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)

AARON TAM ON BEHALF OF THE WASHINGTON STATE OFFICE OF THE ATTORNEY GENERAL PUBLIC COUNSEL UNIT

EXHIBIT AT-24r

Avista's Response to Public Counsel Data Request No. 305, with Attachment D

REVISED September 20, 2022

AVISTA CORP. RESPONSE TO REQUEST FOR INFORMATION

JURISDICTION:WASHINGTONDATE PREPARED:06/21/2022CASE NO.:220053/54/210854WITNESS:David HowellREQUESTER:Public CounselRESPONDER:David James

TYPE: Data Request DEPT: Wildfire Resiliency REQUEST NO.: PC – 305 TELEPHONE: (509) 495-4185

EMAIL: dave.james@avistacorp.com

SUBJECT: RE: Wildfire Plan

Refer to David R. Howell, Exh. DRH-2 at 9–10, 14, 18, and 22.

REQUEST:

Avista's 2022 Wildfire Resiliency Plan shows actual, expected, and projected capital and O&M costs for each wildlife plan program.

- a) Please provide the wildfire program cost summary tables in Howell's Exhibit DRH-2 in Excel format (Table 3 at 9, Table 4 at 10, Table 6 at 14, Table 7 at 18, and Table 8 at 22) with underlying formulas intact that provide the basis for these costs.
- b) Please explain the basis of projected cost estimates for each of the wildfire programs.
- c) Please provide in Excel format the actual, expected, and projected number of units, quantities, wildfire metric targets, and other data that fall under each wildfire program for years 2020–2029.

RESPONSE:

a) See PC-DR-305 Attachment A – Tab "2022". Within the excel file, Column A, see coding for rows included in each table included in Exh. DRH-2 pages, 9-10, 14, 18 and 22, providing data available.

Howell Exhibit DRH-2 is the 2022 Wildfire Resiliency Plan and Table 3 of Page 9 indicates the cost forecast from 2020 through 2029. The Wildfire Plan was updated in December of 2021 so that it could be included in Testimony. At that time, year-end actual spend values for 2020 were indicated in the table but 2021 values reflected year-end expected (forecasted) values. Remaining values by year from 2022 to 2029 reflected budget level estimates. The table is reprinted below.

Avista Wildfire Plan Programs	Actual	Expected	Projected								
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
Capital											
Grid Hardening	\$3,189,759	\$17,150,000	\$22,795,000	\$25,350,000	\$27,350,000	\$29,720,000	\$29,720,000	\$30,300,000	\$30,300,000	\$30,300,000	\$246,174,759
Situational Awareness	\$228,680	\$1,675,000	\$2,250,000	\$2,150,000	\$3,650,000	\$5,150,000	\$5,150,000	\$5,150,000	\$5,150,000	\$5,150,000	\$35,703,680
Operations & Response	\$2,510	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,510
TOTAL CAPITAL	\$3,420,949	\$18,825,000	\$25,045,000	\$27,500,000	\$31,000,000	\$34,870,000	\$34,870,000	\$35,450,000	\$35,450,000	\$35,450,000	\$281,880,949
0&M											
Grid Hardening	\$315,372	\$947,000	\$700,000	\$700,000	\$700,000	\$700,000	\$700,000	\$700,000	\$700,000	\$700,000	\$6,862,372
Risk Vegetation Management	\$1,789,817	\$4,350,000	\$6,985,000	\$7,134,500	\$7,385,000	\$6,535,000	\$6,535,000	\$6,285,000	\$6,085,000	\$5,985,000	\$59,069,317
Situational Awareness	\$0	\$0	\$150,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$675,000
TOTAL O&M	\$2,105,189	\$5,297,000	\$7,835,000	\$7,909,500	\$8,160,000	\$7,310,000	\$7,310,000	\$7,060,000	\$6,860,000	\$6,760,000	\$66,606,689
TOTAL	\$5,526,138	\$24,122,000	\$32,880,000	\$35,409,500	\$39,160,000	\$42,180,000	\$42,180,000	\$42,510,000	\$42,310,000	\$42,210,000	\$348,487,638

Table 3. Wildfire Programs Actual Expenditures and Budget

b) See PC-DR-305 Attachment A. See also Company witness Howell testimony at Exh. DRH-1T and Exh. DRH-2-4 for detailed description related to the Company's Wildfire Resiliency Plan and cost determinations. Additional information provided to all parties in Avista's prior WA general rate case (Dockets UE-200900, et al) not provided as exhibits to this proceeding, which influenced initial Wildfire Plan cost planning, are provided as PC-DR-305 Attachment B "Wildfire Risk Analysis Summary – September 2019" and PC-DR-305 Attachment C "Wildfire Resiliency Cost Forecast – January 2020."

Cost estimates evolve over time and reflect updates to scope of work, cost of resources, contractual obligations, and scheduling. The 2022 cost trend document referenced as "Attachment A-Tab 2022" includes actual year-end costs for 2021 but otherwise mirrors the planned capital and operating & maintenance expenses as shown in the Howell testimony above.

The 2022 cost trend is reprinted on the following pages.

System Total: Wildfire Resiliency Capital Project Cost Forecast 2020-2029 (\$ in 000's)

					1	Budget Input	t (original)				
System & Transmission	2020 YE Actual	2021 YE Actual	2022	2023	2024	2025	2026	2027	2028	2029	10-yr
WFRES Transmission Planning	92	187	147	147	147	147	147	147	147	147	1,455
Fire-Weather Dashboard		0	150	75	75	75	75	75	75	75	675
Digital Data Collection (Geo Digital)	491	450	750	750	750	750	750	750	750	750	6,941
Transmission FR Pole Wraps	178	421	550	550	550	550	550	550	550	550	4,999
Fuel Reduction Partner		0	300	300	300	300	300	300	300	300	2,400
Nox-PC Fire Damage (risk tree)		513									513
Transmission Inspection Pgm	137	172	150	150	150	150	150	150	150	150	1,509
Transmission Total	\$899	\$1,743	\$2,047	\$1,972	\$1,972	\$1,972	\$1,972	\$1,972	\$1,972	\$1,972	\$18,493
	Operating 2020 YE	2021 YE				Budget Inpu	t (original)				
Electric Distribution	Actual	Actual	2022	2023	2024	2025	2026	2027	2028	2029	10-yr
WFRES Distribution Planning	233	269	294	294	294	294	294	294	294	294	2,854
WA Dx Risk Tree		2,111	3,686	3,232	3,232	2,688	2,688	2,688	2,688	2,688	25,700
ID Dx Risk Tree	1,239	3,152	1,899	1,818	1,818	1,512	1,512	1,512	1,512	1,512	17,486
Customer Choice RTRP		0	350	500	750	750	750	500	300	200	4,100
Digital Data Collection (AiDASH)	59	327	535	535	535	535	535	535	535	535	4,666
Distribution O&M	\$1,531	\$5,859	\$6,764	\$6,379	\$6,629	\$5,779	\$5,779	\$5,529	\$5,329	\$5,229	\$54,806
T&D O&M (grand total)	\$2,430	\$7,602	\$8,811	\$8,351	\$8,601	\$7,751	\$7,751	\$7,501	\$7,301	\$7,201	\$73,300

David James Rev.											
6/20/2022											
All Values in \$000's											
Changes to WF2021 Baseline						Budget	Input				
	2020 YE	2021 YE									
System & Transmission	Actuals	Actuals	2022	2023	2024	2025	2026	2027	2028	2029	10-yr
Fire-Weather Dashboard	197.75	189									386
Conforming Rights-of-Way		0	0	0	0	0	0	0	0	0	0
Transmission Inspection Pgm	1.27	1	200	200	200	200	200	200	200	200	1,602
Transmssion Steel Conversion	73.57	5,455	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	37,528
Transmission Total	\$273	\$5,644	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$39,517
						Budget	Input				
	2020 YE	2021 YE									
Electric Distribution	Actuals	Actuals	2022	2023	2024	2025	2026	2027	2028	2029	10-yr
										ľ	
Fire Ignition Tracking System	2.51	-3	0								0
Distribution Auto DLM	30.53	1,355	750	650	650	650	650	650	650	650	6,686
Substation Auto DLM	0.40	515	1,500	1,500	3,000	4,500	4,500	4,500	4,500	4,500	29,015
WPM Make-Ready for GH (XD007)		15	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	24,015
OE Sponsored GH (XD008)		1									_
WA Dist Grid Hardening (XD005)	1,513.27	7,134	9,000	11,500	12,500	14,700	14,700	14,700	14,700	14,700	115,147
ID Dist Grid Hardening (XD006)	1,601.65	4,714	6,595	6,650	7,650	7,820	7,820	8,400	8,400	8,400	68,051
Distribution Total	\$3,148	\$13,731	\$20,845	\$23,300	\$26,800	\$30,670	\$30,670	\$31,250	\$31,250	\$31,250	\$242,913
T&D CapX Total	\$3,421	\$19,376	\$25,045	\$27,500	\$31,000	\$34,870	\$34,870	\$35,450	\$35,450	\$35,450	\$282,431

In the Howell testimony, forecasted capital expense totaled \$281,880,949. The current cost trend estimate is \$283,431,000. A net difference (increase) of \$1,550,051.

In the Howell testimony, forecasted operating and maintenance expense totaled \$66,606,689. The current cost trend estimate is \$73,300,000. A net difference (increase) of \$6,693,311. The most significant cost trend escalation is reflected in the distribution risk tree program. As part of Wildfire Resiliency, Avista is committed to annual inspection of all distribution lines and removing dead, dying, or diseased trees (hazard trees) within strike distance of overhead powerlines. While this significantly reduces the sparkignition potential between electric lines and vegetation, it does represent a cost driver to the program.

c) Annual balances are provided by capital and O&M category within PC-DR-305 Attachment A. The scope of grid hardening as 3,240 miles out of the 7,650 mile of the Company's overhead distribution system, and the Company has pledged to inspect and remove hazard trees from all transmission and distribution lines. See PC-DR-305 Attachment D (column A) for available unit information for the 2022 planning cycle.

AVISTA'S RESPONSE TO PUBLIC COUNSEL'S DATA REQUEST NO. 305 ATTACHMENT D

David James Rev. 9/20/2022

All Values in \$000's Changes to WF2021 Baselin

	Changes to WF2021 Baseline	Capital						Capital Budge	et Forecast				
		2022 Expected	2020 VE A !	2021 YE									
Unit Estimates provided as part of WA GRC PC-305	System & Transmission	CAPx	2020 YE Actuals	Actuals	2022	2023	2024	2025	2026	2027	2028	2029	10-yr comments and notes
Internal Labor to Develop Computer Algorith (1.5 FTE)	Fire-Weather Dashboard	0	197.75	189 0		•	0	0	0	0			386 2020-2021 Development of FW Dashboard Version 1.0 and 2.0
Removed from WFRES Plan 2021 Maintenance followup. Budget allocation	Conforming Rights-of-Way Transmission Inspection Pgm	0 200	1.27	-	0 200	0 200	200	200	200	200	200	200	0 Removed from plan August 2021. See WFRES 2022 for explanation 1,602 CapX follow-up on Tx aerial and ground patrols related to fire ignition
Maintenance followup. Budget allocation	Transmission mspection rgm	200	1.27	1	200	200	200	200	200	200	200	200	See 2022 WFRES Plan for updated decision matrix on where wood pole will be converted to steel. Will be based on fire history on a go-forward
Transmission Steel Replacement \$45k per structure	Transmssion Steel Conversion	4.000	73.57	5,455	4.000	4.000	4,000	4.000	4.000	4,000	4.000	4.000	
	Transmission Total	\$4,200	\$273	-,	,	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	,	\$39,517
		.,	,	, .	. ,	. ,	. ,	. ,	. ,	. ,	. ,	. ,	
								Capital Budge	et Forecast				
		2022 Expected		2021 YE									
	Electric Distribution	CAPx	2020 YE Actuals	Actuals	2022	2023	2024	2025	2026	2027	2028	2029	10-yr
	Size legiting Tracking Contact	0	2.51	1									OMT work around is allowing tracking for fire-ignition events. Any new development of fire ignition tracking will be paired with the OMS
\$60k per unit. Midline reclosers	Fire Ignition Tracking System Distribution Auto DLM	0 750	2.51 30.53		0 750	650	650	650	650	650	650	650	0 replacement project. 6,686 Replacing midline reclosers with DLM Automation devices.
\$750k per substation. Add SCADA comm and equipment	Substation Auto DLM	1,500	0.40			1,500	3,000	4,500	4,500	4,500	4,500	4,500	29,015
\$16k per mile. Advance 1,500 line miles into 2022-2029	WPM Make-Ready for GH (XD007)	3,000	0.40	15		3,000	3,000	3,000	3,000	3,000	3,000	3,000	
Placeholder	OE Sponsored GH (XD008)	3,000		1	3,000	3,000	3,000	3,000	3,000	3,000	5,000	3,000	- 1,0-5
\$60k per mile.	WA Dist Grid Hardening (XD005)	9,000	1,513.27	7,134	9,000	11,500	12,500	14,700	14,700	14,700	14,700	14,700	115,147
\$60k per mile.	ID Dist Grid Hardening (XD006)	6,595	1,601.65			6,650	7,650	7,820	7,820	8,400	8,400	8,400	
	Distribution Total	\$20,845	\$3,148	\$13,731	\$20,845	\$23,300	\$26,800	\$30,670	\$30,670	\$31,250	\$31,250	\$31,250	\$242,913
	T&D CapX Total	\$25,045	\$3,421	\$19,376	\$25,045	\$27,500	\$31,000	\$34,870	\$34,870	\$35,450	\$35,450	\$35,450	\$282,431
		_											
			Total Grid Hardening:		2000		2004	PLA					
	Distribution	2	2020 act \$3,115	2021 act \$11,848	2022 \$15,595	2023 \$18,150	2024 \$20,150	2025 \$22,520	2026 \$22,520	2027 \$23,100	2028 \$23,100		Totals 183,198
	Grid Hardening Budget Miles Projected at \$60k/mi (forecast)		\$3,113 67	. ,	260	303	336	375	375	385	385	385	105,170
	Cumulative Miles		67		472	775	1,111	1,486	1,861	2,246	2,631	3,016	
	Camalative innes		· ·	220		,,,	-/	2, .00	2,002	2,2.10	2,002	5,010	
		Operating						O&M Budge	t Forecast				
		2022 Expected		2021 YE									
	System & Transmission	0&M	2020 YE Actual	Actual	2022	2023	2024	2025	2026	2027	2028	2029	10-yr
Internal unloaded WF labor 33% (4 FTE)	WFRES Transmission Planning	14/	92	187 0	147	147	147	147	147	147	147	147 75	
Subscription to Weather data service \$400 per mile. 1875 miles non-urban transmission	Fire-Weather Dashboard Digital Data Collection (Geo Digital)	150 750	491	-	150 750	75 750	75 750	75 750	75 750	75 750	75 750	750	675 On going support of FW DB 6,941 Based on \$450mile (GeoDigital)- 2022 is full system
\$90 per pole wrap	Transmission FR Pole Wraps	550	178		550	550	550	550	550	550	550	550	1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 '
\$2k per acre treated	Fuel Reduction Partner	300	2,0	0	300	300	300	300	300	300	300	300	
2021 only	Nox-PC Fire Damage (risk tree)			513									513
\$2000 per hour helicopter resource	Transmission Inspection Pgm	150	137	172	150	150	150	150	150	150	150	150	1,509 Transmission Fire Inspection and O&M followup
	Transmission O&M	\$2,047	\$899	\$1,743	\$2,047	\$1,972	\$1,972	\$1,972	\$1,972	\$1,972	\$1,972	\$1,972	\$18,493
		C	Operating					O&M Budge	t Forecast				
		2022 Expected		2021 YE									
	Floratorio Distribution	O&M	2020 YE Actual	Actual	2022	2022	2024	2025	2026	2027	2020	2020	40
lateral value ded MC Labor C70/ (4 ETC)	Electric Distribution	OQIVI			2022	2023	2024	2025	2026	2027	2028	2029	10-yr 2,854 WFRES Team Labor based on 2021 HC
Internal unloaded WF Labor 67% (4 FTE) \$915 per tree removal	WFRES Distribution Planning WA Dx Risk Tree	5,544	233	269 2,111	294 3,686	294 3,232	3,232	294 2,688	294 2,688	294 2,688	294 2,688	294 2,688	l · · l
\$915 per tree removal	ID Dx Risk Tree	2,856	1,239			1,818	1,818	1,512	1,512	1,512	1,512	1,512	
\$5k per household	Customer Choice RTRP	350	1,233	0,132	350	500	750	750	750	500	300	200	
\$70 per mile	Digital Data Collection (AiDASH)	535	59	-	535	535	535	535	535	535	535	535	, , , , , , , , , , , , , , , , , , , ,
	Distribution O&M	\$9,579	\$1,531		\$6,764	\$6,379	\$6,629	\$5,779	\$5,779	\$5,529	\$5,329	\$5,229	7
										•	•		
	T&D O&M	\$11,626	\$2,430	\$7,602	\$8,811	\$8,351	\$8,601	\$7,751	\$7,751	\$7,501	\$7,301	\$7,201	\$73,300
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PC-DR-305 Attachment D - unit estimates.xlsx