Priority	Project Manager	Project	Project No.	Description	Status	Comments		
10-1 H	10-1 HYDRO NON-PROGRAMMATIC (\$250,000) 50112-52915							
1	Keane Sommers	Hydro HQ	2432	New Hydroelectric Office Design/Construction	Hold	The Energy Center program components are under development. The new maintenance facility and storage yard draft predesign by the architect is complete. The three energy/carbon concept studies are complete; forest carbon sequestration, pumped storage, and solar field. A draft Energy Management Strategy Summary has been received and is under review. Once all efforts are completed, findings will be summarized to present options and alternatives for developing the site into various levels of renewable energy generation and carbon zero footprint.		
10-2 H	YDRO POWERHOUS	SE IMPROVEMENTS	(\$1,925,000)	50112-52920				
1	Nathan Droivold	Chicago Park Powerhouse	2402	Chicago Park Powerhouse Instrumentation Upgrade. Install instrumentation that will enable operators to monitor flow, temperature, and pressure of vital powerhouse components.	Construction	Final design complete. Procurement of project materials is nearly complete. Construction is underway. Bench testing of new system is complete. The new cooling water system will be installed during the 2021 annual outage for Chicago Park Powerhouse in September.		
2	Nathan Droivold	Rollins Powerhouse	2351	Rollins Powerhouse Oil Circuit Breaker Replacement. Replace the existing oil circuit breaker (OCB) at the Rollins PH with a more environmentally acceptable vacuum circuit breaker.	Design	New drawing package and bill of materials for breaker interconnection to Rollins PH is complete. Breaker manufacturing is complete and NID witnessed production testing prior to shipment. Breaker has been delivered and installation is planned for October/November 2021. Coordination with PG&E is ongoing. Procurement of interconnection materials is ongoing.		
3	Nathan Droivold	Rollins Powerhouse	2393	Rollins Powerhouse Balance of Plant. Install an expandable balance of plant to monitor critical plant systems such as excess vibration of the turbine and generator, temperature, and flow.	Construction	Design is complete. Procurement is complete. Construction is underway. Installation is scheduled for October/November of 2021 during the annual plant outage for RPH.		
4	Adrian Schneider	Chicago Park Powerhouse	2164	Chicago Park Powerhouse Fire Suppression System Upgrades. Upgrade of existing CO2 system (piping, alarms, sensors) to protect Generator. Includes installation of new Clean Agent suppression system for control room and the addition of a fire detection system for electrical cable trays.	Construction	As-builts received by NID and being reviewed internally by Hydro for accuracy and completeness. New safety procedures are being developed and will be implemented prior to putting the new fire suppression system into service later in 2021.		
5	Kaylie Hague	Scotts Flat Powerhouse	2552	SFPH Fire Detection Upgrades: Install new smoke detection systems in the Scotts Flat Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Design	Hydro is reviewing the draft basis of design report and 50% design submittal for the new fire detection systems. Design and installation is scheduled to be completed by the end 2021.		
6	Kaylie Hague	Combie North Powerhouse	2553	CNPH Fire Detection Upgrades: Install new smoke detection systems in the Combie North Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Design	Hydro is reviewing the draft basis of design report and 50% design submittal for the new fire detection systems. Design and installation is scheduled to be completed by the end 2021.		

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10-2 H	10-2 HYDRO POWERHOUSE IMPROVEMENTS (\$1,925,000) 50112-52920							
7	Kaylie Hague	Combie South Powerhouse	2554	CSPH Fire Detection Upgrades: Install new smoke detection systems in the Combie South Powerhouse that includes alarming and callout features to notify staff in case of fire while unoccupied.	Design	Hydro is reviewing the draft basis of design report and 50% design submittal for the new fire detection systems. Design and installation is scheduled to be completed by the end 2021.		
8	Adrian Schneider	Combie Reservoir/Combie South Powerhouse	6943	Combie South Access Road. Develop approx. 3,000 ft. from south abutment.	Design	NID Right of Way received counter-offer from Arroyo on August 13, 2021. Will review and respond. Construction is planned for Fall/Winter 2021.		
9	Nathan Droivold	Combie South Powerhouse	2168	Combie South Electrical Upgrades: replace an existing 12kV transformer and associated containment pad.	Design	Construction of a new containment pad and the transformer replacement are underway. Completion and transformer testing is expected to be completed by the end of October.		
10	Nathan Droivold	Rollins Powerhouse	2394	Rollins Powerhouse Relay Protection Upgrade. Replace aging relay protection system to improve protection of the powerhouse relay, transformer, and generator.	Planning	The RFP was released in August for the design phase of the project. Proposals are due in September. Construction is scheduled for the fall of 2022.		
11	Thomas Kluge	Dutch Flat #2 Powerhouse	2483	Dutch Flat #2 Powerhouse Backup Generator: All costs associated with the installation of new backup generator at Dutch Flat #2 Powerhouse.	Design	Design is underway. A project kickoff meeting was held in late July.		
12	Nathan Droivold	Chicago Park Powerhouse	2362	Chicago Park Powerhouse Transformer Replacement. Procure and install a new main transformer at the Chicago Park Powerhouse.	Planning	Hydro is working with an engineering consultant to perform a condition assessment of the existing equipment in the Chicago Park PH to make recommendations for future repair or replacement. A site visit was made in late April to complete a facility inspection. First draft of the condition assessment report has been reviewed by Hydro. The project scope will be developed after reviewing this report in 2021.		
13	Nathan Droivold	Chicago Park Powerhouse	2353	Chicago Park Powerhouse Turbine Overhaul. Replace worn turbine and appurtenances.	Planning	Hydro is working with an engineering consultant to perform a condition assessment of the existing equipment in the Chicago Park PH to make recommendations for future repair or replacement. A site visit was made in late April to complete a facility inspection. First draft of the condition assessment report has been reviewed by Hydro. The project scope will be developed after reviewing this report in 2021.		
14	Nathan Droivold	Deer Creek Powerhouse	2290	Deer Creek Powerhouse Upgrades: Make upgrades necessary to sell power upon close of sale.	Hold	Hydro is finalizing plans for a new gaging station on the South Yuba Canal that will measure flow supplying Deer Creek PH. Discussions with PG&E are ongoing. These plans will be sent to PG&E for approval prior to installation.		
15	Thomas Kluge	Combie North Powerhouse	2581	Combie North Powerhouse Capacitor Bank Upgrade: Design and replace existing capacitor bank at Combie North Powerhouse to improve the reliability and efficiency of power generation of the facility.	Hold	Project setup complete. Project will remain on hold until 2022.		
16	Nathan Droivold	Rollins Powerhouse	2392	Rollins Governor Replacement. Replace worn governor and appurtenances.	Hold	Hydro to begin project scoping later in 2021. Installation is scheduled for 2022.		

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10-2 H	10-2 HYDRO POWERHOUSE IMPROVEMENTS (\$1,925,000) 50112-52920							
17	Nathan Droivold	Dutch Flat #2 Powerhouse	2544	Dutch Flat #2 Powerhouse Cooling Water System Upgrade. Install new instrumentation that will enable operators to monitor flow, temperature, and pressure of vital powerhouse components.	Hold	Hydro will solicit proposals to complete the design of a new cooling water system in 2021. Installation is planned for 2022.		
18	Nathan Droivold	Dutch Flat #2 Powerhouse	2240	Dutch Flat #2 Powerhouse Fire Suppression System Upgrades. Designing, installing and commissioning a new CO2 fire suppression system for the Dutch Flat #2 Powerhouse.	Hold	Hydro has received a draft basis of design report from its consultant for a new fire suppression system at the Dutch Flat #2 Powerhouse. Hydro has reviewed and provided comments for revisions to the document. A final draft of the basis of design report is expected during Q1 2021.		
19	Nathan Droivold	Bowman Intertie	2354	Bowman Interties SF6 Breaker Replacement. Replace the existing Bowman Inter-tie SF6 breaker with a more environmentally friendly vacuum circuit breaker.	Hold	Hydro will replace the existing SF6 breaker with a vacuum circuit breaker after completion of the oil circuit breaker replacement at Rollins PH (FATR# 2351).		
20	Nathan Droivold	Rollins Powerhouse	2379	Rollins Powerhouse Fire Protection System. Provide fire protection system for Rollins Powerhouse (design, installation and commissioning).	Hold	Hydro to begin project scoping in 2021. Installation is scheduled for 2022.		
21	Nathan Droivold	Deer Creek Powerhouse	2342	Deer Creek Powerhouse Controls and Automation Upgrades. Install programmable logic controller and automate the Deer Creek Powerhouse.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.		
22	Nathan Droivold	Deer Creek Powerhouse	2395	Deer Creek Powerhouse Exciter Replacement. Replace exciter and appurtenances.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.		
23	Nathan Droivold	Deer Creek Powerhouse	2343	Deer Creek Powerhouse Generator Breaker Replacement. Replace the existing generator breaker with a generator breaker and cabinet to mitigate an arc flash safety hazard at the Deer Creek Powerhouse and improve reliability.	Hold	Hydro to begin project scoping in 2021 with construction scheduled to start in 2022. Project schedule assumes NID will takeover PG&E facilities in 2021.		
10-3 HY	10-3 HYDRO DAM & WATER IMPROVEMENTS (\$2,660,000) 50112-52921							
		Scotts Flat Spillway		Scotts Flat Spillway Repair & Upgrades	Design	Model testing is approximately 80% completed, with the remaining flip-bucket to be configured and tested. New results of cost estimation will help the District select between the existing sloped walls and new vertical walls for the spillway chute. The DOSD and FERC required witness testing of the final model is expected to occur in October-November 2021, and the final alternatives report including the preferred solution is expected toward the end of 2021.		
2	Adrian Schneider	French Dam	2360/2007	French Dam Upgrades. Replace the damaged sections of the concrete lining on the upstream dam face to minimize leakage, modify the spillway training walls to prevent over topping, and construct a gaging station on the dam outlet to measure flow.	Construction	Work on dam face in progress - old shotcrete and failing material being removed. Training walls are near complete with mesh wire added and anchors set in place. Measuring weir in stream to be started the week of September 6. Shotcreting of all structures anticipated near the end of September.		

Priority	Project Manager	Project	Project No.	Description	Status	Comments		
10-3 H	10-3 HYDRO DAM & WATER IMPROVEMENTS (\$2,660,000) 50112-52921							
3	Dar Chen	Bowman North Dam	2359	Bowman North Upstream Lining Repair. Replace damaged sections of the lining on the upstream dam face of the Bowman North and South Dams to minimize leakage through the dams.	Planning	To take advantage of the low reservoir level in 2021, Hydroelectric Maintenance will complete repairs of several lining joints and a major concrete panel spall in October. NID Survey will also complete a photogrammetry survey to map all features of the upstream face of the dam. Depending on DSOD's final requirements, TBD, the District will come up with a reasonable plan that meet the dam safety requirements.		
4	IDar Chen	Combie/Van Giessen Dam	201402	Combie Dam Stabilization. Improve abutment protection against scouring, and water supply upgrades.	Hold	The final alternatives report has been received and a preferred solution has been selected. Construction is planned for 2025-2026.		
10-4 H	YDRO LOWER DIVIS	SION WATER IMPRO	VEMENTS (\$	100,000) 50112-52922				
	Nathan Droivold	Chicago Park Forebay/Canal	2511	Chicago Park Forebay/Canal Liner Replacement. Repair segments of the Chicago Park Canal where existing shotcrete liner needs replacement.	Hold	Hydro received a report from Engineering reviewing the findings of the September site visit and damage assessment with Hydro. Hydro and Engineering will hold scoping discussions and start the development of a design report with an alternatives analysis in Q1 2021.		
2		Chicago Park Powerhouse	2551	Chicago Park Powerhouse Tailrace Repair: evaluate and address erosion concerns of the tailrace foundation.	Hold	Hydro received a report from Engineering reviewing the findings of the September site visit and damage assessment with Hydro. Hydro will hold scoping discussions and start the development of a design report with an alternatives analysis in Q1 2021.		
3	Nathan Droivold	Dutch Flat Canal	2545	Dutch Flat Canal Liner Replacement. Repair segments of the Dutch Flat Canal where existing shotcrete liner needs replacement.	Hold	Hydro will solicit a condition assessment of the existing liner system in 2021 in order to plan for future repairs.		
10-5 H	10-5 HYDRO UPPER DIVISION WATER IMPROVEMENTS (\$300,000) 50112-52923							
1	Doug Roderick	Bowman-Spaulding Canal	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.	Design	Engineering is working with Hydro to develop specifications for the new gate and a preliminary construction plan. Engineering has contacted gate manufacturer's for quotes and estimate of lead times. Engineering made a site visit during the June annual outage to collect measurements inside of the canal while dry. FERC required review may delay project progress.		
2	Phil Nedved	Bowman-Spaulding Canal	2404	Fall Creek Flume Upgrades. Make structural enhancements to improve the reliability of the Fall Creek Flume.	Planning	Hydro has received quotes for the project bill of materials. Hydro made a site visit in June to evaluate the condition of flume hardware to determine what can be reused in future upgrades. Hydro will request an updated material quote based on these findings.		

Priority	Project Manager	Project	Project No.	Description	Status	Comments	
10-5 HY	10-5 HYDRO UPPER DIVISION WATER IMPROVEMENTS (\$300,000) 50112-52923						
3	Phil Nedved	Fall Creek Diversion	2576	Fall Creek Diversion Improvements. Make structural enhancements to improve the reliability of the Fall Creek Diversion Flume.	Planning	Hydro has received quotes for the project bill of materials. Hydro made a site visit in June to evaluate the condition of flume hardware to determine what can be reused in future upgrades. Hydro will request an updated material quote based on these findings.	
4	Dar Chen	Bowman-Spaulding Canal	2525	Texas Creek Flume Repairs. Repairs along the Bowman-Spaulding Canal below the Texas Creek Diversion.	Design	NID Board approved contract to Glissman Excavating on July 28, 2021. Both FERC and USFS have approved the proposed construction plans. The contractor plans to mobilize to the site in late September and to complete the construction by mid October 2021.	
5	Nathan Droivold	Wilson Creek Diversion	2546	Wilson Creek Diversion Rehabilitation. Repair and modify the Wilson Creek Diversion Dam structure to ensure diverted flows are measurable and accurate.	Planning	Engineering prepared a preliminary design for a temporary solution to improve flow measurement and diversion for the 2021-22 winter season. Hydro submitted this package to USFS for approval and is awaiting a response.	
10-6 HY	10-6 HYDRO SCADA/COMMUNICATION UPGRADES (\$200,000) 50112-52924						
1	Keane Sommers	Hydro HQ	2405	Hydro Office Radio Tower	Planning	Final draft of the line of site report and survey findings were submitted to NID for review.	
05 - RAW WATER SYSTEM IMPROVEMENTS (\$1,250,000) 10151-52910							
9	Dar Chen	Loma Rica Dam	2529	Loma Rica Dam Repairs	Planning	Hydroelectric plans to complete the seismic retrofit alternatives studies by November 2021. Then the project will be ready to move into the design phase, which is planned to start in 2025.	