

MEMORANDUM

August 12, 2022

TO: Board of Commissioners

FROM: Kevin Nordt, Chief Resource Officer

SUBJECT: Recommendation for continued Small Modular Reactor (SMR) development exploration.

Purpose: To transmit the consensus recommendation of the SMR Evaluation Team regarding further exploration of an SMR resource.

Recommendation: The Evaluation Team recommends that the District continue its exploration of the development of an X-energy Xe-100 power resource. Further, it recommends that all efforts associated with the development of a NuScale SMR plant end immediately. The recommendation regarding NuScale concerns both the District's exploration of its own NuScale development as well as its participation in the UAMPS Clean Future Power Project (CFPP). Per Board the approved technology selection process, the Evaluation Team's recommendation was independently reviewed and affirmed. The Evaluation Team's recommendation showed strong consensus. Moreover, the recent announcement by Ontario Power Group that the Xe-100 is its preferred choice for a clean nuclear industrial heat source as well as Dow Company's announcement, this week, for its planned development of an Xe-100 reactor plant at one of its U.S. Gulf Coast sites add strength to the validity of our recommendation.

Discussion: Over the course of the last eighteen months, the District has conducted investigations into the feasibility and potential for a SMR power resource to meet its growing power demand. After initial feasibility was demonstrated, a dedicated team was formed and empowered to perform due diligence on the two most promising nuclear technologies – NuScale's VOYGR-6 and X-energy's Xe-100. The SMR Exploration Team consisted of both District and Energy Northwest personnel. Energy Northwest brings tremendous nuclear power experience and cost-effective support to the District. Periodic briefings regarding the findings of this team were supplied to the Board. Throughout the due diligence period, continuing work was made based upon the direction and the guidance of the Board. In April 2022, the Chief Resource Officer informed the Board that the team was rapidly approaching a point where "down-selecting" to one, if any, technology would be appropriate. Permission to both continue due diligence work and to work towards establishing an effective technology selection process was received. The Chief Resource Officer committed to delivering a recommendation regarding future SMR exploration to the Board by August 2022. An Evaluation Team was assembled to support this commitment. The Evaluation Team included six highly experienced power professionals. The Evaluation Team included: Kevin Nordt, Kevin Marshall, Marie Thomas, Ken Langdon, Greg Cullen, and Alex Javorik. Together, this team brought more than 140 person-years of nuclear and non-nuclear power engineering, operations, and management experience to the technology selection process. The Evaluation Team developed and proposed evaluation criteria and a process for Grant's selection. This process was evaluated and reviewed by two highly experienced nuclear power professionals – Dr. Andrew Kadak and Mr. Ed Kee. Together, these reviewers brought greater than eighty person-years of experience to the problem. The twelve-step evaluation process was detailed and robust. It was shared with Board and employed after the Board affirmed it. The evaluation considered a broad set of criteria, both qualitative and quantitative.

The evaluation process was fully exercised. It resulted in a strong consensus recommendation to continue exploration of an SMR plant for the District. The independent review of the Evaluation Team's recommendation affirmed a thorough process and a justified recommendation. Such exploration also contemplates bringing on wholesale power purchasers, via long term power sales contracts, to mitigate the operational and development risks of the project. There is a mutually beneficial opportunity here for wholesale purchasers to gain access to clean firm dependable capacity and energy while the District gains risk mitigation.

The outcome of the Evaluation Team could have been to cease or defer any further exploration in SMR space or to continue with one preferred technology. The Evaluation Team found sufficient potential exists with the Xe-100 to justify further exploration of it as a power resource. That is our recommendation to the Board. Ultimately, any subsequent SMR exploration activities will be at the direction of the Board. We recommend the Xe-100 due to its technical and economic potential as a firm, dependable, flexible, power and energy resource for the District and the region. It was found to exhibit superior operational, safety, maintenance, and licensing attributes. The recommendation here is not to proceed with a commitment to build an SMR nor to begin significant activities such as a license application. Rather, this recommendation is to support further exploration to be ready to make subsequent decisions as to the viability of an Xe-100 SMR plant. Per the SMR project schedule, the next major decision milestone, Board allowing, is set for Q1-2023. At that point, with further investigation as to potential transaction structure, Advanced Reactor Demonstration Program modifications to reduce District risk, greater information on the Xe-100's licensing disposition, its economics, and the opportunity for local public process, the District would be in the position to contemplate larger scale project development commitments. The ability to gain the needed information from X-energy, the US Department of Energy (DOE), the US Nuclear Regulatory Commission, and our customers requires additional study work. The Evaluation Team's recommendation to the Board is to pursue those activities.

To reach the conclusions supporting this recommendation, an immense amount of work was done. The speed and quality of the work performed in support of the recommendation was extremely high. Grant has established itself firmly as a serious entrant into the US nuclear power space. The contributions of the SMR Exploration Team are to be recognized and commended. This extraordinary work underpinned a strong recommendation by the Evaluation Team. The following people are noted for their exemplary contributions to getting us to this point:

District Staff: Paul Dietz (Exploration Team), Bryce Greenfield (Exploration Team), Dave Dempsey (Exploration Team), Andrew Munro (Exploration Team), Brent Gregory (Exploration Team), Thomas Karcz (Exploration Team), Julie Pyper (PMO), Kevin Marshall (Exploration Team, Evaluation Team).

Energy Northwest Staff: Don Gregoire (Exploration Team), Jason Herbert (Exploration Team), Marie Thomas (Exploration Team, Evaluation Team), Alex Javorik (Exploration Team, Evaluation Team), Greg Cullen (Exploration Team, Evaluation Team), Ken Langdon (Evaluation Team), Brad Swatzke (Executive Support), Bob Schuetz (Executive Support).

External Consultants: Jaisen Mody, Dr. Adrew Kaday, and Ed Kee.

As a strong team, this group has completed an extraordinary due diligence effort. The depth of study, questioning, and objective analysis was outstanding. Wherever the Board decides to go, it can be assured of and proud of an extremely solid foundation to base its decision upon.

Recommended Next Steps: I recommend that the Board accept the Evaluation Team's recommendation to continue SMR exploration with X-energy and cease work with NuScale. Immediate next steps, if the Board sustains this recommendation, would be to continue the District's wholesale marketing efforts, via project development participation agreements; to conduct additional financial analysis of X-energy; to explore potential commercial arrangements with X-energy so as to better understand project costs and risks; to begin discussions with the DOE regarding ARDP modifications to allow the District the price-risk profile it requires; to issue an Request-for-Qualifications (RFQ) for an Owner's Engineer; and to work with the Board to develop a public process for District customers and stakeholders to be able to engage in these efforts.

MEMORANDUM

Date: August 1, 2022

To: Bonnie Overfield, Chief Operating Officer

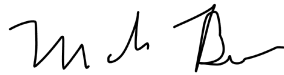
Via: Angelina Johnson, Manager of Treasury Operations/Deputy Treasurer



Ryan Holterhoff, Senior Policy Advisor



From: Mark Buchta, Senior Financial Analyst



Purpose: To update the Commission regarding the future status of Federal CREBs and BABs rebates and subsidies.

Discussion:

- 2008 credit crisis triggered the Federal Government to implement a program for taxable Build America Bonds (BABs) and Clean Renewable Energy Bonds (CREBS) as an option for municipal issuers. These bonds were intended to aid the municipal market in attracting investors and to help issuers to offset the cost of financing by offering annual rebates subject to current sequestration rates. Originally these rebates were scheduled to run from 2013 through the 2021 fiscal year end.
- The District holds three CREBs series and one BABs series, 2010 L, 2010M, 2012M, and the 2015M, for a total of \$222.4M, the three CREBs being structured with balloon payments in January 1, 2027 (\$90.0M), 2032 (\$42.395M) and 2040 (\$90.0M). The District on average receives approximately \$10M a year between the four issuances, due to us July 1 and Jan 1st. In 2021 the \$10M in payments reduced The District's net cost of debt from 3.73% to 2.91%

Justification:

- The current potential sequestration of direct-pay bonds (CREBs, BABs) stems from a federal budgetary rule known as the Pay as You Go Act (PAYGO), which requires that any legislation that results in mandatory spending and revenue increases must not increase the federal budget deficit over a specified period of time. The current PAYGO requirement stems from the 2021 American Rescue Plan Act (ARPA) which was enacted without any defined offsets. As a result, the Office of Management and Budget is required to implement sequestration for certain types of mandatory federal spending, which includes direct pay bonds including CREBs and BABs.

- “Sequestration” refers to automatic spending cuts that occur through the withdrawal of funding for certain (but not all) government programs as part of the Congressional Budget Office process. Funding can be reinstated as part of the Congressional Reconciliation process, PAYGO can be waived for individual spending bills and legislation with a majority in the House and 60 Senators. There are notable instances of PAYGO being waived by both political parties including legislative responses to the post COVID Recession and the 2017 Tax Cut and Jobs act. If PAYGO is not waived, there would be notable automatic cuts to other discretionary programs such as “Customs and Border”, “Farm Support”, and even programs bundled under “Medicare”.
- Congressional action was taken in 2021 to prevent PAYGO from applying to ARPA in 2022, however, a permanent fix was not put into place at that time. The Public Finance Network, which includes American Public Power Association (APPA) and the Large Public Power Council (LPPC), has sent a letter to the House and Senate budget committees advising them that inaction on the issue would result in the elimination of \$14 billion in payments to state and local entities nationwide.
- Grant has not received any concrete information regarding the timing surrounding the future termination of the CREBs rebates, although market participants speculate that the rebates could be eliminated as soon as 2023 if Congress doesn’t act by the end of the year to enact a PAYGO waiver regarding this situation.
- According to the most recent June 2022 American Public Power Association brief, Congress clearly did not intend for BAB credit payments to be subject to sequestration. There have been bills offered up by both parties which protected rebates in 2022. The APPA suggests there is current lobbying to extend the current BAB/CREB programs as they were originally or replace them with new federal programs which allow issuers to place new taxable direct payment bonds not subject to future sequestration.
- One of our financial partners, Stifel & Co, suggest that since CREBs are part of current PAYGO discussions in Congress, a current fix would be to offer a combination of future tax hikes somewhere in the budget to offer the needed trade-off in order to reinstate the 380 billion across the board funding for large parts of The American Rescue Plan among other legislation subject to elimination in 2023. Stifel suggests Congress may also just suspend PAYGO rules for a year in order to give it time to work out a budgetary solution. (This was accomplished in 2021 to protect Medicare programs). If PAYGO is triggered for 2023 it would be politically damaging as this issue is not specific to bond subsidies. Many higher profile government programs are caught in the same trap.
- The Grant Treasury Team constantly collects commentary and market opinion from our financial partners and market participants in an effort to properly plan for the federal rebates to either continue at some future sequestration rate or be discontinued by the federal government. To date there has been no concrete information or legislation that suggests the rebate program will be extended into 2023 or terminate in 2022.

Financial Considerations:

- The immediate impact would be a drop in available funds due to the rebate program being terminated. Should the program be completely terminated there would be potential rate savings to be gained by refunding our higher coupon CREBs issues with new issue debt. Grant

PUD would need to research the ability to refund these issues based up the suspension or termination of the rebate.

- There is not currently anything that requires Commission approval or direction regarding our participation in the CREBs federal rebate programs. Treasury wanted the Commission to be aware of the issue since it is financially significant to the district, and Grant PUD is not singularly affected by the outcome of discussions in Congress. In the event that the subsidies are completely eliminated, there are other IRS programs and refunds for the District to pursue.
- 2021 Rebate Payments were roughly \$10 million.

Recommendation: There is not any action that currently needs to be approved. This memo is to share current information regarding the status of Federal Rebates and Subsidies. As additional information can be attained Treasury will update the Commission on the status of these Federal Programs in addition to potential remedies for future interest cost reductions on our outstanding debt issues.

New Contract Requests - July 2022

Grant Contract Number	Counterparty	Contract Title	Estimated Contract Value	Date Submitted To Procurement	District Representative	Procurement Officer	Contract Record Type
170-11561	TBD	Supplying Steel Poles for the West Canal 230kV Tap and the Quincy Foothills 230kV Tap	\$ 1,100,000.00	7/5/2022	Randy Kono	Patrick Bishop	Material (Bid)
230-11560	WSP Canada Inc.	Priest Rapids Right Embankment Concrete Materials Testing	\$ 125,000.00	7/7/2022	Christopher Steinmetz	Kristin Fleisher	Professional Services
140-11573	Group14 Technologies, Inc.	Incremental Load Study Agreement	\$ -	7/12/2022	Leah Mauceri	Leah Mauceri	Customer Requests
430-HFA 602-69H	Methow Salmon Recovery Foundation	Sage Sugar Acquisition	\$ 57,969.70	7/13/2022	Dave Duvall	Cindy Inch	Habitat Agreements
140-11581	EDP Renewables North America LLC	Interconnection Study Agreement	\$ (12,000.00)	7/20/2022	Susan Manville	Leah Mauceri	Customer Requests
430-11562	TBD	Annual Renewal - Cisco Flex Licensing - 2022	\$ 60,838.42	7/22/2022	David Parkhurst	Nicona Butler	Services (Bid)
430-11587	Henley Leadership Group	Executive Development	\$ 100,000.00	7/24/2022	Richard Wallen	Cindy Inch	Professional Services
130-11556	Heffernan Consulting, Inc.	Irrigation Hardware Conservation Services	\$ 140,000.00	7/25/2022	Richard Cole	Lori Englehart-Jewell	Professional Services
430-11580	Oxarc, Inc.	Professional Nondestructive Examination Services	\$ 400,000.00	7/25/2022	Michael Fleurkens	Lori Englehart-Jewell	Professional Services
430-11582	TBD	Professional Services for Cultural Resources Support	\$ 450,000.00	7/28/2022	Matthew Johnson	Lori Englehart-Jewell	Professional Services
11583	TBD	Ephrata Headquarters & Hydro Office Annex Private Offices	\$ 150,000.00	7/29/2022	Tim Fleisher	Nicona Butler	Labor (Bid)

Contracts Executed - July 2022

Grant Contract Number	Counterparty	Contract Title	Awarded Contract Price	Contract Executed Date	Completion Date	District Representative	Procurement Officer
430-11380	MacKay and Sposito, Inc.	Construction Management and Construction Inspection Services	\$ 5,000,000.00	7/6/2022	12/31/2027	Dale Campbell	Lori Englehart-Jewell
170-11483	Doble Engineering Company	Doble 6150 Purchase	\$ 89,577.00	7/7/2022	7/21/2022	William Coe	Patrick Bishop
230-11494S	Nicholson Construction Company	Priest Rapids Spillway Lift Joint Drain Drilling	\$ 199,475.00	7/7/2022	9/30/2022	Logan Castle	Kristin Fleisher
130-11578	Gordon Tilden Thomas & Cordell LLP	Legal Services Related to Sentinel Shores v Grant PUD	\$ 50,000.00	7/11/2022		Mitchell Delabarre	Leah Mauceri
430-11479	Washington State Department of Fish and Wildlife	Nason Creek Acclimation Facility O&M	\$ 459,452.00	7/12/2022	6/30/2024	Eric Lauver	Cindy Inch
470-11547	Dell Marketing, Inc.	Tools Network Cluster	\$ 127,829.04	7/12/2022	9/15/2022	Matt Johnson	Nicona Butler
170-11526	Laminated Wood Systems, Inc.	Furnishing Laminated Wood Structures for the Big Bend Switchyard Project	\$ 221,829.00	7/15/2022	12/15/2022	Randy Kono	Patrick Bishop
430-11530	GrayMar Environmental Services Inc.	Emergency Response for Environmental Spills	\$ 300,000.00	7/25/2022	5/27/2024	Mark Woodward	Cindy Inch
230-11560	WSP Canada Inc.	Priest Rapids Right Embankment Concrete Materials Testing	\$ 125,000.00	7/27/2022	3/1/2024	Christopher Steinmetz	Kristin Fleisher
430-11381	Del Sol, Inc.	District Wide Janitorial	\$ 2,046,206.52	7/28/2022	6/30/2025	Lori Thorpe	Nicona Butler

Change Order Log - July 2022

Grant Contract Number	Change Order Number	Cost Change	Current Contract Value	Counterparty	Contract Title	Description of Change	Approval Level	Completion Date	Contract Executed Date	Procurement Officer
230-10893	3	\$ -	\$ 25,000.00	Suppression Systems, Inc.	Early Smoke Detection System for Priest Rapids Generators	Extend the Contract completion date.	3 - Department Manager	11/3/2022	7/6/2022	Lori Englehart-Jewell
130-11491	1	\$ (1,427.65)	\$ 26,173.80	420 Farms	420 Farms Lighting Upgrade	Decrease agreement price.	4 - Senior Manager/Plant Manager		7/11/2022	Lori Englehart-Jewell
130-11385	1	\$ 3,863.00	\$ 70,863.00	Stan's Construction and Son, LLC	Ephrata Service Center Stormwater Improvements	Increase the Contract Price and Extend the Contract Completion date. This CO was treated as an Emergency CO.	2 - Department Supervisor	8/31/2022	7/12/2022	Nicona Butler
430-4045	10	\$ 75,000.00	\$ 60,055,218.00	Voith Hydro, Inc.	Powerhouse Upgrade Field Work	Add language to Sections GC-10, GC-11 and GC-13, revise Section GC-18, add language to Section GC-20, revise Section SR-2 to add LD's, replace Section SR-9, revise Sections SR-13 and SR-24, remove Addendum No. 3 changes, Add CSR's to the Contract, and Increase the NTE Contract Price.	4 - Senior Manager/Plant Manager	12/31/2026	7/28/2022	Lori Englehart-Jewell
430-11044	1	\$ 361,408.15	\$ 525,883.12	Confederated Tribes and Bands of the Yakama Nation	White Sturgeon Juvenile Supplementation Program	Increase the Contract Price, replace Appendix "A" - Rate Schedule, and Extend the Contract Completion date.	5 - Managing Director	7/31/2024	7/28/2022	Cindy Inch

Contracts Closed - July 2022

Grant Contract Number	Counterparty	Contract Title	Current Contract Value	Closeout Date	District Representative	Procurement Officer
430-10069	NTERSOL	NTERSOL Professional Services	\$ 750,000.00	7/7/2022	Bobb Hansen	Kristin Fleisher
430-11067	Tommer Construction Co. Inc.	2021 District Roadway Maintenance and Replacement	\$ 536,562.40	7/19/2022	Nick Bare	Nicona Butler
430-09341	Nash Consulting, Inc.	Leadership Training and Development	\$ 370,000.00	7/20/2022	Thomas Stredwick	Guy Wanner
130-11491	420 Farms	420 Farms Lighting Upgrade	\$ 26,173.80	7/21/2022	Eric Hector	Lori Englehart-Jewell

Contract Completion Report - July 2022

Grant Contract Number	Contract Status	Counterparty	Contract Title	Current Contract Value	Completion Date	District Representative	Procurement Officer
130-06945H	In Close Out	Summit Line Construction, Inc.	Labor to Construct the Rocky Ford - Dover 115kV Line and the Quincy Plains 230kV Tap	3,993,284.67	12/22/2017	Randy Kono	Patrick Bishop
430-4029	In Close Out	Del Sol, Inc.	District Wide Janitorial Services	1,560,017.75	2/15/2019	Lori Thorpe	Nicona Butler
130-07810SR	In Close Out	Dan Booth Electric	Meter Base Repairs and Replacements	131,750.00	9/30/2019	Annette Lovitt	Patrick Bishop
130-4026	In Close Out	Anixter, Inc.	Supply and Install an Advanced Metering Infrastructure (AMI)	14,562,291.69	12/31/2019	Annette Lovitt	Patrick Bishop
130-10011	In Close Out	Basin Refrigeration and Heating, Inc	Ephrata Headquarters Cooling Tower Replacement	252,291.00	5/15/2020	Mike Harr	Nicona Butler
430-4052A	In Close Out	Aecom Technical Services, Inc.	Consultant for Embankment Seismic Stability and Seepage	100,000.00	6/23/2020	David Mishalanie	SVC_OneDriveMig
330-4018R	In Close Out	Knight Construction and Supply, Inc.	Wanapum Dam Spillway Gate Painting and Trunnion Rehabilitation	16,669,743.37	7/15/2020	David Dempsey	Guy Wanner
170-08926R	In Close Out	Central Moloney, Inc.	Supplying Single Phase Padmounted Distribution Transformers	900,880.00	12/31/2020	Rudy Perez	Patrick Bishop
430-09684	In Close Out	Contract Resource Group	Annual District Standard Furniture Supply and Install	850,503.58	12/31/2020	Mike Harr	Nicona Butler
170-09937	In Close Out	Stella-Jones Corporation	Supplying Western Red Cedar Distribution Poles in 2020/21	985,775.00	6/29/2021	Tom Schwiesow	Patrick Bishop
430-10413	In Close Out	AssetWorks, LLC	Professional Services Agreement for Fleet Asset Management System Implementation	101,538.50	8/31/2021	Brian Barrows	Nicona Butler
170-10874	In Close Out	Consolidated Electrical Distributors Inc. - Moses Lake	Supplying Schedule 40 Two Inch Orange Fiber Optic Conduit	295,680.00	9/2/2021	Tom Schwiesow	Patrick Bishop
170-10828	In Close Out	General Pacific, Inc.	Supplying Fiber Optic Cable in 2021	755,325.09	11/15/2021	Jeremy Conner	Patrick Bishop
470-10869	In Close Out	Columbia Ford Lincoln Hyundai/Bud Clary	Purchase of Four Ford F350 Crew Cab Pickups	172,728.00	11/30/2021	Brian Barrows	Nicona Butler
470-10856	In Close Out	Altec Industries	Purchase of Three ALTEC AT40G-3 Custom Line Trucks		12/15/2021	Brian Barrows	Nicona Butler
330-2251	In Close Out	GE Steam Power, Inc.	Generator Upgrade of Ten Units for Wanapum Dam	154,262,318.36	12/31/2021	Jeff Niehenke	Lori Englehart-Jewell
130-4051D	In Close Out	MacKay and Sposito, Inc.	Professional Engineering Services through 2021	2,000,000.00	12/31/2021	Randy Kono	Patrick Bishop
130-4051C	In Close Out	Stanley Consultants, Inc.	Professional Engineering Services through 2021	3,000,000.00	12/31/2021	Randy Kono	Patrick Bishop
430-08384	In Close Out	Central Washington Management Group LLC	Operational Management and Maintenance of the Crescent Bar Recreation Area	3,970,000.00	12/31/2021	Jerri Mickle	Cindy Inch
430-08903SR	In Close Out	TK Elevator Corporation	Routine Inspection, Maintenance, Repair of Elevator Systems	143,646.64	12/31/2021	Richard Faber	Rebecca Diaz
130-09283	In Close Out	Energy West, LLC	2019 Wholesale Marketing and Supply Strategies	495,000.00	12/31/2021	Rich Flanigan	Nicona Butler
130-09625	In Close Out	Basin Tree and Pest Service	Tree Trimming and Removal Services from February 2020 to December 2021	1,711,610.28	12/31/2021	William Coe	Patrick Bishop
430-09778	In Close Out	KARE Solutions LLC	Operations and Maintenance of the Crescent Bar Water and Wastewater Systems	325,000.00	12/31/2021	Jerri Mickle	Nicona Butler
470-10887	In Close Out	Altec Industries	PURCHASE OF ALTEC BOOM TRUCK	284,139.00	12/31/2021	Brian Barrows	Nicona Butler
430-HFA 602-66H	In Close Out	Okanagan Nation Alliance	Shingle Creek Fish Passage	11,800.77	12/31/2021	Dave Duvall	Cindy Inch

Contract Completion Report - July 2022

Grant Contract Number	Contract Status	Counterparty	Contract Title	Current Contract Value	Completion Date	District Representative	Procurement Officer
170-11184	In Close Out	Consolidated Electrical Distributors Inc. - Moses Lake	Supplying Schedule 40 One Inch & Two Inch Orange Fiber Optic Conduit	992,960.00	1/31/2022	Kyle Robillard	Patrick Bishop
470-10857	In Close Out	Coleman Oil Co. LLC	Supply Fuel for District Facilities and Crescent Bar Recreation 2021	850,000.00	2/7/2022	Brian Barrows	Nicona Butler
430-10067	In Close Out	Confederated Tribes of the Colville Reservation	Steelhead Monitoring and Evaluation 2020-2022	981,348.00	2/28/2022	Dave Duvall	Cindy Inch
430-10232	In Close Out	McKinstry Essention/Washington State Department of Enterprise Services	District Facilities Energy Improvements	976,872.00	2/28/2022	Maria Wren	Nicona Butler
430-10756	In Close Out	McKinstry Essention/Washington State Department of Enterprise Services	District Facilities Energy Improvements - Ephrata Headquarters Remodel	230,654.00	2/28/2022	Maria Wren	Nicona Butler
160-08334	In Close Out	Neutron LLC	Not Tracked - Advanced Transport Services Neutron LLC		3/15/2022	Terry Mckenzie	Bri Saunders
230-11179	In Close Out	Whitebird, Inc.	Priest Rapids Maintenance Center Warehouse Repairs	136,794.00	3/17/2022	Tim Fleisher	Nicona Butler
130-11057R-2	In Close Out	J.M. Pacific Construction, Inc.	Ephrata Headquarters Pedestrian Crosswalk Replacement	120,507.20	3/18/2022	Nick Bare	Nicona Butler
130-4051B	In Close Out	POWER Engineers, Inc.	Professional Engineering Services through 2021	7,200,000.00	3/31/2022	Randy Kono	Patrick Bishop
130-09331HR	In Close Out	Potelco, Inc.	Dock Crew 2019-2021	16,628,039.00	3/31/2022	William Coe	Patrick Bishop
170-11022	In Close Out	Anixter, Inc.	Supplying 115kV Post Insulators	161,915.50	4/4/2022	Derek Mashburn	Patrick Bishop
130-11168	In Close Out	Phaidon International	Recruiting services for System Protection Engineer I-V	120,000.00	4/19/2022	Richard Maguire	Patrick Bishop
430-11015	In Close Out	Ednetics, Inc.	Cisco Annual SmartNet Renewal	96,593.75	5/31/2022	Ken Moseley	Nicona Butler
430-3988	In Close Out	Confederated Tribes and Bands of the Yakama Nation	White River Juvenile Monitoring	579,335.98	6/1/2022	Rolland O'Connor	Cindy Inch
430-3989	In Close Out	Confederated Tribes and Bands of the Yakama Nation	Juvenile Monitoring in Nason Creek	482,088.54	6/1/2022	Rolland O'Connor	Cindy Inch
170-11135	In Close Out	G&W Electric Company	Supplying Reclosers & Controls	339,140.00	6/9/2022	Kyle Robillard	Patrick Bishop
130-4051A	In Close Out	HDR Engineering, Inc.	Professional Engineering Services through 2021	9,970,000.00	6/30/2022	Randy Kono	Patrick Bishop
430-3835	In Close Out	Washington State Department of Fish and Wildlife	Nason Creek Acclimation Facility Operations and Maintenance	1,603,684.53	6/30/2022	Eric Lauver	Cindy Inch
430-4257	In Close Out	Biomark, LLC.	Fish Marking Services	419,012.10	6/30/2022	Rolland O'Connor	Cindy Inch
430-06830	In Close Out	KJ's Lawn Care and Maintenance	District Wide Grounds Maintenance	650,250.00	6/30/2022	Lori Thorpe	Nicona Butler
140-3424	In Close Out	Avista Corporation	Interconnection Agreement		6/30/2022	Casey Sprouse	Nicona Butler
330-10364	In Close Out	Bridge Diagnostics, Inc.	Wanapum Dam Spillway Gates Strain Gaging (Gates 2,3,4,9,10,11,12)	615,900.28	6/30/2022	Jennifer Bell	Rebecca Diaz

Contract Completion Report - July 2022

Grant Contract Number	Contract Status	Counterparty	Contract Title	Current Contract Value	Completion Date	District Representative	Procurement Officer
130-10781	In Close Out	Power Systems Consultants, Inc.	Professional Services Agreement for EMS Support	153,005.00	6/30/2022	Kevin Carley	Nicona Butler
430-11048	In Close Out	CompuNet, Inc.	Cisco Flex Licensing	87,412.00	6/30/2022	Ken Moseley	Nicona Butler
170-11483	In Close Out	Doble Engineering Company	Doble 6150 Purchase	89,577.00	7/21/2022	William Coe	Patrick Bishop
430-11428	In Close Out	Blue Leaf Environmental, Inc.	2022 White Sturgeon Broodstock Activities	66,304.36	7/29/2022	Mike Clement	Cindy Inch
430-09039	Open	MacKay and Sposito, Inc.	Feasibility and Master Planning Services	837,264.00	7/31/2022	Tim Fleisher	Nicona Butler
430-10648	Open	Gannett Fleming, Inc.	Security Risk Assessment	431,250.00	7/31/2022	Fallon Long	Guy Wanner
130-3701	Open	CenturyLink	Backup Internet Connection To Moses Lake Control Center	324,920.00	8/8/2022	David Parkhurst	Kristin Fleisher
130-07485	Open	City of Grand Coulee, Washington	ILA for District Payment Station at City of Grand Coulee	122,000.00	8/9/2022	Taffy Courteau	Lori Englehart-Jewell
140-11116	Open	Moore & Van Allen PLLC	Non-Disclosure Agreement		8/10/2022	Shane Lunderville	Leah Mauceri
170-11231	Open	Consolidated Electrical Distributors Inc. - Moses Lake	Supplying 336 and 795 AAC Overhead Conductor	1,857,756.00	8/16/2022	Kyle Robillard	Patrick Bishop
430-09846	Open	NAVEX Global, Inc.	PolicyTech Subscription	53,674.18	8/20/2022	Jessie Allemand	Leah Mauceri
140-11309	Open	City of Quincy	Study Agreement	-29,021.75	8/20/2022	Randy Kono	Leah Mauceri
430-09804	Open	Clearwater Analytics, LLC	Investment Services Reporting	250,000.00	8/26/2022	Angelina Johnson	Rebecca Diaz
130-4064	Open	GE/Alstom Grid, LLC	Annual Energy Management System (EMS) License and Maintenance Renewal	1,568,753.00	8/31/2022	Kevin Carley	Nicona Butler
160-07738	Open	NoaNet	Not Tracked - Telecom Facilities License Agreement (Dark Fiber)		8/31/2022	Russ Brethower	Bri Saunders
430-08270	Open	Sprague Pest Control Specialists	District Wide Insecticide Spraying	319,899.84	8/31/2022	Lori Thorpe	Nicona Butler
130-09956	Open	Avineon, Inc.	Data Migration Implementation Services for GIS System	594,000.00	8/31/2022	Ken Smith	Kristin Fleisher
170-10397	Open	Graybar Electric Company, Inc.	Supplying Allied Telesis Multiservice Gateway Electronics for Fiber Termination	2,999,997.00	8/31/2022	Troy Holt	Patrick Bishop
140-11200	Open	Bit Capital Group, LLC	Large Power Facilities Agreement	-489,856.00	8/31/2022	Shane Lunderville	Leah Mauceri
130-11385	Open	Stan's Construction and Son, LLC	Ephrata Service Center Stormwater Improvements	70,863.00	8/31/2022	Nick Bare	Nicona Butler
470-11429	Open	Maxim Crane Works, L.P.	Purchase of Tracked Crane	1,117,867.00	8/31/2022	Brian Barrows	Nicona Butler
130-11473	Open	Stan's Construction and Son, LLC	MLSC Dispatch Stairs & Loading Dock Improvements	87,300.00	9/1/2022	Maria Wren	Nicona Butler
330-11026	Open	Krueger Sheet Metal Company	WMC - Archaeology Office Building (AOB) Reroof	222,362.50	9/15/2022	Maria Wren	Nicona Butler
430-11417	Open	Ascend Analytics LLC	Integrated Resource Plan Consulting Support	174,500.00	9/15/2022	Lisa Stites	Nicona Butler
470-11547	Open	Dell Marketing, Inc.	Tools Network Cluster	127,829.04	9/15/2022	Matt Johnson	Nicona Butler
430-06804	Open	AVANTech, Inc.	Professional Staff Augmentation Services	3,316,000.00	9/30/2022	Lori Davis	Rebecca Diaz
130-07621	Open	Bonneville Power Administration	Not Tracked - Energy Conservation Agreement	0.00	9/30/2022	Richard Cole	Bri Saunders
140-09609	Open	C1-Quincy LLC	Large Power Facilities Agreement	-6,719,000.00	9/30/2022	Shane Lunderville	Leah Mauceri

Contract Completion Report - July 2022

Grant Contract Number	Contract Status	Counterparty	Contract Title	Current Contract Value	Completion Date	District Representative	Procurement Officer
430-11076	Open	World Wide Technology, LLC	Data Center Network Modernization	56,350.00	9/30/2022	Kendall Zaugg	Kristin Fleisher
130-11077	Open	Contract Resource Group	2022 District Furniture Supply and Install	189,550.00	9/30/2022	Mike Harr	Nicona Butler
230-11494S	Open	Nicholson Construction Company	Priest Rapids Spillway Lift Joint Drain Drilling	199,475.00	9/30/2022	Logan Castle	Kristin Fleisher
430-4035	Open	Tait North America, Inc.	Mobile Radio Support Agreement	533,281.66	10/31/2022	Ken Moseley	Kristin Fleisher
130-08894	Open	North Central Educational School District 171	Electrical Safety Classroom Instruction	142,329.64	10/31/2022	Chuck Allen	Cindy Inch
430-11145	Open	Gartner, Inc.	Gartner Advisory Services - 2021 Renewal	57,463.00	10/31/2022	Derin Bluhm	Nicona Butler
430-11281	Open	ElecTrain LLC	PP LOTO Project Support	90,000.00	10/31/2022	Aaron Kuntz	Guy Wanner
430-HFA 601-39H	Open	Quincy Valley Chamber of Commerce - Quincy Valley Tourism Association	Northern Pikeminnow Fishing Derby 2022	25,000.00	10/31/2022	Tom Dresser	Cindy Inch
160-4306	Open	Level 3 Communications, LLC.	Not Tracked - Telecom Facilities License Agreement (Dark Fiber)		11/2/2022	Terry Mckenzie	Bri Saunders
160-4305	Open	Level 3 Communications, LLC.	Not Tracked - Telecom Facilities License Agreement (Dark Fiber)		11/2/2022	Terry Mckenzie	Bri Saunders
230-10893	Open	Suppression Systems, Inc.	Early Smoke Detection System for Priest Rapids Generators	25,000.00	11/3/2022	Brett Bazaldua	Lori Englehart-Jewell
430-09950	Open	Arch Staffing and Consulting	Arch Staffing and Consulting	6,000,000.00	11/15/2022	Julie Pyper	Kristin Fleisher
430-10705	Open	Arch Staffing and Consulting	Arch Staffing and Consulting for Enterprise Technology	1,725,000.00	11/15/2022	Charles Meyer	Kristin Fleisher
430-11188R	Open	Stan's Construction and Son, LLC	Saddle Mountain & Beezley Hill Radio Site Building Reroof - Rebid	133,700.00	11/18/2022	Tim Fleisher	Nicona Butler
130-10775	Open	Bloomberg Finance L.P.	Bloomberg Financial Services	54,000.00	11/24/2022	Mark Buchta	Rebecca Diaz

July 28, 2022

Mr. Jim Schroeder
PacifiCorp

Ms. Ruth Burris
Portland General Electric

Mr. Jonathan Hart
Eugene Water & Electric

Mr. Paul Downey / Mr. Keith Hormann
City of Forest Grove

Mr. Zac Yanez
Puget Sound Energy, Inc.

Mr. Matt Boast
Kittitas County PUD

Mr. Rick Applegate
Tacoma Power

Ms. Jaime Phillips
McMinnville Water & Light

Mr. Eric Espenhorst
City of Seattle, City Light Dept.

Mr. Mike Watkins
City of Milton-Freewater

Mr. Kevin Holland
Avista Corp.

Mr. Chris Velat
Cowlitz PUD

Subject: Priest Rapids Project Highlights for June

UNIT STATUS: Unit availability for the projects is as follows:

Wanapum Generator Operations/Turbine Restoration:

W-1, 2, 3, 4, 5, 6, 7, 8, 9, 10: Operational.

Priest Rapids Generator Operations/Turbine Restoration:

P-1, 2, 3, 5, 6, 7, 8, 9, 10: Operational.

P-04 was removed from service November 16, 2020, for turbine/generator rehabilitation and governor replacement. P-04 is scheduled to return to service August 5, 2022.

GENERATION STATUS REPORTS: June Generation Reports are attached for your information and use.

ELECTRIC SERVICE INTERRUPTION REPORTS: June Electric Service Interruption Reports are attached for your information and use.

Priest Rapids Project Highlights
July 28, 2022

The regular monthly meeting of the Grant County P.U.D. Power Purchasers' Advisory Committee will be held on Wednesday, September 21st at 10:00 a.m. via Webex.

The District representative is Phillip Law. Phillip's telephone number is: 509-754-5090.

Sincerely,

Dale Campbell

Dale Campbell, P.E.
Senior Manager of Power Production Engineering

DC:cec

Attachments

C:	HED Main Files 1.1.1.2	Dale Campbell
	Tom Flint	Phillip Law
	Larry Schaapman	Bonnie Overfield
	Judy Wilson	Ty Ehrman
	Nelson Cox	Shane Lee
	Terry Pyle	Ben Pearson
	Chief Operator/Wanapum	Joseph Boitano
	Chief Operator/Priest Rapids	Rey Pulido

Wanapum

Public Utility District of Grant County, Ephrata, Washington MONTHLY REPORT OF POWER OPERATIONS

June 2022

Installed Capacity (A)	<u>1,120,000</u>	kW	Hours Plant Operated:	<u>720</u>	
Gross Generation (B)	<u>521,370,300</u>	kWH	Plant Use	<u>530,600</u>	kWH
Max. Hourly Generation (C)	<u>879,200</u>	kWH	Net Generation	<u>520,839,700</u>	kWH
Time of Max. Hourly Gen.	<u>06/03/2022 0100</u>		Water for Generation (D)	<u>7,929,280</u>	A.F.
Plant Factor	<u>64.65%</u>		Water Bypassed (E)	<u>7,129,120</u>	A.F.
Utilization Factor	<u>78.50%</u>		Water for Fish (F)	<u>119,100</u>	A.F.
Water Factor:	<u>52.24%</u>		Average Hydraulic Head:	<u>74.1</u>	Feet

UNIT SERVICE RECORD

Unit No	Monthly Gen. (mWH)	Hrs. Operation	Hrs Down For Maint.	Availability Factor (G)	Nature of Maintenance
W-1	36,106	467.38	0.00	1.00	
W-2	49,062	635.38	0.00	1.00	
W-3	52,807	684.17	0.00	1.00	
W-4	53,589	704.78	0.00	1.00	
W-5	53,945	712.58	0.00	1.00	
W-6	54,757	719.13	0.00	1.00	
W-7	55,114	720.00	0.00	1.00	
W-8	55,667	720.00	0.00	1.00	
W-9	55,095	719.73	0.25	1.00	Fault in the GCC Processor
W-10	55,229	720.00	0.00	1.00	

(G) Availability Factor =

$$\frac{\text{Hours in Month} - \text{Hours Down for Maint.}}{\text{Hours in Month}}$$

$$\text{Plant Factor} = \frac{\text{(B)} * 100}{\text{(A)} * \text{Hours in Month}}$$

$$\text{Utilization Factor} = \frac{\text{(C)}}{\text{(A)}} * 100$$

$$\text{Water Factor} = \frac{\text{(D)}}{\text{(D)} + \text{(E)} + \text{(F)}} * 100$$

Plant Service Interruptions

Plant: WANAPUM

June, 2022

Date	Time	Duration		Unit	Circuit Breaker Tripped	Relays Operated		Remarks
		Month	Total			Type	Cause	
06/01/2022	0932	0:15	0:15	W-9	W-932	TRIP	12	Fault in the GCC Processor

Relay Types: MAN - Manual OC - Overcurrent DIFF - Differential FREQ - Frequency GRD - Ground V - Voltage THER - Thermal TRIP - 86E Trip OTH - Other

Causes: 1 Lightning 2 All other weather 3 Trees, etc. into line 4 Malicious damage 5 Line down 6 Defective equipment 7 Inadequate system 8 Trouble on another system 9 Operation error 10 Relay error 12 Cause unknown 11 Prearranged outage 13 Computer control 14 Other

**WANAPUM POWERPLANT GENERATION SUMMARY
JUNE 2022**

UNIT	GENERATION (MWH)			MAINTENANCE HOURS	
	100% RATED INSTALLED CAPACITY	CURRENT	YTD	CURRENT	YTD
W-1	112.00	36,106	272,014		9.97
W-2	112.00	49,062	301,946		18.65
W-3	112.00	52,807	131,339		2,072.30
W-4	112.00	53,589	272,707		228.98
W-5	112.00	53,945	288,520		41.20
W-6	112.00	54,757	334,808		51.90
W-7	112.00	55,114	336,175		31.42
W-8	112.00	55,667	340,219		86.90
W-9	112.00	55,095	338,248	0.25 (A)	115.42
W-10	112.00	55,229	344,183		52.95
PROJECT TOTAL	1120.00	521,371	2,960,159	0.25	2,709.69
PLANT USE:		531	3,758		
NET GENERATION:		520,840	2,956,401		

PLANT RATING CURVE CAPACITY BASED ON 40 YR WATER

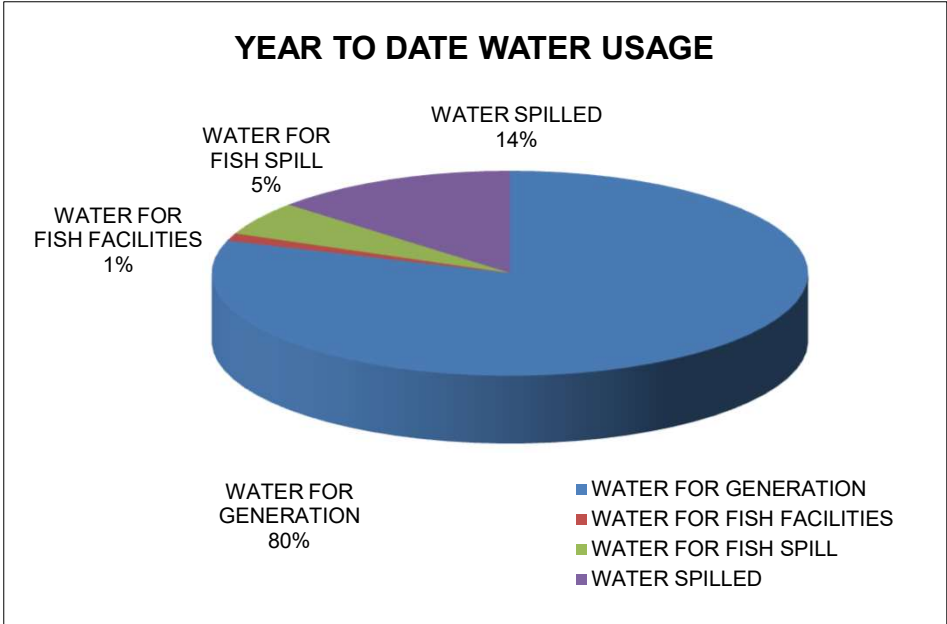
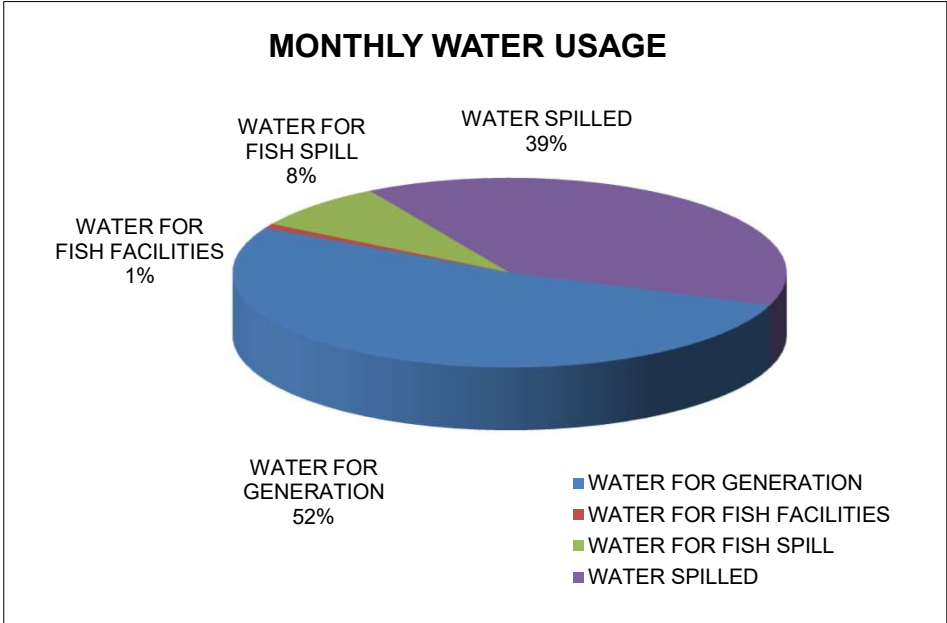
996,910

(A) Fault in the GCC processor

**WANAPUM POWERPLANT
WATER UTILIZATION
JUNE 2022**

	WATER UTILIZED (ACRE FEET)	EQUIVALENT ENERGY (MWH)
TOTAL RIVER FLOW	15,177,500	997,959
WATER FOR GENERATION	7,929,280	521,370
WATER FOR FISH FACILITIES	119,100	7,831
WATER FOR FISH SPILL	1,213,749	79,807
WATER SPILLED	5,915,371	388,951

Wanapum Water Utilization Report June 2022



Priest Rapids

Public Utility District of Grant County, Ephrata, Washington MONTHLY REPORT OF POWER OPERATIONS

June 2022

Installed Capacity (A)	950,000	kW	Hours Plant Operated:	720	
Gross Generation (B)	421,816,400	kWH	Plant Use	1,206,000	kWH
Max. Hourly Generation (C)	777,300	kWH	Net Generation	420,610,400	kWH
Time of Max. Hourly Gen.	06/01/2022 1800		Water for Generation (D)	7,017,690	A.F.
Plant Factor	61.67%		Water Bypassed (E)	8,691,560	A.F.
Utilization Factor	81.82%		Water for Fish (F)	101,120	A.F.
Water Factor:	44.39%		Average Hydraulic Head:	69.4	Feet

UNIT SERVICE RECORD

Unit No	Monthly Gen. (mWH)	Hrs. Operation	Hrs Down For Maint.	Availability Factor (G)	Nature of Maintenance
P-1	52,348	720.00	0.00	1.00	
P-2	51,128	720.00	0.00	1.00	
P-3	48,748	716.20	2.15	1.00	To Facilitate P-4 Sync Check Testing
P-4	1,208	0.00	720.00	0.00	Unit Upgrade
P-5	49,143	719.30	0.00	1.00	
P-6	48,954	717.27	0.00	1.00	
P-7	48,571	710.87	0.00	1.00	
P-8	47,711	671.72	0.00	1.00	
P-9	43,030	612.28	1.98	1.00	- Rolling Outage For VibroSystem Testing Dispatch Notified (K. Schwint)
P-10	30,975	451.87	0.00	1.00	

(G) Availability Factor =

$$\frac{\text{Hours in Month} - \text{Hours Down for Maint.}}{\text{Hours in Month}}$$

$$\text{Plant Factor} = \frac{(B) * 100}{(A) * \text{Hours in Month}}$$

$$\text{Utilization Factor} = \frac{(C)}{(A)} * 100$$

$$\text{Water Factor} = \frac{(D)}{(D) + (E) + (F)} * 100$$

Plant Service Interruptions

Plant: PRIEST
RAPIDS

June, 2022

Date	Time	Duration		Unit	Circuit Breaker Tripped	Relays Operated		Remarks
		Month	Total			Type	Cause	
06/01/2022	0000	720:00	14200:47	P-4	432	OTH	11	Unit Upgrade
06/15/2022	0907	1:59	1:59	P-9	932	MAN	11	- Rolling Outage For VibroSystem Testing Dispatch Notified (K. Schwint)
06/15/2022	1259	2:09	2:09	P-3	332	MAN	11	To Facilitate P-4 Sync Check Testing

Relay Types: MAN - Manual OC - Overcurrent DIFF - Differential FREQ - Frequency GRD - Ground V - Voltage THER - Thermal TRIP - 86E Trip OTH - Other

Causes: 1 Lightning 2 All other weather 3 Trees, etc. into line 4 Malicious damage 5 Line down 6 Defective equipment 7 Inadequate system 8 Trouble on another system 9 Operation error 10 Relay error 12 Cause unknown 11 Prearranged outage 13 Computer control 14 Other

**PRIEST RAPIDS POWERPLANT GENERATION SUMMARY
JUNE 2022**

UNIT	GENERATION (MWH)			MAINTENANCE HOURS	
	100% RATED INSTALLED CAPACITY	CURRENT	YTD	CURRENT	YTD
P-1	95.00	52,348	304,831		42.30
P-2	95.00	51,128	320,496		45.75
P-3	95.00	48,748	310,441	2.15 (A)	39.33
P-4	95.00	1,208	1,208	720.00 (B)	4,343.00
P-5	95.00	49,143	317,448		0.92
P-6	95.00	48,954	311,593		11.38
P-7	95.00	48,571	286,931		62.35
P-8	95.00	47,711	276,105		39.87
P-9	95.00	43,030	271,320	1.98 (C)	10.93
P-10	95.00	30,975	255,657		11.48
PROJECT TOTAL	950.00	421,816	2,656,030	724.13	4,607.31
PLANT USE:		1,206	5,992		
NET GENERATION:		420,610	2,650,039		

PLANT RATING CURVE CAPACITY BASED ON 40 YR WATER

912,300

- (A) To facilitate P-04 sync check testing
- (B) Turbine/generator rehabilitation
- (C) Rolling outage for VibroSystem testing

**PRIEST RAPIDS POWERPLANT
WATER UTILIZATION
JUNE 2022**

	WATER UTILIZED (ACRE FEET)	EQUIVALENT ENERGY (MWH)
TOTAL RIVER FLOW	15,810,370	950,323
WATER FOR GENERATION	7,017,690	421,816
WATER FOR FISH FACILITIES	101,120	6,078
WATER FOR FISH SPILL	1,778,264	106,887
WATER SPILLED	6,913,296	415,542

PRIEST RAPIDS WATER UTILIZATION REPORT JUNE 2022

