

Southern California Edison

WSD-011 – Resolution implementing the requirements of Public Utilities Code Sections 8389(d)(1), (2) and (4) related to catastrophic wildfire caused by electrical corporations subject to the Commission’s regulatory authority

DATA REQUEST SET W S D - S C E - 0 0 4

To: WSD

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Received Date: 3/12/2021

Response Date: 3/17/2021

Question 010:

Provide a list that ranks all wildfire risks or point to where it is in the Wildfire Mitigation Plan.

Response to Question 010:

SCE interprets this question to request a ranking of risk drivers from highest to lowest risk. Below are the drivers ranked from highest to lowest ignition rates. Drivers without ignitions have been left out for clarity. This analysis does not consider consequences of ignitions.

Category is the major category – Equipment Facility Failure (EFF) or Contact from Foreign Object (CFO), for Transmission (T) or Distribution (D).

Sub-cause category is the reason for the outage.

Average Outage is the average number of outages per year from 2015 through 2020.

Ignition Rate is the average Rate of Ignitions per year calculated from 2015 through 2020.

Adjusted Risk is the product of Average Outage * Ignition Rate.

Ignition Rank is the ranking of adjusted risk.

Category	Sub-cause category	Average Outage 2015-2020	Ignition Rate 2015-2020	Adjusted Risk	Ignition Rank
D-CFO	Balloon contact- Distribution	866	0.0157	13.6000	1
D-CFO	Veg. contact- Distribution	469	0.0227	10.6667	2
D-EFF	Conductor damage or failure Distribution	725	0.0142	10.2667	3
D-CFO	Animal contact- Distribution	644	0.0155	10.0000	4
D-CFO	Vehicle contact- Distribution	550	0.0126	6.9333	5

Category	Sub-cause category	Average Outage 2015-2020	Ignition Rate 2015-2020	Adjusted Risk	Ignition Rank
D-EFF	Unknown - Distribution	2036	0.0031	6.4000	6
D-EFF	Transformer damage or failure - Distribution	2334	0.0017	4.0000	7
D-EFF	Other - Distribution	660	0.0055	3.6000	8
D-CFO	Other contact from object - Distribution	120	0.0278	3.3333	9
D-EFF	Connection device damage or failure - Distribution	450	0.0065	2.9333	10
D-EFF	Wire-to-wire contact / contamination- Distribution	45	0.0627	2.8000	11
D-EFF	All Other- Distribution	2865	0.0007	2.1333	13
D-EFF	Vandalism / Theft - Distribution	87	0.0246	2.1333	13
D-EFF	Insulator and brushing damage or failure - Distribution	89	0.0224	2.0000	14
T-CFO	Animal contact- Transmission	60	0.0223	1.3333	15
D-EFF	Pole damage or failure - Distribution	211	0.0051	1.0667	17
D-EFF	Switch damage or failure- Distribution	58	0.0183	1.0667	17
D-EFF	Lightning arrestor damage or failure- Distribution	125	0.0075	0.9333	18
T-CFO	Balloon contact- Transmission	34	0.0234	0.8000	22
D-EFF	Crossarm damage or failure - Distribution	302	0.0026	0.8000	22
D-EFF	Fuse damage or failure - Distribution	542	0.0015	0.8000	22
T-CFO	Veg. contact- Transmission	10	0.0787	0.8000	22
D-EFF	Contamination - Distribution	1	1.0667	0.5333	24
T-EFF	Unknown - Transmission	270	0.0020	0.5333	24
D-EFF	Capacitor bank damage or failure- Distribution	382	0.0010	0.4000	26
T-CFO	Other contact from object - Transmission	9	0.0471	0.4000	26
T-EFF	Connection device damage or failure - Transmission	1	0.2000	0.2667	28
T-CFO	Vehicle contact- Transmission	29	0.0091	0.2667	28
T-EFF	All Other- Transmission	249	0.0005	0.1333	33
T-EFF	Insulator and brushing damage or failure - Transmission	11	0.0125	0.1333	33
T-EFF	Lightning arrestor damage or failure- Transmission	3	0.0500	0.1333	33
T-EFF	Other - Transmission	23	0.0059	0.1333	33

Category	Sub-cause category	Average Outage 2015-2020	Ignition Rate 2015-2020	Adjusted Risk	Ignition Rank
T-EFF	Vandalism / Theft - Transmission	5	0.0296	0.1333	33