



**DesertLink LLC**

**Transmission Line Circuit Availability  
Performance Report**

**2023**



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## 1. Introduction

The 2023 DesertLink Transmission Line Circuit Availability Performance Report is created to provide California Independent System Operator Corporation (CAISO) the system availability performance measures between January 1, 2023 and December 31, 2023. This report is submitted to comply with the maintenance reporting requirements outlined in Appendix C of the Transmission Control Agreement (TCA).

DesertLink is comprised of the Harry Allen – Eldorado 500 kV transmission line (HA-ED) which was energized and placed under operational control by CAISO on August 12, 2020. DesertLink does not have any historical transmission outage data prior to becoming a Participating Transmission Owner (PTO) in CAISO. Collection of outage data for the purposes of Control Charts started from August 12, 2020 for this reporting period. For this reporting period, no Control Charts will be provided in this report.

## 2. Approach to Availability Performance Analysis

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

Future Control Charts are expected to include two indices if DesertLink has only one transmission circuit: Annual Average Forced Outage Frequency of the HA-ED transmission line and Annual Average Accumulated Forced Outage Duration of the HA-ED transmission line. With only one transmission circuit, the Annual Proportion of the Transmission Line Circuit with No Forced Outages will either be 0 or 1 so there is little value in reporting this index until DesertLink obtains additional transmission circuits. As described in Appendix C of the TCA, the duration of a single Forced Outage will be capped at 72 hours for reporting purposes.

All transmission outages will be classified and documented; however, certain types of outages will be excluded from the calculation of the Availability Measures and the Availability Measure Targets. The excluded outages include:

- Scheduled Outages;
- Outages classified as —“Not a Forced Outage” in the Maintenance Procedures;
- Forced Outages caused by events originating outside of DesertLink's system;
- Forced Outages demonstrated to have been caused by earthquakes.



### 3. Performance Indications

Not applicable until sufficient data has been collected.

### 4. Summary of Outage Data

500 kV Voltage Class

Transmission Owner	Transmission Line ID	Voltage Class	Year	Annual Outage Frequency	Annual Outage Duration (Hours)
DesertLink	HA-ED	500kV	2023	1	27.5
			<b>Total</b>	1	27.5

### 5. Control Charts

DesertLink does not have sufficient historical data to develop Control Charts.

### 6. Discussion of Results

The DesertLink transmission system had one Forced Outage in 2023 from 02/27/2023-02/28/2023. An emergency outage was scheduled less than 7 days in advance to repair a failed bus support at the DesertLink (Crystal Fixed Series Capacitor (FSC)) Substation on February 27 and 28. The HA-ED line was out of service for 27.5 hours.