

UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

Klamath River Renewal Corporation
PacifiCorp

Project No. 14803

**AMENDED APPLICATION FOR SURRENDER OF LICENSE FOR
MAJOR PROJECT AND REMOVAL OF PROJECT WORKS AND
REQUEST FOR EXPEDITED REVIEW**

**EXHIBIT C.
PROPOSED CONSTRUCTION SCHEDULE**

I. Interim Operations.

No construction is proposed for purposes of operating or maintaining the Project for power generation.

II. Construction Schedule for Lower Klamath Project Decommissioning.

The “Klamath River Reconstruction Project - Implementation Work Schedule” is appended to this application at **Exhibit C-1**. This construction schedule is based on the 60% design specifications provided by the Renewal Corporation’s contractors.³² Kiewit developed a Critical Path Method (CPM) schedule that takes into account anticipated permitting timelines and details activities for pre-drawdown, drawdown, and dam removal. The schedule was compiled using Kiewit’s standard scheduling processes and achieves a level of detail consistent with projects of this magnitude and complexity. A summary schedule for each development is provided below.

J.C. BOYLE WORK ACTIVITIES

Description	Expected Start	Expected Finish
Pre-Drawdown Work	July 2022	January 2023
Initial Drawdown	January 1, 2023	March 15, 2023
Post-Drawdown Transmission/Distribution Work	March 2023	May 2023
Post-Drawdown Power Canal Removal	April 2023	August 2023
Post-Drawdown Powerhouse and Penstock Removal	April 2023	October 2023
Post-Drawdown Intake Structure Removal	April 2023	September 2023
Post-Drawdown Embankment Removal	July 2023	September 2023
Post-Drawdown Work Platform Removal	August 2023	September 2023
Post-Drawdown Historic Cofferdam Breach	September 2023	September 2023
Volitional Fish Passage		September 30, 2023
Restoration	January 2022	September 2024

Source: Definite Decommissioning Plan at Section 5.1.

³² Exhibit C-1 will be updated (as needed) to true-up the construction schedule with the 90% Design Specifications and any comments received from the BOC, FERC and DSOD.

COPCO NO. 1 WORK ACTIVITIES

Description	Expected Start	Expected Finish
Pre-Drawdown Construction Access (Phases 1 and 2)	July 2022	August 2022
Pre-Drawdown Work	July 2022	October 2022
Early Drawdown (Stage 1)	November 2022	December 2022
Initial Drawdown (Stages 2 and 3)	January 1, 2023	March 15, 2023
Post-Drawdown Transmission/Distribution Work	April 2023	June 2023
Post-Drawdown Diversion Tunnel Reopening	June 2023	June 2023
Post-Drawdown Dam Removal	May 2023	September 2023
Post-Drawdown Powerhouse and Penstock Removal	April 2023	June 2023
Post-Drawdown Diversion Cofferdam Removal	August 2023	September 2023
Volitional Fish Passage		September 30, 2023
Restoration	January 2023	September 2024

Source: Definite Decommissioning Plan at Section 5.2.

COPCO NO. 2 WORK ACTIVITIES

Description	Expected Start	Expected Finish
Pre-Drawdown Construction Access	July 2022	October 2022
Pre-Drawdown Dam Removal	July 2022	September 2022
Drawdown (Plug Removal)	January 2023	January 2023
Post-Drawdown Dam Removal	June 2023	September 2023
Post-Drawdown Intake Structure Work	June 2023	September 2023
Post-Drawdown Transmission/Distribution Work	January 2023	September 2023
Post-Drawdown Powerhouse and Penstock Removal	January 2023	October 2023
Post-Drawdown Wood-Stave Penstock Removal	January 2023	October 2023
Volitional Fish Passage		September 30, 2023
Restoration	January 2023	September 2024

Source: Definite Decommissioning Plan at Section 5.3.

IRON GATE WORK ACTIVITIES

Description	Expected Start	Expected Finish
Pre-Drawdown Construction Access	July 2022	September 2022
Pre-Drawdown Modification	July 2022	October 2022
Pre-Drawdown Tunnel Outlet Grading and Fish Ladder Removal	December 15, 2022	December 31, 2022
Initial Drawdown	January 1, 2023	March 15, 2023
Post-Drawdown Transmission/Distribution Work	April 2023	April 2023

Post-Drawdown Powerhouse/Penstock/Fish Facility Removal	April 2023	August 2023
Post-Drawdown Embankment Removal	June 2023	August 2023
Post-Drawdown Embankment Breach	August 2023	August 2023
Volitional Fish Passage		September 30, 2023
Restoration	January 2023	September 2024

Source: Definite Decommissioning Plan at Section 5.4.

Exhibit C-1

Klamath River Reconstruction Project - Implementation Work Schedule

July 2020

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2022												2023												2024	
						Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb			
Klamath River Reconstruction Project - Implementation Work Schedule - Ju																															
MILESTONES																															
GEN0011	FERC GMP	535	24-Feb-21	02-Jan-24	-178																										
GEN0060	Inspection of Existing Gate at Iron Gate	0	02-Mar-21*		22																										
GEN0003	LNTP - Iron Gate Dam - Gate Procurement	0	01-Apr-21*		0																										
GEN0030	2021 Permit/LNTP for Geotech/Dredging at Copco 1	0	15-Jun-21*		0																										
GEN0001	GMP Amended - Executed	0	01-Oct-21*		-60																										
GEN0040	FERC Surrender Order/ PacifiCorp Operations Turnover	0	01-Apr-22		-185	◆ FERC Surrender Order/ PacifiCorp Operations Turnover																									
GEN0002	Notice to Proceed (NTP)	0	01-Jul-22*		-247	◆ Notice to Proceed (NTP)																									
GEN0019	Fall Creek Hatchery Complete	0		03-Oct-22	-69	◆ Fall Creek Hatchery Complete																									
GEN0018	Yreka Waterline Complete	0		01-Dec-22	-231	◆ Yreka Waterline Complete																									
GEN0006	Pre-Drawdown Work Complete (Complete Dec 31, 2022)	0		09-Dec-22*	17	◆ Pre-Drawdown Work Complete (Complete Dec 31, 2022)																									
GEN3000	Drawdown Complete (Complete by Mar 15, 2023)	0		14-Mar-23*	-26	◆ Drawdown Complete (Complete by Mar 15, 2023)																									
GEN0020	Volitional Fish Passage (Complete by Oct 1, 2023)	0		12-Dec-23*	-238	◆ Volitional Fish Passage (Complete by Oct 1, 2023)																									
GEN0008	Substantial Completion - Dam Removal Work (Complete by Dec 31, 2023)	0		02-Jan-24*	-251	◆ Substantial Completion - Dam Removal Work (Complete by Dec 31, 2023)																									
PRE-CONSTRUCTION																															
3rd Party Work																															
PW1104	Fall Creek Fish Hatchery Construction	153	01-Apr-22	01-Oct-22	-83	Fall Creek Fish Hatchery Construction																									
PW1010	Yreka Water Supply - Cut and Cover	127	01-Jul-22	01-Dec-22	-280	Yreka Water Supply - Cut and Cover																									
PW1114	Fall Creek Fish Hatchery Commissioning	25	02-Sep-22	01-Oct-22	-83	Fall Creek Fish Hatchery Commissioning																									
PRE-DRAWDOWN YEAR																															
Project Wide																															
Roads and Bridges																															
PW1003	Lakeview Bridge - Install Temp Bridge (Iron Gate)	19	01-Jul-22	23-Jul-22	-49	Lakeview Bridge - Install Temp Bridge (Iron Gate)																									
PW0044	Copco Road - Site Access Improvements	49	01-Jul-22	29-Aug-22	16	Copco Road - Site Access Improvements																									
PW1004	Daggett Rd Bridge - Install Temp Bridge (Copco 2)	19	25-Jul-22	15-Aug-22	-49	Daggett Rd Bridge - Install Temp Bridge (Copco 2)																									
PW1001	Dry Creek Bridge - Install Temp Bridge-Over-Bridge (Copco)	12	30-Aug-22	13-Sep-22	29	Dry Creek Bridge - Install Temp Bridge-Over-Bridge (Copco)																									
PW1002	Fall Creek Bridge - Temp Bridge-Over-Bridge (Copco)	12	14-Sep-22	27-Sep-22	29	Fall Creek Bridge - Temp Bridge-Over-Bridge (Copco)																									
Demo Recreation Sites																															
PW1008	Recreation Area Demo - JC Boyle	19	30-Aug-22	21-Sep-22	16	Recreation Area Demo - JC Boyle																									
PW1020	Recreation Area Demo - Copco	12	22-Sep-22	05-Oct-22	16	Recreation Area Demo - Copco																									
PW1030	Recreation Area Demo - Iron Gate	54	06-Oct-22	09-Dec-22	16	Recreation Area Demo - Iron Gate																									
Copco 1																															
Site Prep																															
CO10062	Mobe and Set Up Trailers at Copco Village 2	18	01-Jul-22	25-Jul-22	-167	Mobe and Set Up Trailers at Copco Village 2																									
CO10290	Set up Site Security	18	01-Jul-22	25-Jul-22	-146	Set up Site Security																									
CO20451	Borrow/ Process Material for Access Pad	18	25-Jul-22	15-Aug-22	-165	Borrow/ Process Material for Access Pad																									
CO10040	Erosion Control	10	25-Jul-22	05-Aug-22	-146	Erosion Control																									
CO10041	Clear and Grub	12	05-Aug-22	19-Aug-22	-146	Clear and Grub																									
CO10031	Prep Staging Areas and Disposal Site	30	19-Aug-22	24-Sep-22	-146	Prep Staging Areas and Disposal Site																									
CO10021	Pioneer Access Roads (Copco 1 to Disposal Site)	40	19-Aug-22	06-Oct-22	-184	Pioneer Access Roads (Copco 1 to Disposal Site)																									
Upstream Work																															
CO10030	Install Turbidity Curtain	12	25-Jul-22	06-Aug-22	-93	Install Turbidity Curtain																									
CO10010	Mobilize Barge onto Reservoir	18	08-Aug-22	27-Aug-22	-93	Mobilize Barge onto Reservoir																									
CO10210	Dredge Upstream Debris at Adit and Diversion Tunnel Intake	20	29-Aug-22	21-Sep-22	-93	Dredge Upstream Debris at Adit and Diversion Tunnel Intake																									
CO10052	Demobilize barge	10	22-Sep-22	03-Oct-22	-93	Demobilize barge																									
Downstream Work																															
CO10034	Install Downstream Access to Base of Dam/ Access through Powerhouse	18	15-Aug-22	03-Sep-22	-91	Install Downstream Access to Base of Dam/ Access through Powerhouse																									
CO10380	Set Up for Tunnel Exc	12	06-Sep-22	19-Sep-22	-165	Set Up for Tunnel Exc																									
CO10071	Drill and Shoot Adit (Plug intact) (Double Shift)	10	20-Sep-22	30-Sep-22	-165	Drill and Shoot Adit (Plug intact) (Double Shift)																									
CO10340	Remove Existing Concrete from Adit (Double Shift)	10	01-Oct-22	12-Oct-22	-165	Remove Existing Concrete from Adit (Double Shift)																									
CO10360	Install Anchors and Rebar (Double Shift)	3	13-Oct-22	15-Oct-22	-165	Install Anchors and Rebar (Double Shift)																									
CO10451	Grade Pad/ Set Cradles/ Install Outlet Pipe (Double Shift)	23	17-Oct-22	12-Nov-22	-265	Grade Pad/ Set Cradles/ Install Outlet Pipe (Double Shift)																									
CO20461	Backfill Outlet Pipe	6	14-Nov-22	19-Nov-22	-265	Backfill Outlet Pipe																									
Copco 2																															
CO20011	Erosion Control	10	01-Jul-22	15-Jul-22	-174	Erosion Control																									
CO20012	Set Up Staging Areas	18	15-Jul-22	05-Aug-22	-174	Set Up Staging Areas																									
CO20013	Prep Site and Clear and Grub	10	15-Jul-22	27-Jul-22	-166	Prep Site and Clear and Grub																									
CO20014	Pioneer Access Roads	18	05-Aug-22	26-Aug-22	-174	Pioneer Access Roads																									
CO2001	Divert All Water Through Intake with Tainter Gates Closed	3	26-Aug-22	29-Aug-22	-100	Divert All Water Through Intake with Tainter Gates Closed																									
CO2003	Construct Temporary Access Track and Work Pad	24	30-Aug-22	27-Sep-22	-100	Construct Temporary Access Track and Work Pad																									
CO2005	Demo Portion Spillway Concrete to Ele 2459.5 (Bay #1)	6	28-Sep-22	04-Oct-22	-174	Demo Portion Spillway Concrete to Ele 2459.5 (Bay #1)																									
CO2140	Build Drawdown Channel (Downstream of Bay 1)	6	05-Oct-22	11-Oct-22	-100	Build Drawdown Channel (Downstream of Bay 1)																									

