BEFORE THE WASHINGTON

UTILITIES & TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

AVISTA CORPORATION d/b/a AVISTA UTILITIES,

Respondent.

DOCKET NOS. UE-200900 and UG-200901 (Consolidated)

PAUL J. ALVAREZ AND DENNIS STEPHENS

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

EXHIBIT PADS-26

Avista Response to Public Counsel Data Request No. 106

April 21, 2021

AVISTA CORP. RESPONSE TO REQUEST FOR INFORMATION

JURISDICTION:	WASHINGTON	DATE PREPARED:	02/06/2021
CASE NO.:	UE-200900 & UG-200901	WITNESS:	Heather Rosentrater
REQUESTER:	Public Counsel	RESPONDER:	Larry La Bolle
TYPE:	Data Request	DEPT:	Transm Ops/System Planning
REQUEST NO.:	PC - 106	TELEPHONE:	(509) 495-4710
		EMAIL:	larry.labolle@avistacorp.com

SUBJECT: Capital Additions, Test Year (Electric)

REQUEST:

Please refer to Heather L. Rosentrater, Exhibit HLR-11, at 2, which states "Reliability improvements have been quantified that are a direct benefit to the customers in feeders that the GMP has addressed.

The analysis was performed by comparing reliability metrics in years before and after the GMP for all feeders completed through 2018."

- a) Provide a report which counts Avista's outages by cause type (weather, equipment failure, human error, lightning, animals whatever categories Avista uses routinely) for each year from 2015 through 2020.
- b) Provide a copy of the guidelines or other tool Avista instructs grid operators to follow when categorizing outages by cause/completing outage reports.
- c) Provide random samples of 10 outage reports from 2018, 10 outage reports from 2019, and 10 outage reports from 2020.

RESPONSE:

a) Please find the following count of sustained outage events, which does not include outages associated with qualifying major events.

Sub-Reason	2015	2016	2017	2018	2019
Arrester	19	38	48	57	67
Bird	275	237	344	267	274
Capacitor		1	2	3	1
Car Hit Pad	36	51	53	41	36
Car Hit Pole	177	198	201	151	152
Conductor - Primary	69	100	73	74	83
Conductor – Second	104	139	105	92	100
Connector - Primary	45	46	58	72	69
Connector - Second	67	61	74	86	70
Crossarm					
Crossarm-rotten	19	19	17	26	22
Cutout/Fuse	104	82	91	92	95
Dig In	78	74	78	92	59
Elbow	8	7	3	1	4

Fill In		749	740	743	591
Fire	144	132	147	159	119
Forced	39	139	116	148	98
Highside Breaker					5
Highside Fuse		1			
Insulator	28	31	13	30	14
Insulator Pin	12	9	14	19	10
Junctions			2	1	
Lightning	212	123	110	103	184
Lowside					
OCB/Recloser	4	6		5	2
Maint/Upgrade	1767	2676	2081	2211	1835
Other	203	216	238	231	257
Pole Fire	199	72	92	77	68
Pole-rotten	19	17	8	4	14
Primary Splice		1	1		
Protected	4	3	2	3	6
Recloser	1	5	8	2	4
Regulator	9	4	1	1	2
Relay Misoperation	1	1	4		
SEE REMARKS	2	47	56	10	32
Service	52	50	32	46	61
Snow/Ice	569	157	586	218	277
Squirrel	364	236	345	259	262
Switch/Disconnect	5	2	11	4	11
Termination	7	13	12	10	11
Transformer			5		
Transformer - OH	84	75	85	64	69
Transformer UG	52	33	44	58	58
Tree	41	37	24	31	26
Tree Fell	244	266	279	284	373
Tree Growth	80	113	114	97	94
Underground					3
Undetermined	711	655	742	675	596
URD Cable - Primary	88	58	74	58	84
URD Cable - Second	47	55	78	78	89
Weather	86	44	185	129	90
Wildlife Guard			1	1	
Wind	682	117	237	86	539

b) When coding the reasons in the outage management system, Avista's operators learn through on the job training to record reasons and sub-reasons based on root cause. These root causes are determined through field inspection and relayed from the responding line crew(s) to the operator on shift. The root cause is defined as the acting person/place/thing that caused the electrical fault. As such, the root cause is not the protection device that operated, such as a fuse, to stop the fault, unless it can

be determined by inspection to have failed outside its design criteria. The operators' assignments of reasons are reviewed and corrected as needed each month, and the operators are coached accordingly.

c) Please find the subject outage reports for the years requested in PC-DR-106 Attachment A.