

**Hydroelectric Department Project Status Report
September 29, 2023**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	Facility	PM
CIP Budgeted Projects									
84	2094	Scotts Flat Spillway Repair and Upgrade	Studies and hydraulic modeling of favorite alternatives; design of modifications of spillway chute, chute walls, and the terminal energy dissipation structure; construction of the design.	Design	30% Design review being reviewed by NID staff. Board approved application fees at the September 27th board meeting. Submittal of 30% design and DSOD application to be submitted on October 6th. In person discussion with DSOD on the 30% design proposed for Dec 1st along with discussion regarding upper plunge pool/weir. Work on the application for the DOE 247 grant ongoing. Stantec working on project description and development of package to begin initiation of NEPA. Development of the 90% civil drawings on the access and staging areas ongoing and anticipate for NID review in later October.	\$ 1,500,000	2017-2025	57901 - Scotts Flat Reservoir	DR
82	2655	Chicago Park Powerhouse Refurbishment	Replace or upgrade the existing turbine, main transformer, and their appurtenances. Replace deteriorated generator windings, insulation, poles, and other generator appurtenances. The last rewind was completed in 1991, and test results are showing signs of needing to complete another.	Planning	Hydro has received and is reviewing the final scoping report. Once completed, a list of action items will be developed and implemented to progress the project.	\$ 2,500,000	2019-2025	57300 - Chicago Park Powerhouse	ND
75	2394	Rollins Powerhouse Relay Protection Upgrade	Upgrade protective relay system by removing original (1980's vintage) electro-mechanical relays and installing new programmable, multi-function relays and annunciators.	Pre-Construction	NID has reviewed the 100% design package which has been submitted to PG&E for review and coordination. New protective relay settings have been received and sent to PG&E for review. Material purchasing is complete. Pre-outage work is underway. Panel fabrication and relay pre-testing is complete.	\$ 400,000	2019-2023	57400 - Rollins Powerhouse	ND
75	2392	Rollins Powerhouse Governor Upgrade	Replace or upgrade the existing governor and appurtenances.	Planning	Hydro is scoping the project and is discussing alternatives with several vendors. An RFP for the project will be released for the design phase of the project later in 2023.	\$ 150,000	2019-2024	57400 - Rollins Powerhouse	ND
75	2658	French Lake Low Level Outlet Gate Refurbishment	Repair or replace the hydraulic gate control system pending underwater inspection.	Planning	Dive inspection performed on 8/15/23. Measurements of underwater equipment were recorded. Will order materials for next phase of line replacement and possible cylinder removal and refurbishment in 2024.	\$ 200,000	2023-2024	57106 - French Lake	PN
73	2552	Scotts Flat Powerhouse Fire Detection Upgrade	Install new smoke and/or heat detection systems in the Scotts Flat Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Pre-Construction	The 100% design package has been accepted, and Hydro has ordered materials needed for construction in 2023. Planning for construction is underway.	\$ 30,000	2021-2023	57900 - Scotts Flat Powerhouse	TM

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73	2553	Combie North Powerhouse Fire Detection Upgrade	Install new smoke and/or heat detection systems in the Combie North Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Pre-Construction	The 100% design package has been accepted, and Hydro has ordered materials needed for construction in 2023. Planning for construction is underway.	\$ 30,000	2021-2023	57600 - Combie North Powerhouse	TM
73	2554	Combie South Powerhouse Fire Detection Upgrade	Install new smoke and/or heat detection systems in the Combie South Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Pre-Construction	The 100% design package has been accepted, and Hydro has ordered materials needed for construction in 2023. Planning for construction is underway.	\$ 30,000	2021-2023	57700 - Combie South Powerhouse	TM
73	2665	Deer Creek Powerhouse Communications Upgrade	Design and install a new microwave data link from KLOVE Tower/Deer Creek Powerhouse to Hydro HQ. Includes specifying hardware, design, and installation work.	Planning	The FCC has issued the District the licenses needed for the new microwave link from KLOVE tower to the Chicago Park Powerhouse. A bill of materials has been received and planning is underway for project implementation.	\$ 150,000	2023	57900 - Scotts Flat Powerhouse	TK
71	2597	Jackson Lake Toe Slope Protection Improvements	Design and construct stabilization measures to ensure the long-term stability of the toe slopes near the downstream outlet end.	Construction	Construction began on 09/17 and will be completed in October, 2023.	\$ 100,000	2021-2023	57105 - Jackson Lake	LC
71	2581	Combie North Powerhouse Capacitor Bank Upgrade	Design and support the installation of a new capacitor bank for Combie North Powerhouse.	Design	Hydro has received the design package and bill of materials for a new capacitor bank for the Combie North Powerhouse. Procurement is complete. Construction is being planned for 2023.	\$ 50,000	2021-2023	57600 - Combie North Powerhouse	TK
71	2544	Dutch Flat #2 Powerhouse Cooling Water System Upgrade	Upgrade the cooling water system at DF2PH and integrate this into the BOP PLC (existing is original, 1960's vintage). Replace analog gauges with new HMI screen, add new flowmeters and pressure transmitters, and replace piping.	Construction	Construction began on 09/17 and will be completed in early October.	\$ 300,000	2020-2023	57200 - Dutch Flat #2 Powerhouse	TH
70	2483	Dutch Flat #2 Powerhouse Backup Generator	Design and installation of new backup generator at Dutch Flat #2 Powerhouse.	Design	Design has been completed by consultants. A bill of materials has been developed. Bids for the new switchgear have been received. Engineering will move to procure necessary materials in 2023. The low voltage switchgear was ordered on 04/24/2023 and is expected to be delivered in about 40 weeks.	\$ 100,000	2020-2023	57200 - Dutch Flat #2 Powerhouse	TH
69	2339	Rucker Creek Spill Gate Replacement	Replace existing radial gate at Rucker Creek Diversion with an overshot gate to improve personnel safety and operational performance.	Planning	Final Plans and Specifications completed and sent to Hydro. Hydro staff working on other items for the FERC submittal.	\$ 250,000.00	2019-2023	57207 - Rucker Creek Diversion	DR

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69	2663	Dutch Flat Afterbay Hydraulic Line Refurbishment	Repair or replace the hydraulic gate control system pending inspection. Add lighting to the outlet tunnel to improve the safety of District staff operating the low level outlet valve.	Planning	Hydro maintenance is purchasing hydraulic line crimping tool and materials to replace fittings.	\$ 50,000.00	2023-2024	57301 - Dutch Flat Afterbay	PN
68	2432	New Hydroelectric Field Office	Complete office/building renovations, make repairs to the roof, install perimeter fencing, upgrade communications, and install a backup generator.	Planning	Hydro has finalized a conceptual layout plan for the new building from its architect and has received a proposal to move on to detail design. IT coordination has begun. A condition assessment report for the roof has been received and reviewed. A line of site survey of communications paths to the new building was completed successfully in June. HVAC inspection has been completed. An RFQ for a perimeter fence and gate is being developed.	\$ 1,950,000.00	2019-2024	57010 - Hydro Headquarters	ND
68	2598	Chicago Park Powerhouse Remote Terminal Unit Replacement	Specify, procure, and install new remote terminal unit (RTU) for Chicago Park Powerhouse to provide modern, onsite SCADA alarming.	Design	Project design is underway. The 50% design is expected in October/November. Design will continue into early 2024. Construction is scheduled for the Fall of 2024.	\$ 400,000.00	2021-2024	57300 - Chicago Park Powerhouse	TH
67	2347	Combie North Powerhouse CAISO Meter	Purchase and install new CAISO meter and appurtenances in the Combie North Powerhouse.	Hold	Project is on hold.	\$ 150,000.00	2019-2024	57600 - Combie North Powerhouse	TH/TB
64	6943	Combie South Powerhouse Access Road	Plan and design a new access road to the Combie South Powerhouse. Includes identifying necessary land acquisitions, completing survey and design work, and construction. Access road shall meet fire safe standards and will be secured with a new gate.	Construction	All items completed with exception of wiring and connection of the solar panel to the automatic gate actuator and key entry pad. Parts still on order. Hansen's work mostly done, with exception of final punchlist items.	\$ 250,000.00	2019-2023	57700 - Combie South Powerhouse	AS
62	2576	Fall Creek Diversion Flume Improvements	Replace flume sheets and associated hardware.	Planning	Flume materials were purchased and delivered in 2022. Hydro is evaluating needs to replace structural lumber in 2023.	\$ 150,000.00	2021-2024	57205 - Fall Creek Diversion	PN