

**AVISTA CORP.
RESPONSE TO REQUEST FOR INFORMATION**

JURISDICTION:	WASHINGTON	DATE PREPARED:	06/18/2021
CASE NO.:	UE-200900 & UG-200901	WITNESS:	DiLuciano/La Bolle
REQUESTER:	Public Counsel	RESPONDER:	Larry La Bolle
TYPE:	Data Request	DEPT:	Transm Ops/System Planning
REQUEST NO.:	PC – 368	TELEPHONE:	(509) 495-4710
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SUBJECT: Joint Rebuttal Testimony Exh. JD/LL-1

REQUEST:

Please refer to Avista’s response to Public Counsel Data Request No. 101, subpart (d), which indicates that Avista considers substation equipment to be “overloaded”, and thereby in need of a capacity upgrade, once actual loads reach 80 percent of rated equipment capacity. Identify any U.S. utility of which Avista is aware which considers substation equipment to be “overloaded”, and in need of a capacity upgrade, once actual loads reach 80 percent of rated equipment capacity.

RESPONSE:

Avista has not attempted to survey the industry in that regard; rather, it has focused on its own analysis to best determine what makes the most economic sense for the customer over time. We have noted, however, that Portland General Electric applies the very same 80% standard to its substation Power Transformers and connected equipment, as noted in the standard below.¹

Planning design criteria for PGE’s distribution power transformers requires the transformers not to exceed 80% of their seasonal loading beyond nameplate ratings (LBNR) under normal operation (N-0) during a peak period. Limiting components include the transformer windings, load tap changers, bushings, leads, and voltage regulators. In the event of a transformer related failure or outage (N-1), nearby transformers from either the same or adjacent distribution substations shall be able to pick up the load.

In applying this standard, Portland General Electric cites the same rational expressed by Avista, which is to provide the capacity for safely picking up loads of adjacent substations during contingency operations.

¹ Oregon Public Utilities Commission, Distribution System Planning (DSP) Initial Plan Guidelines. Portland General Electric Baseline Data and System Assessment, 4.1. <https://puc.state.or.us/>