal Corporation submits July 2023, Initial Monthly Report for the California Water Quality Monitoring Plan for the Lower Klamath Hydroelectric Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230814-5084
8/14/2023	Compliance Directives General Correspondence Correspondence With Government Agencies	FERC	Letter to Klamath River Renewal Corporation et al providing comments on the Facility Termination Plan for the Copco No. 2 Development of the Lower Klamath Project under P-14803	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230814-3071
8/16/2023	Government Agency Submittal	US DOI	Comments of U.S. Department of the Interior in support of PacifiCorp request to remove the Keno facility from the license for the Klamath Hydroelectric Project under P-2082	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230816-5017
8/16/2023	Progress Report	KRRC	Klamath River Renewal Corporation submits Monthly Construction Progress Report for July 2023, for the Lower Klamath Hydroelectric Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230816-5019 ; https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230816-5020



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8/18/2023	Motion/Notice of Intervention	US DOI	Notice of Intervention of Department of the Interior under P-2082.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230818-5106
8/18/2023	Motion/Notice of Intervention	NOAA	Motion to Intervene of National Oceanic and Atmospheric Administration- Fisheries West Coast Region re Non-Capacity Amendment of License for the Klamath Hydroelectric Project under P-2082.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230818-5110
8/18/2023	Motion/Notice of Intervention	KWUA	Motion to Intervene and Protest of Klamath Water Users Association re Application for Non-Capacity Amendment of License for the Klamath Hydroelectric Project under P-2082.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230818-5199
8/21/2023	Motion/Notice of Intervention	Salmon River Restoration Council	Motion to Intervene of KHSA Conservation and Fishing Signatories under P-2082.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230821-5041
8/21/2023	Environmental and Recreational Compliance Report	KRRC	Klamath River Renewal Corporation submits Aquatic Resources Management Plan re Sucker Salvage and Translocation Final Report for the Lower Klamath Hydroelectric Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230821-5055
8/21/2023	Motion/Notice of Intervention	American Whitewater	Motion to Intervene of American Whitewater under P-2082.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230821-5140
8/21/2023	Motion/Notice of Intervention	CA DNR	(doc-less) Motion to Intervene of California Natural Resources Agency under P-2082	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230821-5175
8/24/2023	Request for Delay of Action/Extension of Time	KRRC	Klamath River Renewal Corporation submits Request for Extension of Time until September 30, 2023, to submit Semi-Quantitative Risk Assessment for the Lower Klamath Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230824-5169
8/25/2023	Correspondence With Government Agencies Delegated Order	FERC	Letter to Klamath River Renewal Corporation et al. granting the 04/19/2023 request for a Part 12D Independent Consultant Periodic Inspection Exemption etc. for the J.C. Boyle Dev. et al. of the Lower Klamath Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230825-3002
8/25/2023	Dam Safety Compliance Report	KRRC	Klamath River Renewal Corporation submits 2023 Dam Safety Surveillance and Monitoring Reports for the Lower Klamath Hydroelectric Project under P-14803.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230825-5107
8/31/2023	Dam Safety Compliance Report	PacifiCorp	PacifiCorp submits 2022 Annual Dam Safety Surveillance Monitoring Report for the Keno Dam et al. of the Klamath Hydroelectric Project under P-2082.	https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20230831-5089