BEFORE THE WASHINGTON

UTILITIES & TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

AVISTA CORPORATION D/B/A/ AVISTA UTILITIES

Respondent.

DOCKETS UE-220053, UG-220054, and UE-210854 (Consolidated)

CROSS EXAMINATION EXHIBIT OF ELIZABETH M. ANDREWS
ON BEHALF OF THE
WASHINGTON STATE OFFICE OF THE ATTORNEY GENERAL
PUBLIC COUNSEL UNIT

EXHIBIT EMA-__X

Avista's Response to Public Counsel's Data Request No. 339 on Capital Additions with Attachments A & B

September 14, 2022

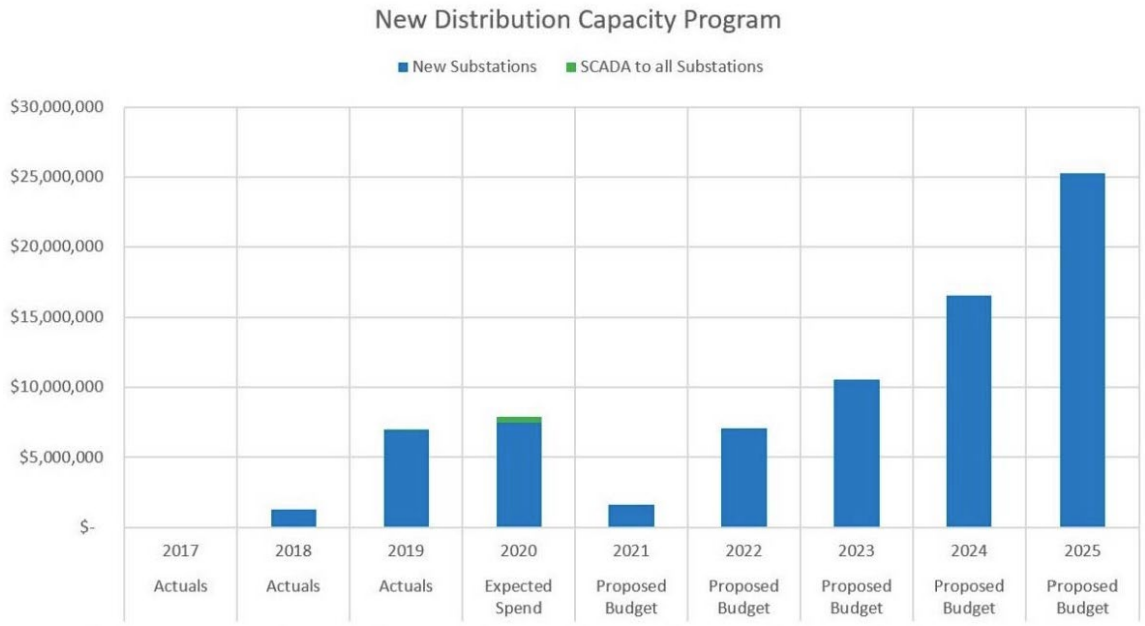
AVISTA CORP.
RESPONSE TO REQUEST FOR INFORMATION

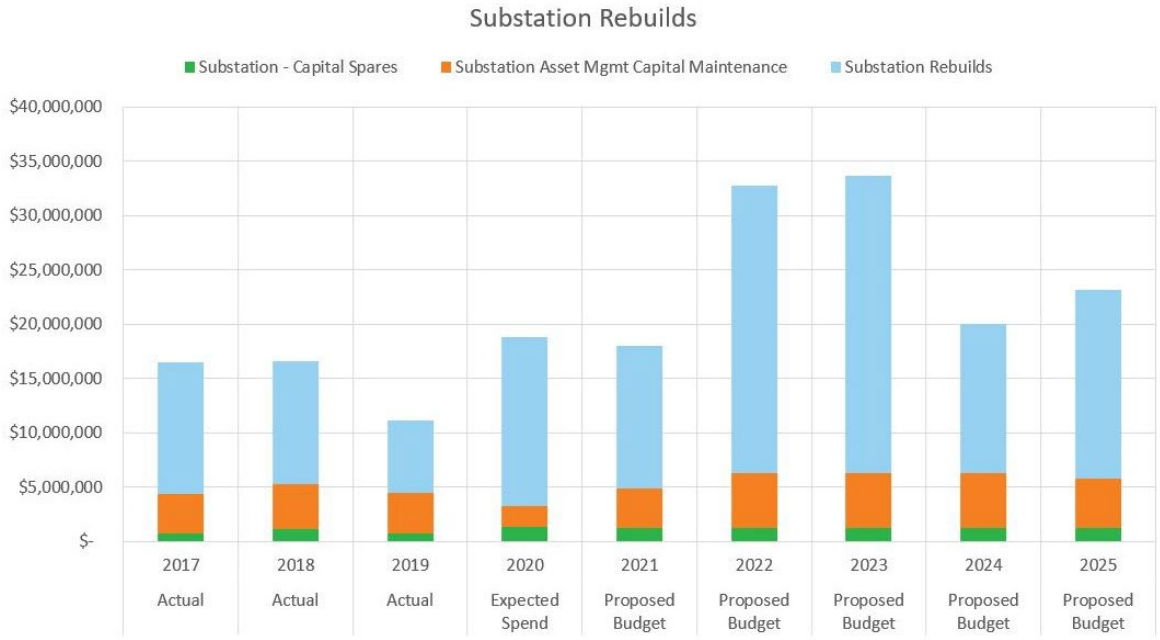
JURISDICTION:	WASHINGTON	DATE PREPARED:	09/07/2022
CASE NO.:	UE-220053 & UG-220054	WITNESS:	Elizabeth Andrews
REQUESTER:	Public Counsel	RESPONDER:	Liz Andrews
TYPE:	Data Request	DEPT:	Regulatory Affairs
REQUEST NO.:	PC – 339	TELEPHONE:	(509) 495-8601
		EMAIL:	liz.andrews@avistacorp.com

SUBJECT: RE: Capital additions

REQUEST:
Refer to Rebuttal Testimony of Elizabeth M. Andrews, Exh. EMA-7T at 55, Illustrations No. 1 and 2. Please provide a specific reference where the Company provided specific projects, quantities, and work activities with related dollar amounts supporting the increase in capital additions in 2022, 2023, and 2024.

RESPONSE:
Please see attached Business Cases for the "Substation - New Distribution Station Capacity Program" and "Substation – Station Rebuild Program" and excerpted from the Company's pre-filed testimony (Exh. HLR-2, pp. 168-181), set forth below (showing the annual spend):





(These tables show the annual spend, versus Illustrations No. 1 and 2 of Exh. EMA-7T at 55, showing how these spend dollars transfer-to-plant and are included in our direct filed case.)

Also see the Company's response to PC-DR-208 (also appearing as Exh. SC-21) which is attached hereto as PC-DR-339 Attachment B, pages 1-6. Attachment A, appended to PC-DR_208 (also attached as PC-DR-339 Attachment B, pages 4-6) provides information on transfers-to-plant (TTP) on a system basis by Business Case for the period 2018-2024. In subpart C of PC-DR_208, the Company invited Public Counsel to advise the Company if it wished to see more specific information among the list of Business Cases (134 Business Cases in total over the period 2021-2024) – and no request from Public Counsel was forthcoming. Also attached is a copy of Avista's response to PC-DR_212 (see PC-DR-339 Attachment B, pages 11-21), containing additional project information and again advising Public Counsel that, given the voluminous information requested on all 134 Business Cases, that, upon request, the Company would provide further segmentation of Business Cases by components, work plan, system requirement, etc. Public Counsel again did not avail itself of this opportunity to "inquire further" into specific projects, quantities, work activities and dollar amounts. (See PC-DR-212, subpart (h))

In any event, by the very nature of projects that won't be completed until 2023 and 2024, any uncertainty will be resolved once actual transfers-to-plant occur and made available for the review process which forms an integral part of the Rate Plan, whereby those capital projects are subject to review annually for the prior calendar year, for final prudence and verification of dollars spent and transferred, and a demonstration of used and useful investment.

ATTACHMENT A TO AVISTA'S RESPONSE TO PUBLIC COUNSEL

DATA REQUEST NO. 339

EXECUTIVE SUMMARY

*This section is reserved to provide a **brief** description of the business case and high level summary of the projects or programs included. Please limit to no more than 2 paragraphs. Components that should be included: 1) a synopsis of the problem, 2) the service code and jurisdiction of customers impacted, 3) the recommended solution, 4) the cost of the solution, 5) how the solution will benefit customers identified, 6) the significance of the timeline and 7) the risks of not approving this business case.*
<< Both the Executive Summary and Version History should fit into one page >>

New distribution substations added to the system for load growth and reliability are critical to the long term operation of the system. As load demands, increase and customer expectations rise regarding reliability, incremental distribution substation capacity is required. This allows for improved operational flexibility, better system reliability, and easier routine maintenance scheduling as equipment is more easily taken out of service because load can be transferred.

Capacity on the electric system to be able to take components out of service on a planned basis so that maintenance or replacements can be made has reduced as load demands have increased. Having the right amount of backup capacity in each area is critical for the continued appropriate management of the electric system. This business case is important because through it, customers can likely continue to receive electric service at a level that they have grown accustom to receiving.

Service: ED – Electric Direct

Jurisdiction: Various. Each rebuild project has its own Jurisdiction.

Engineering Roundtable Request Number: Various. Each rebuild project has its own ERT Request.

2020 Expected Spend: $7,600,000

VERSION HISTORY

Version	Author	Description	Date	Notes
1.0	Ken Sweigart	Initial Version	04/14/2017	Initial Version
2.0	Karen Kusel / Glenn Madden	Update to 2020 Template	06/30/2020	

GENERAL INFORMATION

Requested Spend Amount	$6,000,000 per year
Requested Spend Time Period	On Going
Requesting Organization/Department	T&D
Business Case Owner | Sponsor	Glenn Madden | Josh DiLuciano
Sponsor Organization/Department	T&D
Phase	Execution
Category	Program
Driver	Performance & Capacity

1 BUSINESS PROBLEM

[This section must provide the overall business case information conveying the benefit to the customer, what the project will do and current problem statement]

New distribution substations added to the system for load growth and reliability are critical to the long term operation of the system. As load demands, increase and customer expectations rise regarding reliability, incremental distribution substation capacity is required. This allows for improved operational flexibility, better system reliability, and easier routine maintenance scheduling as equipment is more easily taken out of service because load can be transferred.

1.1 What is the current or potential problem that is being addressed?

As load demands, increase and customer expectations rise regarding reliability, incremental distribution substation capacity is required.

1.2 Discuss the major drivers of the business case *(Customer Requested, Customer Service Quality & Reliability, Mandatory & Compliance, Performance & Capacity, Asset Condition, or Failed Plant & Operations)* and the benefits to the customer

Performance and Capacity – Increasing load on an aging electrical system. And the better the asset condition, the fewer equipment failures and possible customer outages there are.

1.3 Identify why this work is needed now and what risks there are if not approved or is deferred

This is a continuing effort to stay ahead of the curve to avoid reliability issues.

1.4 Identify any measures that can be used to determine whether the investment would successfully deliver on the objectives and address the need listed above.

System Planning Assessments and Studies.

1.5 Supplemental Information

1.5.1 Please reference and summarize any studies that support the problem

[List the location of any supplemental information; do not attach]

System Planning Assessments on System Planning Sharepoint site.

1.5.2 For asset replacement, include graphical or narrative representation of metrics associated with the current condition of the asset that is proposed for replacement.

Not Applicable.

2 PROPOSAL AND RECOMMENDED SOLUTION

[Describe the proposed solution to the business problem identified above and why this is the best and/or least cost alternative (e.g., cost benefit analysis, attach as supporting documentation)]

This program adds new distribution substations to the system in order to serve new and growing load as well as for increased system reliability and operational flexibility. New substations under this program will require planning and operational studies, justifications, and approved Project Diagrams prior to funding.

Alternatives considered include:

Do Nothing: Maintain (to the best of our ability) all obsolete or end-of-life apparatus. Repair or replace equipment on emergency basis only. Some repairs would not be possible due to obsolescence. Considerably more, and longer, customer outages would result. Although there is zero Capital cost connected with keeping the status quo there are some associated O&M and other system sustainment costs.

Extension of distribution feeders from neighboring substations and increased capacity at those substations would be required at a minimum. The negative impact is most certainly reduced reliability and difficulty in long term maintenance and system operation. Increased liability would result.

Solution: Anticipated load growth requires the addition of two new substations per year over the 2017-2026 horizon

Option	Capital Cost	Start	Complete
Recommended Solution	$6M	Annually	Annually
Alternative #1: Do Nothing	$0		
Extend Existing Distribution Feeders			

2.1 Describe what metrics, data, analysis or information was considered when preparing this capital request.

Examples include:
- Samples of savings, benefits or risk avoidance estimates
- Description of how benefits to customers are being measured
- Comparison of cost ($) to benefit (value)
- Evidence of spend amount to anticipated return

Reference key points from external documentation, list any addendums, attachments etc.

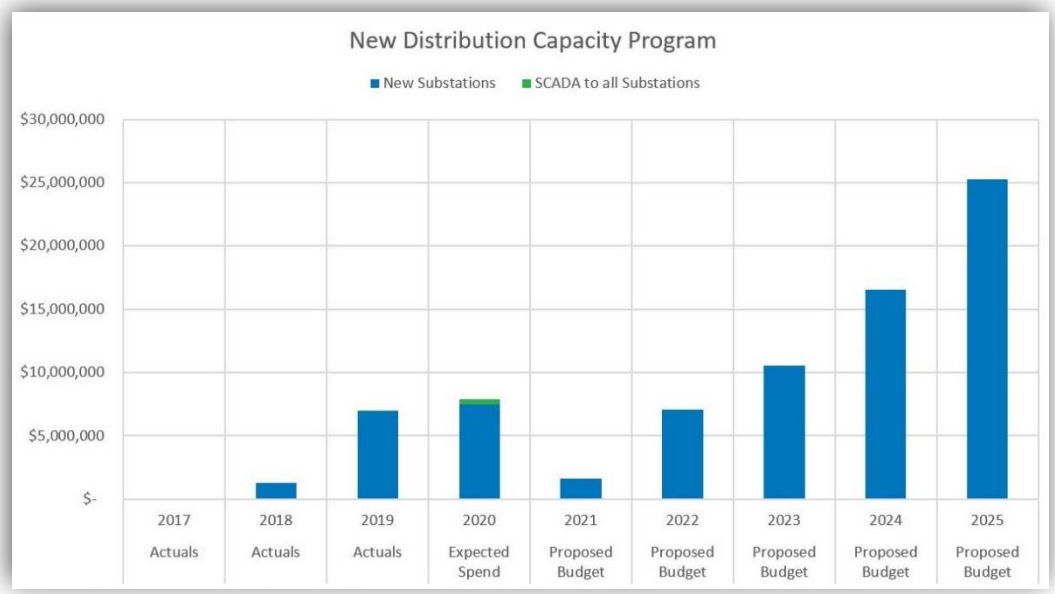
System Planning Assessments.

2.2 Discuss how the requested capital cost amount will be spent in the current year (or future years if a multi-year or ongoing initiative). (i.e. what are the expected functions, processes or deliverables that will result from the capital spend?). Include any known or estimated reductions to O&M as a result of this investment.

How will the outcome of this investment result in potential additional O&M costs, employee or staffing reductions to O&M (offsets), etc.?

[Offsets to projects will be more strongly scrutinized in general rate cases going forward *(ref. WUTC Docket No. U-190531 Policy Statement)*, therefore it is critical that these impacts are thought through in order to support rate recovery.]

Below is a graph showing previous years actual spend on this Business Case, the Expected Spend for 2020 and budget requests for the future.



O&M will increase due to the addition of electric substation and associated transmission and distribution lines. This will include inspections and maintenance of equipment.

2.3 Outline any business functions and processes that may be impacted (and how) by the business case for it to be successfully implemented.

[For example, how will the outcome of this business case impact other parts of the business?]

System Operations will have improved functionality of the electric system.

2.4 Discuss the alternatives that were considered and any tangible risks and mitigation strategies for each alternative.

Status Quo – Obsolete equipment drives up maintenance costs and outage risks. Extending Distribution Feeders – higher risk of load issues and customer outages.

2.5 Include a timeline of when this work will be started and completed. Describe when the investments become used and useful to the customer. spend, and transfers to plant by year.

[Describe if it is a program or project and details about how often in a year, it becomes used-and-useful. (i.e. if transfer to plant occurs monthly, quarterly or upon project completion).]

See graph above, Section 2.2. Transfers to plant will occur when a substation is in-service or energized. Adhering to project timelines will save capital carrying costs.

2.6 Discuss how the proposed investment aligns with strategic vision, goals, objectives and mission statement of the organization.

[If this is a program or compilation of discrete projects, explain the importance of the body of work.]

Mission: We improve our customers' lives through innovative energy solutions.

Vision: Better energy for life

These projects will help Avista stay ahead of the curve of load growth and equipment age to prevent customer outages.

2.7 Include why the requested amount above is considered a prudent investment, providing or attaching any supporting documentation. In addition, please explain how the investment prudency will be reviewed and re-evaluated throughout the project

Failure to adjust to load changes and customer needs will lead to equipment failures, customer outages and expensive emergency projects.

2.8 Supplemental Information

2.8.1 Identify customers and stakeholders that interface with the business case

Electrical Engineering, Generation Production/Substation Support, Transmission Operations and System Planning and Operations

2.8.2 Identify any related Business Cases

[Including any business cases that may have been replaced by this business case]

Not Applicable.

3 MONITOR AND CONTROL

3.1 Steering Committee or Advisory Group Information

[Please identify and describe the steering committee or advisory group for initial and ongoing vetting, as a part of your departmental prioritization process.]

- Glenn Madden - Manager, Substation Engineering
- Project Engineer/Project Manager (PE/PM) – Various

The assigned PE/PM holds stakeholder meetings to develop/confirm scope, schedule and costs. Also meets at time of pre-construction. Other meetings held as necessary.

The Engineering Roundtable manages the prioritization of projects within this business case as supported by Asset Management studies and input from company subject matter experts. The Engineering Roundtable is comprised of representatives from the following departments: Asset Management, Compliance, System Planning, System Operations,

Telecommunications, Transmission Contracts, Protection Engineering, Substation Engineering, Transmission Engineering, and Substation Support.

3.2 Provide and discuss the governance processes and people that will provide oversight

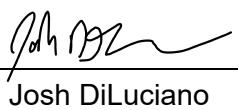
Engineering Roundtable meets several times a year to analyze current and future projects.

3.3 How will decision-making, prioritization, and change requests be documented and monitored

Project folders are saved to Engineering shared drives and Businesss Case Funds Requests are available on the Finance sharepoint site

4 APPROVAL AND AUTHORIZATION

The undersigned acknowledge they have reviewed the Substation – New Distribution Station Capacity Program and agree with the approach it presents. Significant changes to this will be coordinated with and approved by the undersigned or their designated representatives.

Signature:		Date:	12-23-2020
Print Name:	Glenn Madden		
Title:	Manager, Substation Engineering		
Role:	Business Case Owner		
Signature:		Date:	~~1/5/2020~~ 1/5/2021
Print Name:	Josh DiLuciano		
Title:	Director, Electrical Engineering		
Role:	Business Case Sponsor		
Signature:	Damon Fisher	Date:	1/5/2021
Print Name:	Damon Fisher		
Title:	Principle Engineer		
Role:	Steering/Advisory Committee Review		

Substation – Station Rebuilds Program

EXECUTIVE SUMMARY

*This section is reserved to provide a **brief** description of the business case and high level summary of the projects or programs included. Please limit to no more than 2 paragraphs. Components that should be included: 1) a synopsis of the problem, 2) the service code and jurisdiction of customers impacted, 3) the recommended solution, 4) the cost of the solution, 5) how the solution will benefit customers identified, 6) the significance of the timeline and 7) the risks of not approving this business case.*
<< Both the Executive Summary and Version History should fit into one page >>

Replacing and upgrading major substation apparatus and equipment as it approaches end of life or becomes obsolete is necessary to maintain safe and reliable operation of Avista's transmission and distribution systems. Rebuilding significant portions of stations may be necessary to accommodate the replacement of failing or obsolete equipment since new standard-use apparatus and equipment is often of higher capacity and newer technology and may need to meet updated equipment spacing and operating standards.

Failure to replace old and obsolete equipment will increase the risk of more frequent and/or extended duration of outages due to major equipment failure and inability to maintain major apparatus. Substation outages may have significant consequences as they tend to impact a large number of customers. This Business Case is important for customers because it is critical toward Avista's ability to continue to provide the reliable electrical service that customers have grown accustom to receiving.

Service: ED – Electric Direct

Jurisdiction: Various. Each rebuild project has its own Jurisdiction.

Engineering Roundtable Request Number: Various. Each rebuild project has its own ERT Request.

2020 Expected Spend: $18,900,000

VERSION HISTORY

Version	Author	Description	Date	Notes
1.0	Ken Sweigart	Initial Version	4/14/2017	
2.0	Jeff Schlect	Consolodation of capital maintenance and major rebuild business cases	5/19/2017	
3.0	Karen Kusel / Glenn Madden	Update to 2020 Template	6/30/2020	

GENERAL INFORMATION

Requested Spend Amount	$20,000,000 per year
Requested Spend Time Period	On Going
Requesting Organization/Department	T&D – Substation Engineering
Business Case Owner | Sponsor	Glenn Madden | Josh DiLuciano
Sponsor Organization/Department	T&D
Phase	Execution
Category	Program
Driver	Asset Condition

1 BUSINESS PROBLEM

[This section must provide the overall business case information conveying the benefit to the customer, what the project will do and current problem statement]

Replacing and upgrading major substation apparatus and equipment as it approaches end of life or becomes obsolete is necessary to maintain safe and reliable operation of Avista's transmission and distribution systems. Rebuilding significant portions of stations may be necessary to accommodate the replacement of failing or obsolete equipment since new standard-use apparatus and equipment is often of higher capacity and newer technology and may need to meet updated equipment spacing and operating standards. While asset condition is the primary driver triggering the need to replace major apparatus and equipment, additional factors that may contribute to the need to broaden the scope of a station rebuild project include operational and maintenance requirements, updated design and construction standards, SCADA communications, future customer load-service needs, and other programs (e.g. Grid Modernization).

Major apparatus include high-voltage circuit breakers, lower voltage circuit breakers and reclosers, circuit switchers, capacitor banks, power transformers and step voltage regulators. Associated equipment includes relays, meters, surge arrestors, station rock and fencing, panel houses, instrument transformers, high voltage fuses, air switches, autotransformer diagnostic equipment, batteries and chargers, and panel houses.

Failure to replace old and obsolete equipment will increase the risk of more frequent and/or extended duration of outages due to major equipment failure and inability to maintain major apparatus. Substation outages may have significant consequences as they tend to impact a large number of customers.

1.1 What is the current or potential problem that is being addressed?

Aging apparatus and equipment plus changes in customer needs and compliance requirements.

1.2 Discuss the major drivers of the business case *(Customer Requested, Customer Service Quality & Reliability, Mandatory & Compliance, Performance & Capacity, Asset Condition, or Failed Plant & Operations)* and the benefits to the customer

The major driver of the business case is Asset Condition. Good asset condition leads to fewer customer outages.

1.3 Identify why this work is needed now and what risks there are if not approved or is deferred

This is an on-going program to stay ahead of the curve of asset age and condition.

1.4 Identify any measures that can be used to determine whether the investment would successfully deliver on the objectives and address the need listed above.

General age of all major substation equipment.

System Planning Assessments.

1.5 Supplemental Information

1.5.1 Please reference and summarize any studies that support the problem

[List the location of any supplemental information; do not attach]

System Planning Assessments, Maximo Work Orders.

1.5.2 For asset replacement, include graphical or narrative representation of metrics associated with the current condition of the asset that is proposed for replacement.

As of July 2020, here are samples of data we use to view asset information used to determine viable options for substation rebuilds.

Equipment Type	Average Manuf Year
Air Switch	2005
Breaker Recloser	2000
Circuit Switcher	1991
HV Circuit Breaker	1996
Power Transformer	1986
Switchgear Breaker	1985
Voltage Regulator	2002

Equipment Type	Oldest Mfg Yr and Substation
Air Switch	1930 - Leon Jct
Breaker Recloser	1924 - South Lewiston
Circuit Switcher	1968 - Osburn
HV Circuit Breaker	1952 - Sunset
Power Transformer	1946 - Garfield
Switchgear Breaker	1963 - Chester
Voltage Regulator	1960 - Bunker Hill

Location	Avg Age of Major Equipment
Coeur Shaft Mine 13kV	1961
Chester 115kV	1974
Rockford 115kV	1975
Post Falls 115kV	1977
Dry Gulch 115kV	1978
Wallace 115kV	1979
Metro 115kV	1979
South Lewiston 115kV	1980
Roxboro 115kV	1981
Leon Jct. 115kV	1981

2 PROPOSAL AND RECOMMENDED SOLUTION

[Describe the proposed solution to the business problem identified above and why this is the best and/or least cost alternative (e.g., cost benefit analysis, attach as supporting documentation)]

The recommended approach is to replace station apparatus and equipment as needed due to asset condition and consider broader station rebuilds when the majority of assets in the impacted area of a station have been determined to have reached their end of life.

This business case aligns with the Company's mission to deliver safe and reliable electric service to customers by preventing the degradation of reliability and mitigating the frequency and duration of outages due to equipment failure.

Option 1: Do nothing - Not recommended

Option 2: Maintain current funding level - Current spending on the Asset Condition risk category is $12.85 million annually. Project prioritization will be supported by Asset Management and substation subject matter experts for prioritization of work within this risk category. Project and funding levels will be reviewed on an annual basis.

Option 3: Reduce current Asset Condition capital improvements. Not recommended. May lead to a reduction in the level of reliability and or operating flexibility that can be achieved by the transmission and distribution systems.

Option	Capital Cost	Start	Complete
Maintain present level of Station Rebuilds	$20M	On Going	On Going
Alternate 1: Do nothing	$0M		
Alternate 2: Maintain minimum level of Station Rebuilds	$0-12M	-	

2.1 Describe what metrics, data, analysis or information was considered when preparing this capital request.

Examples include:
- Samples of savings, benefits or risk avoidance estimates
- Description of how benefits to customers are being measured
- Comparison of cost ($) to benefit (value)
- Evidence of spend amount to anticipated return
-

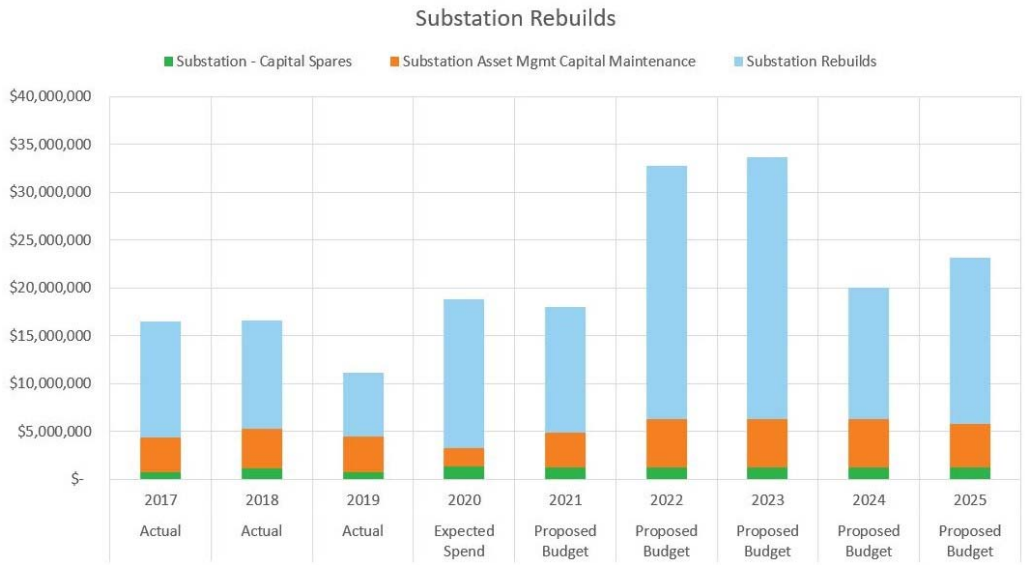
Reference key points from external documentation, list any addendums, attachments etc.
System Planning Assessments and Asset Management information.

2.2 Discuss how the requested capital cost amount will be spent in the current year (or future years if a multi-year or ongoing initiative). (i.e. what are the expected functions, processes or deliverables that will result from the capital spend?)**. Include any known or estimated reductions to O&M as a result of this investment.**

How will the outcome of this investment result in potential additional O&M costs, employee or staffing reductions to O&M (offsets), etc.?

[Offsets to projects will be more strongly scrutinized in general rate cases going forward *(ref. WUTC Docket No. U-190531 Policy Statement)*, therefore it is critical that these impacts are thought through in order to support rate recovery.]

Ongoing improvements to the BES via substation rebuilds will result in system reliability, fewer customer outages and smaller O&M costs.



2.3 Outline any business functions and processes that may be impacted (and how) by the business case for it to be successfully implemented.

[For example, how will the outcome of this business case impact other parts of the business?]

System Operations will have improved functionality of the electric system.

2.4 Discuss the alternatives that were considered and any tangible risks and mitigation strategies for each alternative.

Reduce the numbers of capital improvements or Doing Nothing causes equipment to age and become obsolete and difficult to maintain.

2.5 Include a timeline of when this work will be started and completed. Describe when the investments become used and useful to the customer. spend, and transfers to plant by year.

[Describe if it is a program or project and details about how often in a year, it becomes used-and-useful. (i.e. if transfer to plant occurs monthly, quarterly or upon project completion).]

Ongoing average of two rebuilds per year with multiple projects being in various stages of design, construction and closeout.

2.6 Discuss how the proposed investment aligns with strategic vision, goals, objectives and mission statement of the organization.

[If this is a program or compilation of discrete projects, explain the importance of the body of work.]

Mission: We improve our customers' lives through innovative energy solutions.

Vision: Better energy for life

These projects will help Avista stay ahead of the curve of load growth and equipment age to prevent customer outages.

2.7 Include why the requested amount above is considered a prudent investment, providing or attaching any supporting documentation. In addition, please explain how the investment prudency will be reviewed and re-evaluated throughout the project

Customer outages are longer and larger when older equipment fails.

2.8 Supplemental Information

2.8.1 Identify customers and stakeholders that interface with the business case

Electrical Engineering, Generation Production/Substation Support, Transmission Operations and System Planning and Operations

2.8.2 Identify any related Business Cases

[Including any business cases that may have been replaced by this business case]

Not Applicable.

3 MONITOR AND CONTROL

3.1 Steering Committee or Advisory Group Information

[Please identify and describe the steering committee or advisory group for initial and ongoing vetting, as a part of your departmental prioritization process.]

The Engineering Roundtable manages the prioritization of projects within this business case as supported by Asset Management studies and input from company subject matter experts. The Engineering Roundtable is comprised of representatives from the following departments: Asset Management, Compliance, System Planning, System Operations, Telecommunications, Transmission Contracts, Protection Engineering, Substation Engineering, Transmission Engineering, and Substation Support.

3.2 Provide and discuss the governance processes and people that will provide oversight

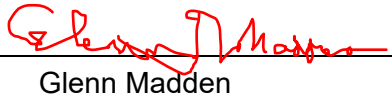
Engineering Roundtable meets several times a year to analyze current and future projects.

3.3 How will decision-making, prioritization, and change requests be documented and monitored

Project folders are saved to Engineering shared drives and Businesss Case Funds Requests are available on the Finance sharepoint site

4 APPROVAL AND AUTHORIZATION

The undersigned acknowledge they have reviewed the Substation - Station Rebuild Program and agree with the approach it presents. Significant changes to this will be coordinated with and approved by the undersigned or their designated representatives.

Signature:		Date:	12-23-2020
Print Name:	Glenn Madden		
Title:	Manager, Substation Engineering		
Role:	Business Case Owner		

Signature:		Date:	~~1/5/2020~~ 1/5/2021
Print Name:	Josh DiLuciano		
Title:	Director, Electrical Engineering		
Role:	Business Case Sponsor		

Signature:	Damon Fisher *Damon Fisher*	Date:	1/5/2021
Print Name:	Damon Fisher		
Title:	Principle Engineer		
Role:	Steering/Advisory Committee Review		

Template Version: 05/28/2020

ATTACHMENT B TO AVISTA'S RESPONSE TO PUBLIC COUNSEL

DATA REQUEST NO. 339

BEFORE THE WASHINGTON

UTILITIES & TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

AVISTA CORPORATION D/B/A/ AVISTA UTILITIES

Respondent.

DOCKETS UE-220053, UG-220054, and UE-210854 (Consolidated)

SEBASTIAN COPPOLA
ON BEHALF OF THE
WASHINGTON STATE OFFICE OF THE ATTORNEY GENERAL
PUBLIC COUNSEL UNIT

EXHIBIT SC-21

Avista's Response to Public Counsel's Data Request No. 208, with Attachment A, Data Request No. 210–211, and Data Request No. 212, with Attachments A–D, on Detail Support of Capital Additions

July 29, 2022

AVISTA CORP.
RESPONSE TO REQUEST FOR INFORMATION

JURISDICTION:	WASHINGTON	DATE PREPARED:	05/17/2022
CASE NO.:	UE-220053 & UG-220054	WITNESS:	Justin Baldwin-Bonney
REQUESTER:	Public Counsel	RESPONDER:	K. Schultz / T. Benjamin
TYPE:	Data Request	DEPT:	Regulatory Affairs
REQUEST NO.:	PC – 208	TELEPHONE:	(509) 495-2482
		EMAIL:	kaylene.schultz@avistacorp.com

SUBJECT: Capital Additions 2021, TY1 and TY2

REQUEST:
RE: Capital Additions 2021, TY1 and TY2, Justin A. Baldwin-Bonney, Exh JBB-3 at 1–4.
For each programmatic project or program of $1.0 million or greater in 2021 that repeats annually, please provide the following information in Excel:

a. Expand the schedules to include historical amounts spent in each year 2018 through 2021.

b. Provide the average amount spent for the three years 2018–2020 and the variance amount and percent against the 2021 actual amount.

c. Explain any variance of 10 percent or greater and provide the amount related to each reason for the variance.

d. Provide the number of units, quantities, or other data supporting the capital additions for each year 2018 through 2021

RESPONSE:

a. Please see PC-DR-208 Attachment A for transfers-to-plant (TTP) on a system basis by Business Case as contained in Exh. JBB-3 for the period of 2018-2024 (actuals for 2018-2021, forecasted for 2022-2024). The Colstrip 3 & 4 Capital Projects Business Case is not included in this analysis. Please see Staff-DR-123 for more information regarding Colstrip.
b. The average of TTP for the three years 2018-2020 can be derived by Public Counsel from the data provided in PC-DR-208 Attachment A. Please note, the Company bases its determination of rate base included in this case off TTP (when the Business Case is or intended to be in-service and used and useful), rather than spend.
c. As noted in part b above, calculating the variance on a dollar and percent basis between a 3-year average of 2018-2020 and the 2021 actual amount on a system basis can be done by Public Counsel by using the data as provided in PC-DR-208 Attachment A. If more particular information on variances is requested for a specific Business Case or set of Business Cases among the list of Business Cases (134 Business Cases in total over the period 2021-2024) in PC-DR-208 Attachment A for the years provided, please advise.
d. Please refer to the Business Cases for supporting documentation. Please note, the Business Case generally includes spend, and as mentioned in part b. above, the Company uses TTP as the basis for determining rate recovery. Please see the associated Business Case located in one of the following: Exh. JRT-4, Exh. HLR-2, Exh. JMK-2, Exh. KEM-2, Exh. SJK-2, and Exh. DRH-4. Mr. Baldwin-Bonney's Exh. JBB-3 provides a listing of the Business Cases by name and includes a reference to the capital witness's testimony that sponsors the Business Case. Please also refer to Staff-DR-121

Attachment A for references, including page numbers, to the related testimony and Business Case exhibits by Business Case included in this case.

Business cases that support capital additions for 2018-2020 (actual TTP that was deemed prudent and in-service, per Final Order 08 / 05) were previously provided in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated)* have been provided as the following attachments:

- PC-DR-208 Attachment B (previously Exh. JRT-6 in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated))*
- PC-DR-208 Attachment C (previously Exh. HLR-11 in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated))*
- PC-DR-208 Attachment D (previously Exh. JMK-3 in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated))*
- PC-DR-208 Attachment E (previously Exh. KEM-2 in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated))*
- PC-DR-208 Attachment F (previously Exh. DRH-7 in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated))*

ATTACHMENT A TO AVISTA'S RESPONSE TO PUBLIC COUNSEL'S DATA REQUEST NO. 208

PC-DR-208 Attachment A
System Transfers to Plant (TTP) by Business Case (including 2021 Budgeted TTP)

		Actual TTP				Forecasted TTP			
Business Case	**Reoccurring? [2]**	**2018 Actual TTP (System)**	**2019 Actual TTP (System)**	**2020 Actual TTP (System)**	**2021 Actual TTP (System)**	**2022 Forecasted TTP (System)**	**2023 Forecasted TTP (System)**	**2024 Forecasted TTP (System)**	**2021 Budgeted TTP (System)**
Apprentice/Craft Training	N	$ 136,695	$ 1,890	$ 43,920	$ 45,004	$ -	$ -	$ -	$ 61,677
Atlas	Y	$ 2,242,717	$ 399,255	$ 2,339,714	$ 2,756,260	$ 1,452,641	$ 2,948,867	$ 2,119,113	$ 2,131,345
Automation Replacement	Y	$ 1,231,420	$ 319,503	$ 405,105	$ 649,170	$ 349,999	$ 349,999	$ 600,000	$ 419,000
Base Load Hydro	Y	$ 943,795	$ 748,288	$ 800,907	$ 369,768	$ 958,925	$ 963,504	$ 963,504	$ 1,025,004
Base Load Thermal Program	Y	$ 2,218,870	$ 2,305,760	$ 2,222,952	$ 2,454,389	$ 2,484,254	$ 2,693,105	$ 2,623,988	$ 2,764,186
Basic Workplace Technology Delivery	Y	$ -	$ 241	$ 1,277,200	$ 1,172,274	$ 813,479	$ 800,005	$ 800,003	$ 440,003
Boulder Park Generator Replacement	N	$ -	$ -	$ -	$ -	$ -	$ -	$ 999,998	$ -
Cabinet Gorge 15 kV Bus Replacement	N	$ -	$ -	$ 396,721	$ 411,049	$ -	$ -	$ -	$ -
Cabinet Gorge Dam Fishway	N	$ -	$ -	$ 54,207	$ (54,207)	$ 63,475,101	$ 235,000	$ -	$ -
Cabinet Gorge HVAC Replacement	N	$ -	$ -	$ -	$ -	$ -	$ 1,500,000	$ -	$ -
Cabinet Gorge Station Service	N	$ -	$ -	$ -	$ -	$ 7,761,859	$ 5,152,936	$ -	$ -
Cabinet Gorge Stop Log Replacement	N	$ -	$ -	$ -	$ -	$ -	$ 1,200,000	$ -	$ -
Cabinet Gorge Unit 3 Protection & Control Upgrade	N	$ -	$ -	$ -	$ 3,073,449	$ -	$ -	$ -	$ 2,818,081
Cabinet Gorge Unit 4 Protection & Control Upgrade	N	$ -	$ -	$ -	$ -	$ 750,000	$ -	$ -	$ 2,831,852
Cabinet Gorge Unwatering Pumps	N	$ -	$ -	$ -	$ -	$ 395,000	$ 395,016	$ -	$ -
Capital Tools & Stores	Y	$ 2,717,260	$ 1,771,563	$ 1,634,823	$ 2,350,482	$ 2,500,008	$ 2,500,008	$ 2,500,008	$ 2,753,832
Central 24 HR Operations Facility	N	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,598,545	$ -
Clark Fork Settlement Agreement	Y	$ 2,076,672	$ 994,801	$ 945,205	$ 2,703,250	$ 4,839,609	$ 5,622,720	$ 3,877,380	$ 6,470,552
Colstrip Transmission	Y	$ 120,892	$ 357,673	$ 385,002	$ 558,300	$ 325,001	$ 370,002	$ 639,999	$ 724,001
Control and Safety Network Infrastructure	N	$ -	$ -	$ -	$ -	$ 1,324,039	$ 1,282,468	$ 1,485,787	$ -
Coyote Springs LTSA	N	$ -	$ 44,858	$ -	$ 15,898,972	$ -	$ -	$ -	$ -
CS2 Single Phase Transformer	N	$ -	$ -	$ 2,847,790	$ 17,052,904	$ -	$ -	$ -	$ 18,800,848
Customer Experience Platform Program [1]	Y	$ -	$ -	$ -	$ 6,540,925	$ 5,999,915	$ 6,300,000	$ 6,300,000	$ 4,338,871
Customer Facing Technology Program	Y	$ 7,432,557	$ 6,950,848	$ 15,868,642	$ 3,465,629	$ 4,078,651	$ 4,699,999	$ 4,700,000	$ 5,253,159
Customer Transactional Systems	Y	$ -	$ -	$ 1,704,621	$ 4,004,370	$ 3,859,166	$ 3,500,000	$ 3,749,987	$ 3,740,591
Data Center Compute and Storage Systems	Y	$ 207,966	$ 2,233,253	$ 1,956,169	$ 2,093,930	$ 1,260,205	$ 2,063,801	$ 1,972,626	$ 495,965
Digital Grid Network	Y	$ 2,470,662	$ 531,567	$ 1,943,211	$ 1,221,333	$ 2,801,323	$ 2,121,419	$ 2,461,518	$ 1,403,703
Distribution Grid Modernization	Y	$ 14,788,545	$ 10,112,822	$ 7,500,912	$ 1,507,018	$ 2,165,010	$ 2,239,852	$ 794,988	$ -
Distribution Minor Rebuild	Y	$ 9,272,528	$ 11,868,879	$ 12,157,855	$ 11,835,053	$ 11,499,986	$ 11,499,986	$ 10,999,980	$ 10,046,229
Distribution System Enhancements	Y	$ 3,685,446	$ 4,853,883	$ 3,731,511	$ 6,102,801	$ 6,930,025	$ 7,069,995	$ 7,000,013	$ 5,999,999
Distribution Transformer Change Out Program	N	$ 2,064,151	$ 995,659	$ 170,931	$ 107,443	$ -	$ -	$ -	$ 399,996
Downtown Network - Asset Condition	Y	$ 2,742,350	$ 1,815,954	$ 1,915,580	$ 1,883,954	$ 1,600,000	$ 1,999,999	$ 2,400,000	$ 1,599,997
Downtown Network - Performance & Capacity	Y	$ 340,338	$ 379,678	$ 1,947,160	$ 670,739	$ 1,100,000	$ 1,150,000	$ 1,200,000	$ 1,717,694
Elec Relocation and Replacement Program	Y	$ 1,573,450	$ 1,693,571	$ 6,503,138	$ 5,183,165	$ 5,399,944	$ 5,399,984	$ 5,399,987	$ 2,751,073
Electric Storm	Y	$ 3,190,440	$ 6,237,565	$ 10,510,175	$ 17,798,754	$ 6,023,406	$ 6,000,012	$ 6,000,012	$ 3,423,275
Electric Transportation	Y	$ -	$ -	$ -	$ 616,426	$ 2,775,000	$ 3,900,000	$ 4,060,000	$ 2,000,253
Endpoint Compute and Productivity Systems	Y	$ 1,033,833	$ 10,919,526	$ 5,056,069	$ 1,657,283	$ 3,498,321	$ 3,416,996	$ 5,681,768	$ 2,877,669
Energy Delivery Modernization & Operational Efficiency	Y	$ -	$ -	$ -	$ 2,183,337	$ 5,560,672	$ 3,449,859	$ 5,789,674	$ 5,462,847
Energy Delivery Operational Efficiency & Shared Services	N	$ 1,973,649	$ 5,187,210	$ 3,300,317	$ 648,749	$ -	$ -	$ -	$ 388,925
Energy Imbalance Market	N	$ -	$ -	$ 2,832,327	$ 10,584,930	$ 12,016,376	$ -	$ -	$ 9,576,711
Energy Imbalance Market Modernization & Operational Efficiency	N	$ -	$ -	$ -	$ -	$ -	$ 499,974	$ 585,791	$ -
Energy Resources Modernization & Operational Efficiency	Y	$ 509,680	$ 895,569	$ 1,823,770	$ 1,550,948	$ 2,727,599	$ 2,679,478	$ 2,695,981	$ 938,827
Enterprise & Control Network Infrastructure [3]	Y	$ 1,307,216	$ 5,021,478	$ 2,838,112	$ 6,049,746	$ 3,243,307	$ -	$ -	$ 6,965,904
Enterprise Business Continuity	Y	$ 257,515	$ (0)	$ -	$ 171,368	$ 93,045	$ 422,064	$ 100,000	$ 302,427
Enterprise Communication Systems	Y	$ 428,669	$ 2,050,011	$ 1,812,954	$ 2,216,341	$ 1,472,733	$ 2,482,488	$ 2,115,997	$ 1,757,065
Enterprise Data Science	N	$ -	$ 1,437,251	$ 1,299,169	$ 21,497	$ -	$ -	$ -	$ -
Enterprise Network Infrastructure	N	$ -	$ -	$ -	$ -	$ 2,235,285	$ 2,341,928	$ 1,544,361	$ -
Enterprise Security	Y	$ 1,037,227	$ 3,816,881	$ 3,886,215	$ 3,113,431	$ 972,340	$ 1,137,498	$ 1,400,499	$ 1,249,414
Environmental Control & Monitoring Systems	Y	$ 100,618	$ 749,778	$ 580,676	$ 670,378	$ 1,123,937	$ 964,347	$ 887,389	$ 1,088,594
ET Modernization & Operational Efficiency - Technology	Y	$ 1,753,393	$ 2,462,107	$ 2,192,326	$ 2,214,553	$ 1,564,548	$ 2,002,429	$ 2,053,458	$ 1,869,211
Facilities and Storage Location Security	Y	$ -	$ 1,009,634	$ 409,092	$ 267,591	$ 210,919	$ 489,088	$ 345,587	$ 246,161
Fiber Network Lease Service Replacement	Y	$ -	$ -	$ 566,168	$ 591,261	$ 1,392,970	$ 1,687,126	$ 1,392,938	$ 2,054,204
Financial & Accounting Technology	Y	$ 1,195,280	$ 3,446,598	$ 395,007	$ 4,537,652	$ 1,788,284	$ 2,775,001	$ 2,150,001	$ 3,514,217
Fleet Services Capital Plan	Y	$ 8,560,627	$ 6,662,890	$ 4,913,208	$ 5,810,999	$ 7,904,640	$ 5,608,016	$ 5,423,704	$ 6,872,893
Gas Above Grade Pipe Remediation Program [3]	Y	$ -	$ -	$ -	$ -	$ 682,000	$ 714,000	$ 709,000	$ -
Gas Airway Heights HP Reinforcement	N	$ -	$ -	$ -	$ -	$ 9,634,502	$ -	$ -	$ 2,999,743
Gas Cathodic Protection Program	Y	$ 311,249	$ 784,320	$ 704,512	$ 325,122	$ 715,000	$ 715,000	$ 715,000	$ 800,500
Gas Cheney HP Reinforcement	N	$ -	$ 3,048,353	$ 4,944,134	$ 2,834,650	$ -	$ -	$ -	$ 3,099,608

PC-DR-208 Attachment A
System Transfers to Plant (TTP) by Business Case (including 2021 Budgeted TTP)

		Actual TTP				Forecasted TTP			
Business Case	**Reoccurring? [2]**	**2018 Actual TTP (System)**	**2019 Actual TTP (System)**	**2020 Actual TTP (System)**	**2021 Actual TTP (System)**	**2022 Forecasted TTP (System)**	**2023 Forecasted TTP (System)**	**2024 Forecasted TTP (System)**	**2021 Budgeted TTP (System)**
Gas Facility Replacement Program (GFRP) Aldyl A Pipe Replacement	Y	$ 21,914,044	$ 22,002,672	$ 20,857,498	$ 22,430,464	$ 25,687,251	$ 27,687,251	$ 24,444,163	$ 22,832,198
Gas HP Pipeline Remediation Program	N	$ 4,952	$ 0	$ -	$ 702,918	$ 599,998	$ -	$ -	$ 699,752
Gas Isolated Steel Replacement Program	Y	$ 1,416,008	$ 1,459,659	$ 748,884	$ 957,955	$ 862,754	$ 850,008	$ 850,008	$ 1,399,910
Gas Non-Revenue Program	Y	$ 8,811,389	$ 8,173,893	$ 7,166,320	$ 9,831,020	$ 9,295,000	$ 8,500,010	$ 8,500,010	$ 7,999,999
Gas Operator Qualification Compliance	N	$ -	$ 248,710	$ 34,123	$ 28,045	$ -	$ -	$ -	$ 65,074
Gas Overbuilt Pipe Replacement Program	N	$ 85,263	$ 755,731	$ 206,215	$ 158,171	$ -	$ -	$ -	$ 459,747
Gas PMC Program	Y	$ 2,863,796	$ 2,852,374	$ 1,426,939	$ 2,297,030	$ 3,500,004	$ 3,799,993	$ 1,500,000	$ 2,949,736
Gas Pullman HP Reinforcement Project	N	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,400,004	$ -
Gas Regulator Station Replacement Program	Y	$ 1,067,355	$ 996,497	$ 610,389	$ 1,216,306	$ 985,579	$ 1,000,002	$ 799,999	$ 1,462,037
Gas Reinforcement Program	Y	$ 1,767,984	$ 795,172	$ 1,450,851	$ 620,671	$ 1,299,997	$ 1,299,999	$ 1,300,002	$ 1,299,744
Gas Replacement Street and Highway Program	Y	$ 4,704,048	$ 7,592,120	$ 2,888,314	$ 3,120,332	$ 3,495,650	$ 3,500,000	$ 3,500,000	$ 3,418,022
Gas Telemetry Program	Y	$ 214,943	$ 159,810	$ 103,591	$ 155,090	$ 303,256	$ 210,004	$ 210,004	$ 174,438
Gas Transient Voltage Mitigation Program [3]	Y	$ -	$ -	$ -	$ -	$ 875,000	$ 965,000	$ 250,000	$ -
Generation DC Supplied System Update	Y	$ 2,435,491	$ (15,071)	$ 292,079	$ 237,573	$ 550,001	$ 550,001	$ 400,000	$ 249,996
Generation Masonry Building Rehabilitation	N	$ -	$ -	$ -	$ -	$ 493,993	$ 493,995	$ 493,990	$ -
Generation Protection Upgrades	N	$ -	$ -	$ -	$ -	$ -	$ -	$ 587,500	$ -
Generation, Substation & Gas Location Security	Y	$ -	$ -	$ -	$ 2,683,814	$ 332,159	$ 459,001	$ 545,002	$ 483,038
High Voltage Protection (HVP) Refresh	N	$ 163,122	$ 291,477	$ -	$ -	$ 226,712	$ 336,542	$ 190,320	$ 358,075
HMI Control Software	Y	$ 54,541	$ 2,918	$ -	$ 336,041	$ 3,500,000	$ 2,550,000	$ 1,550,000	$ 2,200,000
Human Resources Technology	Y	$ 135,775	$ 120,315	$ 871,690	$ 239,355	$ 499,529	$ 500,002	$ 500,000	$ 699,555
Hydro Safety Minor Blanket	N	$ 242,972	$ -	$ -	$ 40,951	$ -	$ -	$ -	$ 50,004
Identity and Access Governance (IAG) [3]	Y	$ -	$ -	$ -	$ -	$ 672,255	$ 418,119	$ 191,368	$ -
Jackson Prairie Joint Project	Y	$ 2,351,222	$ 2,489,056	$ 2,358,693	$ 2,349,150	$ 2,378,977	$ 2,369,965	$ 2,420,989	$ 2,376,660
Joint Use	Y	$ -	$ -	$ 4,012,728	$ 1,665,814	$ 2,749,992	$ 2,950,008	$ 2,950,008	$ 2,750,002
KF_Fuel Yard Equipment Replacement	N	$ -	$ -	$ -	$ -	$ -	$ 30,367,127	$ -	$ -
Land Mobile Radio & Real Time Communication Systems	Y	$ 180,863	$ 1,040,335	$ 2,396,177	$ 340,231	$ 3,569,746	$ 1,005,328	$ 3,028,940	$ 3,295,261
LED Change-Out Program	Y	$ 1,367,942	$ 676,578	$ 411,488	$ 263,248	$ 299,964	$ 299,964	$ 299,964	$ 399,996
Legal & Compliance Technology	Y	$ 127,413	$ 201,916	$ 517,680	$ 89,026	$ 400,015	$ 413,072	$ 339,598	$ 322,780
Little Falls Plant Upgrade	N	$ 7,892,001	$ 8,953,839	$ 231,373	$ 1,430,408	$ -	$ -	$ -	$ 1,450,889
Long Lake Plant Upgrade	N	$ 3,488,539	$ 733,802	$ 211,786	$ 1,274,252	$ -	$ -	$ 19,541,000	$ 1,330,925
Meter Minor Blanket	N	$ 257,742	$ 198,169	$ 245,518	$ 254,473	$ -	$ -	$ -	$ 249,996
Monroe Street Abandoned Penstock Stabilization	N	$ -	$ -	$ -	$ -	$ -	$ 899,992	$ -	$ -
N Lewiston Autotransformer - Failed Plant	N	$ -	$ -	$ -	$ -	$ 5,554,506	$ -	$ -	$ -
Network Backbone	N	$ -	$ -	$ -	$ -	$ 188,444	$ 3,879,878	$ 3,686,842	$ -
New Revenue - Growth	Y	$ 81,087,056	$ 71,589,173	$ 76,296,316	$ 77,701,938	$ 73,429,598	$ 67,348,997	$ 67,371,967	$ 57,697,286
Nine Mile HED Battery Building	N	$ -	$ -	$ -	$ -	$ 800,001	$ -	$ -	$ -
Nine Mile Powerhouse Crane Rehab	N	$ -	$ -	$ -	$ -	$ 1,699,988	$ -	$ -	$ -
Nine Mile Units 3 & 4 Control Upgrade	N	$ -	$ -	$ -	$ -	$ -	$ 2,000,000	$ 1,999,999	$ -
Noxon Rapids HVAC	N	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,250,002	$ -
Oil Storage Improvements	N	$ -	$ -	$ -	$ -	$ -	$ 1,762,827	$ -	$ -
Outage Management System & Advanced Distribution Management Syste	N	$ -	$ -	$ -	$ -	$ -	$ 10,000,000	$ 15,000,000	$ -
Payment Card Industry Compliance (PCI)	N	$ -	$ 617,112	$ 847,201	$ 597,249	$ -	$ -	$ -	$ -
Peaking Generation Business Case	Y	$ 110,416	$ 322,615	$ 314,540	$ 606,688	$ 445,001	$ 458,000	$ 450,000	$ 450,000
Post Falls Landing and Crane Pad Development	N	$ -	$ -	$ -	$ 3,292,267	$ -	$ -	$ -	$ 3,307,656
Post Falls North Channel Spillway Rehabilitation	N	$ -	$ -	$ -	$ -	$ -	$ -	$ 18,499,999	$ -
Primary URD Cable Replacement	N	$ 637,472	$ 813,805	$ 164,230	$ 35,655	$ -	$ -	$ -	$ -
Protection System Upgrade for PRC-002	N	$ -	$ 1,165,241	$ 0	$ 7,121,962	$ 80,000	$ 11,879,164	$ -	$ -
Regulating Hydro	Y	$ 6,330,403	$ 1,966,017	$ 1,034,433	$ 2,004,462	$ 2,947,845	$ 2,961,000	$ 2,961,000	$ 2,390,000
Saddle Mountain 230/115kV Station (New) Integration Project Phase 1	N	$ 2,554,495	$ 8,943,952	$ 28,852,361	$ 3,490,919	$ -	$ -	$ -	$ -
Saddle Mountain 230/115kV Station (New) Integration Project Phase 2	N	$ -	$ -	$ 1,110,656	$ 11,210,582	$ 19,962,533	$ -	$ -	$ 11,805,060
SCADA - SOO and BuCC	Y	$ 528,722	$ 508,435	$ 1,822,149	$ 1,523,098	$ 1,026,882	$ 736,223	$ 699,972	$ 1,351,728
Security Compliance [3]	Y	$ -	$ -	$ -	$ -	$ 250,001	$ 250,001	$ 244,774	$ -
Spokane River License Implementation	Y	$ 415,863	$ 435,911	$ 1,308,813	$ 746,294	$ 629,226	$ 535,000	$ 492,301	$ 1,659,840
Spokane Smart Circuit	N	$ (2,909)	$ -	$ -	$ 550,569	$ -	$ -	$ -	$ -
Spokane Valley Transmission Reinforcement Project	N	$ -	$ (110)	$ -	$ 13,683,430	$ 2,000,000	$ -	$ -	$ 13,525,820
Strategic Initiatives	N	$ 1,056,725	$ 775,452	$ 10,417,329	$ 6,265,315	$ 2,522,399	$ -	$ -	$ 2,000,000
Structures and Improvements/Furniture	Y	$ 3,216,093	$ 1,558,328	$ 2,162,499	$ 1,574,915	$ 3,639,388	$ 3,349,639	$ 3,349,609	$ 3,551,564
Substation - New Distribution Station Capacity Program	Y	$ 642,886	$ 3,768,440	$ 8,043,164	$ 2,321,014	$ 5,765,300	$ 11,076,449	$ 12,701,549	$ 860,732

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		Actual TTP				Forecasted TTP			
Business Case	**Reoccurring? [2]**	**2018 Actual TTP (System)**	**2019 Actual TTP (System)**	**2020 Actual TTP (System)**	**2021 Actual TTP (System)**	**2022 Forecasted TTP (System)**	**2023 Forecasted TTP (System)**	**2024 Forecasted TTP (System)**	**2021 Budgeted TTP (System)**
Substation - Station Rebuilds Program	Y	$ 17,850,286	$ 14,313,860	$ 11,413,390	$ 4,672,935	$ 12,998,326	$ 58,412,186	$ 41,493,604	$ 6,639,082
Technology Failed Assets	Y	$ 1,695	$ 786,634	$ 973,270	$ 533,505	$ 611,563	$ 556,208	$ 556,198	$ 616,980
Technology Refresh to Sustain Business Process	N	$ 8,687,848	$ 3,713,767	$ (2,616)	$ 812,952	$ -	$ -	$ -	$ 562,670
Telematics 2025	N	$ -	$ -	$ -	$ 651,009	$ 438,347	$ 808,250	$ -	$ 1,100,000
Transmission - Minor Rebuild	Y	$ 586,929	$ 3,971,001	$ 1,674,541	$ 4,331,179	$ 3,400,375	$ 3,343,418	$ 3,343,419	$ 3,343,428
Transmission - Performance & Capacity [3]	Y	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,500,000	$ -
Transmission Construction - Compliance	N	$ 10,845,388	$ 5,883,218	$ 9,539,913	$ 2,189,745	$ 2,111,069	$ 1,550,000	$ -	$ 2,100,825
Transmission Major Rebuild - Asset Condition	Y	$ 7,760,684	$ 314,005	$ -	$ 16,128,097	$ 5,680,751	$ 12,000,000	$ 11,000,000	$ 17,900,000
Transmission NERC Low-Risk Priority Lines Mitigation	N	$ 774,519	$ 744,660	$ 5,027,589	$ 327	$ 2,554,255	$ 2,499,984	$ -	$ 1,023,452
Tribal Permits & Settlements	Y	$ 87,307	$ 1,251,484	$ -	$ 43,395	$ 259,776	$ 249,996	$ 249,996	$ -
Upper Falls Trash Rake Replacement	N	$ -	$ -	$ -	$ -	$ -	$ 1,500,000	$ -	$ -
Use Permits	Y	$ -	$ -	$ 126,396	$ 203,901	$ 150,012	$ 150,012	$ 150,012	$ 50,004
Washington Advanced Metering Infrastructure Project	N	$ 33,868,858	$ 52,793,010	$ 28,711,359	$ 2,986,858	$ -	$ -	$ -	$ 6,815,471
Westside 230/115kV Station Brownfield Rebuild Project	N	$ 9,559,989	$ 650,861	$ (634,812)	$ 8,339,334	$ -	$ -	$ 8,924,475	$ -
Wildfire Resiliency Plan	Y	$ -	$ -	$ 3,206,894	$ 18,369,323	$ 24,544,986	$ 27,000,000	$ 29,000,001	$ 17,117,355
Wood Pole Management	Y	$ 10,999,184	$ 10,369,759	$ 10,275,278	$ 14,588,071	$ 12,999,996	$ 12,999,996	$ 12,999,996	$ 15,739,332
WSDOT Control Zone Mitigation	Y	$ -	$ -	$ -	$ 408,317	$ 749,998	$ 1,200,005	$ 1,399,999	$ 999,999
WSDOT Franchises	Y	$ -	$ -	$ 2,531,162	$ 505	$ 99,996	$ 99,996	$ 99,996	$ 237,084

[1] Customer Experience Platform Program includes "Strategic Initiatives" TTP in 2020 & 2021.

[2] For purposes of responding to this data request, the Company has defined reoccurring (programmatic in nature) as business cases that have transfers to plant occurring annually each year from 2021-2024, which is the period of TTP included in this case. In column B "Reoccurring?", "Y" = Yes, reoccurring/programmatic in nature and "N" = No, non-reoccurring (i.e. discreet).

[3] These business cases have started or ended within the period identified as reoccurring; however, for purposes of this data request, are reoccurring in nature.

Please note, the analysis above does not contain TTP information related to the Colstrip Units 3 & 4 business case. See Staff-DR-123 for more information.

AVISTA CORP.
RESPONSE TO REQUEST FOR INFORMATION

JURISDICTION:	WASHINGTON	DATE PREPARED:	05/17/2022
CASE NO.:	UE-220053 & UG-220054	WITNESS:	Justin Baldwin-Bonney
REQUESTER:	Public Counsel	RESPONDER:	K. Schultz / T. Benjamin
TYPE:	Data Request	DEPT:	Regulatory Affairs
REQUEST NO.:	PC – 210	TELEPHONE:	(509) 495-2482
		EMAIL:	kaylene.schultz@avistacorp.com

SUBJECT: Capital Additions 2021, TY1 and TY2

REQUEST:
RE: Capital Additions 2021, TY1 and TY2, Justin A. Baldwin-Bonney, Exh JBB-3 at 1–4.

For each discreet project in the amount of $1.0 million or greater in 2021, please provide the following information in Excel:

a. The business case number.
b. The name and brief description of the project.
c. The start month and year of the project.
d. The in-service date for the project.
e. The actual amount spent in 2021 compared to the originally budgeted, estimated or forecasted cost of the project.
f. Provide the variance amount and percentage between the 2021 actual and estimated amount.
g. If the project spanned over multiple years, provide the cumulative actual project cost compared to the cumulative project estimated cost.
h. Provide the variance amount and percentage between the cumulative and estimate amount.
i. Explain any variance of 10 percent or greater in either the 2021 cost or the cumulative cost and provide the amount related to each reason for the variance.
j. Provide the number of units, quantities, or other data supporting the actual capital additions and the estimated additions for both 2021 and for the cumulative additions.
k. Provide a copy of the cost/benefit analysis in Excel with formulas intact, supporting data, and assumptions with clear explanations showing that this project was economically justified.

RESPONSE:

a. The Company only assigns a name (not Business Case number) to a Business Case. Please refer to the business cases contained in: Exh. JRT-4, Exh. HLR-2, Exh. JMK-2, Exh. KEM-2, Exh. SJK-2, and Exh. DRH-4. Mr. Baldwin-Bonney's Exh. JBB-3 provides a listing of the Business Cases by name and includes a reference to the capital witness's testimony that sponsors the Business Case. Please also refer to Staff-DR-121 Attachment A for references, including page numbers, to the related testimony and Business Case exhibits by Business Case included in this case.
b. As noted in part a. above, Mr. Baldwin-Bonney's Exh. JBB-3 provides a listing of the Business Cases by name and includes a reference to the capital witness's testimony that sponsors the Business Case. Staff-DR-121 Attachment A also provides a reference, including page numbers, to the related testimony and Business Case exhibits by Business Case included in this case. Both the Business Case and related testimony would provide a brief description of the capital investment.

c. For the timeframe of the project, including the start date, please see the respective Business Case. Please refer to parts a. and b. above for where to locate the individual Business Cases. See also d.

d. For when the Business Cases have or will be transferring to plant (in-service, used and useful serving customers), please refer to Staff-DR-122 Attachment A, tab "2021-2024 TT Detail" for transfers to plant (TTP) by month and year for the Business Cases included in this case. Please note, the Company bases its determination of rate base included in this case off TTP, rather than spend. The response to PC-DR-122 will be supplemented with updated forecasted 2022 transfers to plant as soon as available.

e. Please see PC-DR-208 Attachment A for actual 2021 TTP and 2021 budgeted TTP on a system basis by Business Case.

f. As noted in part e. above, PC-DR-208 Attachment A contains the actual 2021 TTP and 2021 Budgeted TTP on a system basis by Business Case. The variance and percentage can be derived by Public Counsel from these two columns (Column F & Column J).

g. To the extent available, actual transfers to plant for the period January 1, 2018 through December 31, 2021 have been provided in PC-DR-208 Attachment A. For the cumulative estimated cost of the Business Case, please see the respective Business Case. Please refer to parts a. and b. above for where to locate the individual Business Cases.

h. As noted in part g. above, calculating the variance amount and percentage between actual TTP on a system basis for the period 2018-2021 and the cumulative estimated cost of the Business Case can be derived by Public Counsel by looking at PC-DR-208 Attachment A and the Business Cases. Please refer to parts a. and b. above for where to locate the individual Business Cases.

i. If more particular information on variances is requested for a specific Business Case or set of Business Cases among the list of Business Cases (134 Business Cases in total over the period 2021-2024) in PC-DR-208 Attachment A for 2021, please advise.

j. Please refer to the Business Case for supporting documentation. Refer to parts a. and b. above for cross-references of the capital witness and where to locate the individual Business Cases for TTP occurring in years 2021-2024. For Business Cases that support capital additions for 2018-2020 (actual TTP that was deemed prudent and in-service, per Final Order 08 / 05), please see PC-DR-208 Attachments B-F that were previously provided in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated)*.

k. To the extent available, please see the associated Business Case for a cost/benefit analysis that was prepared. For many Business Cases, it's not a question of whether the Business Case needs to be done (it must be, for reliability, safety, mandatory/compliance, etc.), so a cost-benefit analysis may not have been performed or required. See individual Business Cases for need descriptions. Please refer to parts a. and b. above for where to locate the individual Business Cases.

AVISTA CORP.
RESPONSE TO REQUEST FOR INFORMATION

JURISDICTION:	WASHINGTON	DATE PREPARED:	05/17/2022
CASE NO.:	UE-220053 & UG-220054	WITNESS:	Justin Baldwin-Bonney
REQUESTER:	Public Counsel	RESPONDER:	K. Schultz / T. Benjamin
TYPE:	Data Request	DEPT:	Regulatory Affairs
REQUEST NO.:	PC – 211	TELEPHONE:	(509) 495-2482
		EMAIL:	kaylene.schultz@avistacorp.com

SUBJECT: Capital Additions 2021, TY1 and TY2

REQUEST:
RE: Capital Additions 2021, TY1 and TY2, Justin A. Baldwin-Bonney, Exh JBB-3 at 5–7.
For each project or program that repeats annually in the amount of $1.0 million or greater in 2022–2024, please provide the following information in Excel:

a. Expand the schedules to include historical amounts spent in each year 2019 through 2021.
b. Provide the average amount spent for the three years 2019–2021.
c. Explain any increase of 10 percent or greater between each forecasted year and the 3-year average, and provide the amount related to each reason for the variance.
d. Provide the basis for each annual forecasted amount.
e. Provide the number of units, quantities, or other data supporting the capital additions for each year 2019 through 2024. Provide the basis for each annual forecast of units, quantities or other supporting data

RESPONSE:
a. Please see PC-DR-208 Attachment A for transfers-to-plant (TTP) on a system basis by Business Case as contained in Exh. JBB-3 for the period of 2018-2024 (actuals for 2018-2021, forecasted for 2022-2024). The Colstrip 3 & 4 Capital Projects Business Case is not included in this analysis. Please see Staff-DR-123 for more information regarding Colstrip.
b. The average of TTP for the three years 2019-2021 can be derived by Public Counsel from the data provided in PC-DR-208 Attachment A. Please note, the Company bases its determination of rate base included in this case off TTP (when the Business Case is or intended to be in-service and used and useful), rather than spend.
c. As noted in part b above, calculating the variance on a dollar and percent basis between each forecasted year and the 3-year average of 2019-2021 on a system basis can be done by Public Counsel by using the data as provided in PC-DR-208 Attachment A. If more particular information on variances is requested for a specific Business Case or set of Business Cases among the list of Business Cases (134 Business Cases in total over the period 2021-2024) in PC-DR-208 Attachment A for the years provided, please advise.
d. For an overview of the Company's capital planning process – from the need/requirement for a capital investment through the approval of the capital (in aggregate) by the Company's Board of Directors, please see Mr. Ehrbar's direct testimony, Exh. PDE-1T, Section II. Capital Budgeting & Expenditures, beginning on page 2.
To the extent available, the basis for the capital investment, either on an annual or total cost basis, is typically included in the Business Case. Please note, the Business Case generally includes spend, and as mentioned in part b. above, the Company uses TTP as the basis for determining rate recovery.

Please see the associated Business Case located in one of the following: Exh. JRT-4, Exh. JBB-3, Exh. JMK-2, Exh. KEM-2, Exh. SJK-2, and Exh. DRH-4. Mr. Baldwin-Bonney's Exh. JBB-3 provides a listing of the Business Cases by name and includes a reference to the capital witness's testimony that sponsors the Business Case. Please also refer to Staff-DR-121 Attachment A for references, including page numbers, to the related testimony and Business Case exhibits by Business Case included in this case.

e. Please refer to the Business Case for supporting documentation. Refer to part d. above for cross-references of the capital witness and where to locate the individual Business Cases for TTP occurring in years 2021-2024. For Business Cases that support capital additions for 2018-2020 (actual TTP that was deemed prudent and in-service, per Final Order 08 / 05), please see PC-DR-208 Attachments B-F that were previously provided in Dockets UE-200900, UG-200901 and UE-200894 *(consolidated)*.

AVISTA CORP.
RESPONSE TO REQUEST FOR INFORMATION

JURISDICTION:	WASHINGTON	DATE PREPARED:	05/17/2022
CASE NO.:	UE-220053 & UG-220054	WITNESS:	Justin Baldwin-Bonney
REQUESTER:	Public Counsel	RESPONDER:	K. Schultz / T. Benjamin
TYPE:	Data Request	DEPT:	Regulatory Affairs
REQUEST NO.:	PC – 212	TELEPHONE:	(509) 495-2482
		EMAIL:	kaylene.schultz@avistacorp.com

SUBJECT: Capital Additions 2021, TY1 and TY2

REQUEST:
RE: Capital Additions 2021, TY1 and TY2, Justin A. Baldwin-Bonney, Exh JBB-3 at 5–7.
For each discreet project in the amount of $1.0 million or greater in 2022 through 2024, please provide the following information in Excel:

a. The business case number.
b. The name and brief description of the project.
c. The start month and year of the project.
d. The in-service date for the project.
e. The total project cost by year from inception to completion.
f. The start and end date of each phase of the project, and identify in which phase the project is currently in.
g. The cost to be incurred in each phase. Please provide both the capital additions and the O&M cost, separately.
h. Provide the timeframe between completion of the design drawings, the receipt of competitive bids from contractors and vendors, and the start of construction. For IS/IT projects replace design drawings with identification of detailed system requirements.
i. Provide the number of units, quantities, or other data supporting the forecasted capital additions for each year.
j. Provide a copy of the cost/benefit analysis in Excel with formulas intact, supporting data, and assumptions with clear explanations showing that this project was economically justified.

RESPONSE:

a. The Company only assigns a name (not Business Case number) to a Business Case. Please refer to the business cases contained in: Exh. JRT-4, Exh. HLR-2, Exh. JMK-2, Exh. KEM-2, Exh. SJK-2, and Exh. DRH-4. Mr. Baldwin-Bonney's Exh. JBB-3 provides a listing of the Business Cases by name and includes a reference to the capital witness's testimony that sponsors the Business Case. Please also refer to Staff-DR-121 Attachment A for references, including page numbers, to the related testimony and Business Case exhibits by Business Case included in this case.
b. As noted in part a. above, Mr. Baldwin-Bonney's Exh. JBB-3 provides a listing of the Business Cases by name and includes a reference to the capital witness's testimony that sponsors the Business Case. Staff-DR-121 Attachment A also provides a reference, including page numbers, to the related testimony and Business Case exhibits by Business Case included in this case. Both the Business Case and related testimony would provide a brief description of the capital investment.

c. For the timeframe of the project, including the start date, please see the respective Business Case. Please refer to parts a. and b. above for where to locate the individual Business Cases. See also part d.

d. For when the Business Cases have or will be transferring to plant (in-service, used and useful serving customers), please refer to Staff-DR-122 Attachment A, tab "2021-2024 TT Detail" for transfers to plant (TTP) by month and year for the Business Cases included in this case. Please note, the Company bases its determination of rate base included in this case off TTP, rather than spend. The response to PC-DR-122 will be supplemented with updated forecasted 2022 transfers to plant as soon as available.

e. Understanding that capital projects naturally evolve in scope over time, please see the Business Case for the current total estimated project cost (typically denoted in spend). There may be differences between the amounts referenced in the Business Case and the amounts included in the Company's case due to one being spend and the other being TTP. Refer to parts a. and b. above for where to locate the individual Business Cases.

   Actual TTP, on a system basis, for calendar years 2018-2021 have been provided in PC-DR-208 Attachment A.

   Forecasted provisional TTP for calendar years 2022-2024 can be found in Mr. Baldwin-Bonney's capital additions workpapers related to Adjustments 4.01, 4.02, and 5.08. As noted in part d. above, the Company intends to supplement PC-DR-122 with updated forecasted 2022 transfers to plant, as it becomes available. Please refer to PC-DR-122 Supplemental (once available).

   Please note, as discussed by Ms. Andrews in her testimony, Exh. EMA-1T, provisional TTP for calendar years 2022-2024 are subject to review. Annually, parties will review actual TTP for the prior calendar year, for final prudence, and verification of in-service, and used and useful plant investment. The revenue requirement associated with overall net plant investment not deemed prudent or meeting the levels of rate base approved by this Commission would be subject to refund based on the proposed reporting and review process as proposed by Ms. Andrews if approved by the Commission.

f. To the extent available, information on phases for a capital investment can sometimes be included in the Business Case. Generally, the Company does not forecast TTP by phase within the Business Case. As stated in part e. above and discussed by Ms. Andrews in her testimony, Exh. EMA-1T, provisional TTP for calendar years 2022-2024 will be subject to later review. Annually, parties will review actual TTP for the prior calendar year, for final prudence, and verification of in-service, and used and useful plant investment. The revenue requirement associated with overall net plant investment not deemed prudent or meeting the levels of rate base approved by this Commission would be subject to refund based on the proposed reporting and review process as proposed by Ms. Andrews if approved by the Commission.

g. Similar to part f. above, to the extent available, information on phases for a capital investment can sometimes be included in the Business Case. Generally, the Company tracks Business Cases at the overall TTP level (not by phases).

h. Business Cases are tracked at the overall TTP level. The Company did not prepare or segment Business Cases by these components (i.e. completion of design drawings/identification of detailed system requirements, receipt of competitive bids from contractors and vendors, start of construction, etc.). Given the voluminous nature of this request, the Company is providing examples that illustrate the timeframe between components for certain projects as follows:

Business Case Name	**PC-DR-212 Attachment Reference**
Long Lake Plant Upgrade	PC-DR-212 Attachment A
Protection System Upgrade for PRC-002	PC-DR-212 Attachment B (PRC-002 Phases)
Saddle Mountain 230/115kV Station (New) Integration Project Phase 2	PC-DR-212 Attachment C (Saddle Mtn Phases)
Westside 230/115kV Station Brownfield Rebuild Project	PC-DR-212 Attachment D (Westside Phases)

If there are other particular examples where you would like to see this kind of information, if available, please advise.

i. Please refer to the Business Case and related testimony for supporting information on the forecasted capital additions for calendar years 2022-2024 included in this case. Please refer to parts a. and b. above for where to locate the individual Business Cases, as well at the related capital witness testimony for each Business Case.

j. To the extent available, please see the associated Business Case for a cost/benefit analysis that was prepared. For many Business Cases, it's not a question of whether the Business Case needs to be done (it must be, for reliability, safety, mandatory/compliance, etc.), so a cost-benefit analysis may not have been performed or required. See individual Business Cases for need descriptions. Please refer to parts a. and b. above for where to locate the individual Business Cases.

ATTACHMENT A TO AVISTA'S RESPONSE TO PUBLIC COUNSEL'S DATA REQUEST NO. 212

PC-DR-212 Attachment A

Long Lake Plant Upgrade

	Project Status	Project Start Date (Actual/Planned)	Project Close Date (Actual/Planned)	Component Budget (Actual/Planned)	Design 100% Deliverable	Bid Date	Planned Construction Start	Notes
LL HED Station Service Upgrade "2"	Design	Mar. 2017	Q3 2025	$ 4,462,566	Feb 2023	Sep 2022	Aug 2023	
LL Bridge Crane Upgrade	Completed/Closed	April. 2017	Dec 2019	$ 2,354,027				
LL HED - Access Road Repaving	Completed/Closed	Jan. 2018	July 2019	$ 1,128,036				
LL HED - Sewer System Upgrade	Completed/Closed	Jan. 2018	Feb 2019	$ 207,855				
LL Unit Mondernization - Unit 3	Design	Jan. 2019	Q3 2025	$ 21,418,000	June 2023	May 2021	Aug 2023	
LL Facilities Upgrade - Phase 1	Completed/Closed	June. 2019	July 2020	$ 557,641				
Long Lake HED Fac Upgrade - "Phase 2"	Completed/Closed	July. 2019	Dec 2020	$ 181,797				
LL HED Unit Tailrace Bulkhead	Completed/Closed	April. 2020	Mar 2022	$ 1,291,377	May 2021		July 2021	
Unit 75480 - LL Forklift	Completed/Closed	Oct. 2020	Dec 2020	$ 124,752				
LL Unit Mondernization - Unit 4	Not Started	Q2 2023	Q2 2027	$ 13,350,000		May 2021		
LL Unit Modernization - Unit 2	Not Started	Q1 2025	Q2 2028	$ 12,625,000		May 2021		
LL Unit Modernization - Unit 1	Not Started	Q1 2026	Q2 2029	$ 11,500,000		May 2021		
Station Service 1	Not Started	Q1 2025	Q2 2028	$ 2,400,000		Sep 2026		
LL 6.9 kV Substation	Bid	Mar 2022	Q3 2025	$ 8,000,000	Aug 2023	Apr 2022,Oct 2023	Mar 2024	
LL 6.9 kV Substation GSU2	Bid	Mar 2022	Q3 2027	$ 4,000,000	Aug 2023	Apr 2022	Mar 2027	
LL 6.9 kV Substation Spare GSU	Bid	Mar 2022	Q4 2024	$ 2,500,000	Aug 2023	Apr 2022	N/A	
Balance of Plant	Not Started	Q1 2024	Q2 2027					

ATTACHMENT B TO AVISTA'S RESPONSE TO PUBLIC COUNSEL'S DATA REQUEST NO. 212

PC-DR-212 Attachment B
Protection System Upgrade for PRC-002

Project Location / Project Name	**Years Active**
Beacon Sub	
BEA PRC-002 Relay Repl.	2019-2022 (Project Open)
Beacon 230kV Breaker Purch	2022 (Project Open)
Cabinet Gorge Switchyard	
CGS - PRC-002	2019-2022 (Project In Service)
North Lewiston Sub	
NLW - Tucannon RAS	2021-2022 (Project In Service)
NLW PRC002 Line Relay Upgrades	2018-2021
NLW PRC002 Line Relay Upgrade	2018-2021
Rathdrum Sub	
Blue Creek Sub Comms Install	2021-2022 (Project Open)
RAT PRC-002 Relay Repl	2019-2022 (Project Open)
RAT PRC-002 Relay Repl..	2021-2022 (Project In Service)
Rathdrum115kV BreakerPurchase	2020-2022 (Project Open)
Shawnee Sub	
Shawnee PRC-002 Relay Repl.	2018-2019
Shawnee PRC-002 Relay Repl.C	2018-2019
Terra view - POTT Fiber	2018-2019

ATTACHMENT C TO AVISTA'S RESPONSE TO PUBLIC COUNSEL'S DATA REQUEST NO. 212

PC-DR-212 Attachment C

Saddle Mountain 230/115kV Station (New) Integration Project Phase 2

Site grading & Fencing drawings	Issued 7/24/2020 for Permitting, Revised & Issued 9/24/20 for construction	Site Grading started 10/19/20 - complete Fence Install started 1/3/21 - complete
Control Enclosure drawings	Issued 2/19/21 for construction	Control enclosure started 4/5/21 - complete
Physical drawings	Issued 6/24/21 for construction	Physical work started 7/26/21 – in progress
Electrical drawings	Issued 12/14/21 for construction	Electrical work started 1/3/22 – in progress

ATTACHMENT D TO AVISTA'S RESPONSE TO PUBLIC COUNSEL'S DATA REQUEST NO. 212

PC-DR-212 Attachment D

Westside 230/115kV Station Brownfield Rebuild Project

Project Type / Project Name	**Years Active**
IT / Communications Integration	
IT Sub West 230kV Sub Rebuild	2016-2018
Rental UTV Purchase	
WES - UTV Purchase	2021
Station Equipment Purchase	
Westside 115kV Breaker purch.	2022 (Project Open)
Westside 230kV Breaker purch	2021
Station Property Purchase	
Waikiki Land Purchase	2020
Westside 230kV Property	2013
WES-Upgrade Access Road	2015-2016
Station Rebuild - Phase 1	
Westside Sub-Rebuild Ph 1_COM	2016-2018
Westside Sub-Rebuild Ph 1_TRN	2011-2019
Station Rebuild - Phase 2	
Westside Rebuild Phase 2 230kV	2017-2021
Westside Rebuild Phase 2 Auto	2017-2022
Westside Rebuild Phase 2 Labor	2017-2020
Westside Rebuild Phase 2 Lines	2017-2022 (Project In Service)
Westside Rebuild Phase2 Sunset	2017-2019
Station Rebuild - Phase 3	
Westside Rebuild Phase 3	2020-2022 (Project Open)
Transmission Integration	
BEL-WES-COU 230: Westside Int.	2018-2021
Westside Sub 115kV Tx Int	2020-2021
Westside Sub Tx Integration	2017-2019
Westside Sub Tx Integration 21	2021-2022 (Project In Service)