



Valley Electric Association, Inc.

A Touchstone Energy® Cooperative 



**GridLiance West LLC
And
Valley Electric Association**

**Transmission Line Circuit Availability
Performance Report**

2019

**GridLiance West LLC and Valley Electric Association
Transmission Line Circuit Availability Performance Report**

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GridLiance West LLC and Valley Electric Association Transmission Line Circuit Availability Performance Report

A. INTRODUCTION

The 2019 GridLiance West LLC (GLW) and Valley Electric Association (VEA) Transmission Line Circuit Availability Performance Report is developed to provide California Independent System Operator Corporation (CAISO) system availability performance measurements between January 1, 2019 and December 31, 2019. This report is submitted to comply with the maintenance reporting requirements outlined in the Transmission Control Agreement (TCA), California Public Utilities Code 348 and the CAISO Tariff.

VEA became a Participating Transmission Owner (PTO) in the CAISO on January 2nd, 2013. VEA owns and operates 138 kV voltage class transmission line. In 2017, VEA sold its 230 kV voltage class transmission lines to GLW, and GLW became a PTO in the CAISO. These transmission lines are under the CAISO operational control (Note: VEA's 138 kV transmission lines are classified under 115 kV voltage class per the TCA Appendix C defined voltage classes). Neither GLW nor VEA have complete historical transmission outage data prior to GLW or VEA becoming a PTO at CAISO. Collection of outage data for the purposes of Control Charts started from January 1, 2013. For this reporting period, no Control Charts will be provided in this report.

B. APPROACH TO AVAILABILITY PERFORMANCE ANALYSIS

Once GLW and VEA have obtained sufficient annual historical data, that data will be used to develop a base line for Controls Charts. The base line will establish the Availability Measure System used to measure the annual availability performance of all the transmission line circuits in a voltage class and establish the Availability Measure Target for transmission line circuits in a voltage class. The availability performance goals will be jointly established by the CAISO, GLW and VEA and will be chosen as the principal determinant of GLW's and VEA's maintenance effectiveness. The Availability Measure Targets will be phased in over a period of five calendar years beginning on the date VEA became a PTO in accordance with the provisions of the TCA.

Control Charts will include three indices: Annual Average Forced Outage Frequency of all Transmission Line Circuits, Annual Average Accumulated Forced Outage Duration of Only Transmission Line Circuit with Forced Outages and Annual Proportion of the Transmission Line Circuit with No Forced Outages.

All transmission outages will be classified and documented, certain types of outages will be excluded from the data set used in the Control Charts. The excluded outages include:

- Scheduled Outages;
- Outages classified as —Not a Forced Outaged in the Maintenance Procedures;
- Forced Outages caused by events originating outside of GLW's or VEA's system;
- Forced Outages demonstrated to have been caused by earthquakes.

C. PERFORMANCE INDICIATIONS

Not applicable until sufficient data has been collected.

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D. DISCUSSION OF RESULTS

Not applicable until sufficient data has been collected.

E. SUMMARY OF OUTAGE DATA

115 kV Voltage Class

Transmission Owner	Transmission Line ID	Voltage Class	Year	Annual Outage Frequency	Annual Outage Duration Minutes
VEA	AMARGOSA-SANDY	115	2019	2	4,645
VEA	CHARLESTON-THOUSANDAIRE	115	2019	1	1
VEA	GAMEBIRD-PAHRUMP	115	2019	0	0
VEA	GAMEBIRD-SANDY	115	2019	1	447
VEA	GAMEBIRD-THOUSANDAIRE	115	2019	0	0
VEA	LATHROP-BEATTY	115	2019	0	0
VEA	LATHROP-JACKASS FLATS	115	2019	0	0
VEA	LATHROP-VALLEY SWITCH	115	2019	0	0
VEA	PAHRUMP-VISTA	115	2019	0	0
VEA	VALLEY SWITCH-VALLEY	115	2019	1	218
VEA	VISTA-VALLEY SWITCH	115	2019	0	0
VEA	INNOVATION-MERCURY SWITCH	115	2019	0	0
			Totals	5	5,310

230 kV Voltage Class

Transmission Owner	Transmission Line ID	Voltage Class	Year	Annual Outage Frequency	Annual Outage Duration Minutes
GLW	DESERT VIEW-NORTHWEST	230	2019	0	0
GLW	DESERT VIEW-INNOVATION	230	2019	0	0
GLW	INNOVATION-PAHRUMP	230	2019	0	0
GLW	PAHRUMP-SLOAN	230	2019	0	0
GLW	SLOAN-ELDORADO	230	2019	1	72
GLW	SLOAN-MEAD	230	2019	0	0
GLW	PAHRUMP-MEAD	230	2019	3	50
			Totals	4	122

F. CONTROL CHARTS

Neither GLW nor VEA have ten years of complete historical transmission outage data prior to becoming a Participating Transmission Owner at CAISO. Collection of GLW and VEA outage data for the purposes of Availability Control Charts started from January 1, 2013.