Filing Receipt

Filing Date - 2024-08-30 05:54:24 PM

Control Number - 56822

Item Number - 136

PROJECT NO. 56822

INVESTIGATION OF EMERGENCY PREPAREDNESS AND RESPONSE BY UTILITIES IN HOUSTON AND SURROUNDING COMMUNITIES	§ § § §	**PUBLIC UTILITY COMMISSION OF TEXAS**

RESPONSE OF ENTERGY TEXAS, INC.
TO COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION:
STAFF 1:56 THROUGH 120

Entergy Texas, Inc. ("ETI" or the "Company") files its Response to Commission Staff's First Request for Information. The response to such request is attached and is numbered as in the request. An additional copy is available for inspection at the Company's office in Austin, Texas.

ETI believes the foregoing response is correct and complete as of the time of the response, but the Company will supplement, correct, or complete the response if it becomes aware that the response is no longer true and complete, and the circumstance is such that failure to amend the answer is in substance misleading. The parties may treat this response as if it were filed under oath.

Respectfully submitted,

George G. Hoyt
ENTERGY SERVICES, LLC
919 Congress Avenue, Suite 701
Austin, Texas 78701
P: (512) 487-3945
E: ghoyt90@entergy.com

Attachments: **STAFF 1:56 THROUGH 120**

CERTIFICATE OF SERVICE

I certify that a copy of the foregoing Response of Entergy Texas, Inc. to Commission Staff's First Request for Information has been sent by email to the party that initiated this request in this docket on this the 30th day of August 2024.

George G. Hoyt

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No PI60
	Ending Sequence No. PI60

Question No.: STAFF 1-56 Part No.: Addendum:

Distribution Infrastructure

Question:

Identify all feeders on your distribution system affected by Hurricane Beryl or the May 2024 Derecho and provide the following for each identified feeder in MS Excel format:

a. The quantity and percentage of each installed pole type (e.g., wood, composite, steel, concrete, other) on the feeder before Hurricane Beryl;

b. The quantity and percentage of pole failures, by pole type, due to Hurricane Beryl;

c. Identify the primary cause of failure for each pole type on the feeder (e.g., trees, branches, wind, or other);

d. Identify the primary point of failure of the poles (e.g., crossarm failure, pole leaning, pole break, or other);

e. NESC construction strength and overload factors the feeder is currently built to;

f. Identify which feeders are in your plans to rebuild to a higher wind loading standard; and

g. Provide an estimate for when identified rebuilds will commence.

Response:

Please see the attachments (TP-56822-00PUS001-X056-001) for the May 16, 2024 severe thunderstorm event and the attachment (TP-56822-00PUS001-X056-002) for Hurricane Beryl. Poles located on each of these feeders are built to the applicable standards in effect at the time the pole was installed. Please also refer to the Company's responses to Staff 1-60 and 1-61.

Circuit Name	Concrete	Percent Concrete	Fiberglass	Percent Fiberglass	Steel	Percent Steel	Street Light	Percent Street Light	Wood	Percent Wood
104SL	1	0.1%	0	0.0%	0	0.0%	1	0.1%	819	99.8%
105SL	25	0.9%	0	0.0%	41	1.5%	26	1.0%	2633	96.6%
112MC	3	0.4%	0	0.0%	3	0.4%	11	1.4%	795	97.9%
121EL	3	0.2%	0	0.0%	0	0.0%	47	3.5%	1280	96.2%
127SO	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1389	99.9%
135TG	0	0.0%	0	0.0%	18	7.5%	25	10.4%	197	82.1%
137TG	9	1.3%	0	0.0%	11	1.6%	30	4.5%	618	92.5%
138CI	0	0.0%	0	0.0%	2	0.1%	0	0.0%	2683	99.9%
141LV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1501	100.0%
151RS	1	0.1%	0	0.0%	4	0.6%	29	4.2%	659	95.1%
152RS	0	0.0%	0	0.0%	2	0.6%	5	1.4%	347	98.0%
154BE	0	0.0%	0	0.0%	2	0.1%	0	0.0%	2877	99.9%
155BE	1	0.0%	2	0.1%	29	0.8%	4	0.1%	3727	99.0%
156BE	0	0.0%	0	0.0%	7	0.7%	0	0.0%	1007	99.3%
158HA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2250	100.0%
162VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2121	100.0%
163VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2406	100.0%
166CH	0	0.0%	0	0.0%	1	0.1%	0	0.0%	819	99.9%
17LOB	4	0.4%	0	0.0%	0	0.0%	0	0.0%	1036	99.6%
180AM	0	0.0%	0	0.0%	1	0.1%	2	0.2%	1158	99.7%
182AM	0	0.0%	0	0.0%	7	0.3%	0	0.0%	2091	99.7%
211BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1694	100.0%
238CR	0	0.0%	0	0.0%	2	0.1%	0	0.0%	1519	99.9%
240WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1943	100.0%
251KP	0	0.0%	0	0.0%	10	0.3%	0	0.0%	3745	99.7%
257GV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	437	100.0%
261TR	0	0.0%	0	0.0%	2	0.2%	0	0.0%	804	99.8%
268RV	0	0.0%	0	0.0%	1	0.0%	0	0.0%	3715	100.0%
269RV	0	0.0%	0	0.0%	4	0.1%	0	0.0%	6904	99.9%
26HRN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2340	100.0%
307SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2338	100.0%
308FR	2	0.4%	0	0.0%	11	2.0%	35	6.4%	497	91.2%
30BRC	2	0.1%	1	0.1%	5	0.4%	87	6.1%	1326	93.3%
310SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3298	100.0%
311SP	0	0.0%	0	0.0%	11	0.7%	0	0.0%	1664	99.3%
317TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	751	100.0%
31BRC	0	0.0%	0	0.0%	1	0.2%	31	6.9%	416	92.9%
320AP	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2038	100.0%
324CO	0	0.0%	0	0.0%	37	3.0%	35	2.8%	1181	94.3%
326CO	0	0.0%	0	0.0%	0	0.0%	1	0.1%	1123	99.9%
327CO	0	0.0%	0	0.0%	4	0.4%	1	0.1%	1128	99.6%
32BRC	3	0.3%	1	0.1%	30	2.7%	68	6.2%	996	90.7%
334NC	0	0.0%	6	0.1%	8	0.2%	0	0.0%	4410	99.7%
336NC	0	0.0%	26	2.3%	10	0.9%	0	0.0%	1104	96.8%
342JT	0	0.0%	7	0.6%	0	0.0%	0	0.0%	1185	99.4%
342WN	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1233	99.9%
345JT	0	0.0%	13	0.3%	1	0.0%	0	0.0%	4208	99.7%
346JT	0	0.0%	6	1.2%	0	0.0%	0	0.0%	476	98.8%
350PW	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1577	99.9%
360BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1092	100.0%
363HT	0	0.0%	16	0.8%	12	0.6%	0	0.0%	1934	98.6%
364HT	0	0.0%	5	0.2%	16	0.6%	0	0.0%	2649	99.2%
365HT	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1195	99.9%
380MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4213	100.0%
392WO	0	0.0%	0	0.0%	3	0.5%	1	0.2%	575	99.3%
405CV	0	0.0%	1	0.1%	2	0.1%	8	0.4%	1824	99.4%
406CV	0	0.0%	2	0.1%	0	0.0%	0	0.0%	3541	99.9%
40LNB	6	0.5%	47	4.0%	42	3.6%	24	2.1%	1046	89.8%
425CV	0	0.0%	3	0.0%	10	0.1%	2	0.0%	8842	99.8%
426CV	2	0.0%	0	0.0%	19	0.3%	5	0.1%	7196	99.6%
432KT	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2092	100.0%
436TI	0	0.0%	0	0.0%	5	0.2%	0	0.0%	2622	99.8%
441LU	0	0.0%	7	0.2%	1	0.0%	1	0.0%	3820	99.8%
453KT	0	0.0%	0	0.0%	1	0.1%	1	0.1%	1091	99.8%
457FL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1293	100.0%
461SI	0	0.0%	0	0.0%	10	1.3%	0	0.0%	760	98.7%
462SI	0	0.0%	0	0.0%	2	0.2%	0	0.0%	941	99.8%
471NS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2217	100.0%
472NS	3	0.5%	0	0.0%	1	0.2%	0	0.0%	629	99.4%
474MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	67	100.0%
476MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1343	100.0%
477MD	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2755	100.0%
48TCO	2	0.2%	0	0.0%	39	4.6%	0	0.0%	799	95.1%
490LI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	601	100.0%
4CAL	0	0.0%	13	0.2%	16	0.2%	0	0.0%	6696	99.6%
506WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4039	100.0%
507CN	0	0.0%	1	0.1%	1	0.1%	5	0.3%	1483	99.5%
511CN	0	0.0%	0	0.0%	1	0.1%	0	0.0%	669	99.9%
513CN	0	0.0%	4	0.3%	0	0.0%	2	0.2%	1268	99.5%
519DO	0	0.0%	2	0.1%	1	0.0%	0	0.0%	2283	99.9%
520BW	0	0.0%	2	0.1%	15	0.6%	1	0.0%	2324	99.2%
521BW	6	0.8%	0	0.0%	3	0.4%	0	0.0%	750	98.8%
536SH	0	0.0%	1	0.1%	19	1.4%	0	0.0%	1382	98.6%
537LA	0	0.0%	3	0.1%	1	0.0%	0	0.0%	2502	99.8%
539LA	0	0.0%	1	0.1%	2	0.2%	0	0.0%	1234	99.8%
53BAT	1	0.0%	0	0.0%	2	0.1%	0	0.0%	2712	99.9%
545PL	0	0.0%	0	0.0%	17	1.9%	0	0.0%	858	98.1%
546PL	0	0.0%	0	0.0%	11	6.2%	0	0.0%	166	93.8%
549JT	0	0.0%	6	0.2%	4	0.2%	0	0.0%	2465	99.6%
551EP	0	0.0%	0	0.0%	9	0.7%	0	0.0%	1300	99.3%
552EP	0	0.0%	29	3.7%	0	0.0%	0	0.0%	757	96.3%
563WD	0	0.0%	0	0.0%	20	11.5%	0	0.0%	154	88.5%
566CR	0	0.0%	3	0.1%	6	0.2%	2	0.1%	3392	99.7%
568DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1704	100.0%
570CR	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2451	100.0%
570DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3118	100.0%
577CN	1	0.1%	14	0.8%	7	0.4%	0	0.0%	1721	98.7%
592WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	6689	100.0%
593WD	0	0.0%	0	0.0%	1	0.1%	1	0.1%	814	99.8%
594WD	0	0.0%	0	0.0%	0	0.0%	3	0.2%	1965	99.8%
598TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1596	100.0%
600HU	0	0.0%	0	0.0%	4	0.1%	0	0.0%	4336	99.9%
607HU	0	0.0%	0	0.0%	2	0.2%	0	0.0%	1185	99.8%
608HU	0	0.0%	4	0.4%	3	0.3%	0	0.0%	1081	99.4%
611HU	0	0.0%	0	0.0%	7	0.6%	0	0.0%	1247	99.4%
628TE	22	1.9%	0	0.0%	3	0.3%	0	0.0%	1120	97.8%
634WT	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1606	99.9%
654VT	0	0.0%	3	0.7%	0	0.0%	0	0.0%	420	99.3%
657VT	9	3.9%	0	0.0%	2	0.9%	0	0.0%	219	95.2%
670GE	0	0.0%	0	0.0%	1	0.0%	0	0.0%	3177	100.0%
711MG	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1958	100.0%
723DY	0	0.0%	0	0.0%	0	0.0%	5	0.4%	1401	99.6%
724DY	1	0.0%	1	0.0%	7	0.3%	13	0.6%	2316	99.1%
727DY	0	0.0%	0	0.0%	3	0.4%	1	0.1%	674	99.4%
72ECH	1	0.1%	0	0.0%	0	0.0%	0	0.0%	711	99.9%
736CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	522	100.0%
738CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1703	100.0%
740OK	0	0.0%	4	0.3%	2	0.1%	0	0.0%	1407	99.6%
741DA	0	0.0%	0	0.0%	0	0.0%	1	0.2%	457	99.8%
742OK	0	0.0%	0	0.0%	45	28.3%	0	0.0%	114	71.7%
743DA	37	3.3%	0	0.0%	1	0.1%	0	0.0%	1080	96.6%
744DA	16	0.9%	0	0.0%	9	0.5%	1	0.1%	1746	98.5%
750FO	7	0.8%	2	0.2%	3	0.4%	0	0.0%	832	98.6%
753FO	2	0.4%	0	0.0%	1	0.2%	0	0.0%	471	99.4%
75RAY	1	0.1%	0	0.0%	2	0.2%	0	0.0%	1016	99.7%
761SA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1383	100.0%
762AL	0	0.0%	14	2.6%	4	0.7%	1	0.2%	528	96.5%
763AL	1	2.8%	0	0.0%	0	0.0%	0	0.0%	35	97.2%
768AL	0	0.0%	0	0.0%	1	0.8%	0	0.0%	121	99.2%
781EG	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2405	100.0%
806PD	0	0.0%	3	0.1%	20	0.4%	1	0.0%	5213	99.5%
809PD	0	0.0%	0	0.0%	2	0.0%	0	0.0%	4909	100.0%
883GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2574	100.0%
904NA	1	0.1%	2	0.1%	7	0.5%	20	1.4%	1428	97.9%
905NA	3	0.1%	0	0.0%	23	0.5%	13	0.3%	4964	99.2%
90MPL	0	0.0%	0	0.0%	0	0.0%	1	0.2%	444	99.8%
917SW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	114	100.0%
920DO	0	0.0%	0	0.0%	5	0.1%	0	0.0%	6075	99.9%
92CHI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2640	100.0%
945ID	0	0.0%	0	0.0%	0	0.0%	0	0.0%	80	100.0%
949IN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	23	100.0%
969NA	5	0.3%	10	0.6%	37	2.1%	3	0.2%	1718	96.9%
981GR	0	0.0%	0	0.0%	6	0.7%	0	0.0%	902	99.3%
982GR	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2677	100.0%
88WED	77	8.0%	3	0.3%	19	2.0%	2	0.2%	861	89.5%
176PR	9	3.8%	0	0.0%	5	2.1%	21	8.8%	204	85.4%
35HDN	3	0.2%	0	0.0%	0	0.0%	0	0.0%	1896	99.8%
682VI	0	0.0%	0	0.0%	4	0.2%	8	0.3%	2431	99.5%
352ON	1	0.1%	0	0.0%	15	2.1%	6	0.8%	689	96.9%
362BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1252	100.0%
681VI	0	0.0%	0	0.0%	7	0.6%	0	0.0%	1091	99.4%
18LOB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	811	100.0%
479MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1442	100.0%
233ST	0	0.0%	0	0.0%	12	0.5%	0	0.0%	2270	99.5%

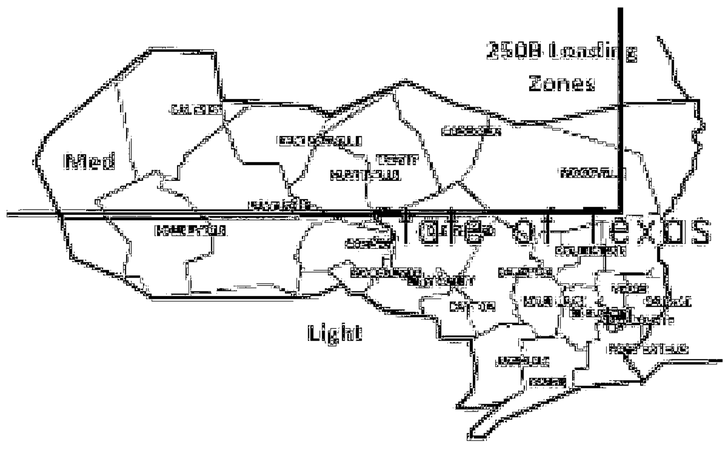
Circuit Name	Concrete	Concrete Percent Failure	Fiberglass	Fiberglass Percent Failure	Steel	Steel Percent Failure	Street Light	Percent Street Light Failure	Wood	Wood Percent Failure
104SL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
105SL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
112MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
121EL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
127SO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
135TG	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
137TG	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
138CI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
141LV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
151RS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
152RS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
154BE	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
155BE	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
156BE	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
158HA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
162VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
163VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
166CH	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
17LOB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
180AM	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
182AM	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
211BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
238CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
240WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
251KP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
257GV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
261TR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
268RV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
269RV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
26HRN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
307SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
308FR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
30BRC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
310SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
311SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
317TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
31BRC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
320AP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
324CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
326CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
327CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
32BRC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
334NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%
336NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
342JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
342WN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
345JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
346JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
350PW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
360BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
363HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
364HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
365HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
380MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
392WO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
405CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
406CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
40LNB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
425CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
426CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
432KT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%
436TI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
441LU	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
453KT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	0.2%
457FL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
461SI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
462SI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	0.3%
471NS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	0.2%
472NS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
474MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
476MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
477MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	0.2%
48TCO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
490LI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
4CAL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
506WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
507CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
511CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
513CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
519DO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
520BW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
521BW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
536SH	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
537LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
539LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
53BAT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	0.1%
545PL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
546PL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
549JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
551EP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
552EP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
563WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
566CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
568DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
570CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
570DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
577CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
592WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
593WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
594WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
598TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
600HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
607HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
608HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
611HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
628TE	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
634WT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
654VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
657VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
670GE	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
711MG	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
723DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
724DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%
727DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
72ECH	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
736CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
738CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
740OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
741DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
742OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
743DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
744DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
750FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
753FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
75RAY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
761SA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	0.4%
762AL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
763AL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
768AL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
781EG	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
806PD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
809PD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
883GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
904NA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
905NA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
90MPL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
917SW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
920DO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	0.0%
92CHI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
945ID	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
949IN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
969NA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
981GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
982GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	0.1%
88WED	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
176PR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.4%
35HDN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
682VI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%
352ON	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
362BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
681VI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
18LOB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	0.4%
479MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%
233ST	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	0.1%

Circuit Name	Concrete	Concrete Failure Cause	Fiberglass	Fiberglass Failure Cause	Steel	Steel Failure Cause	Street Light	Street Light Failure Cause	Wood	Cause and Point of Failure (where available)
104SL	0	None	0	None	0	None	0	None	1	Equipment Failure- Equipment Failure - Pole
105SL	0	None	0	None	0	None	0	None	0	Equipment Failure- Equipment Failure - Crossarm
112MC	0	None	0	None	0	None	0	None	0	Lightning- Lightning
121EL	0	None	0	None	0	None	0	None	0	Vegetation- Tree/Limb Growing Inside R.O.W.
127SO	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
135TG	0	None	0	None	0	None	0	None	0	Animal- Squirrel
137TG	0	None	0	None	0	None	0	None	0	Lightning- Lightning
138CI	0	None	0	None	0	None	0	None	0	Lightning- Lightning
141LV	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
151RS	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
152RS	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
154BE	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
155BE	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
156BE	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
158HA	0	None	0	None	0	None	0	None	0	Lightning- Lightning
162VD	0	None	0	None	0	None	0	None	0	Lightning- Lightning
163VD	0	None	0	None	0	None	0	None	0	Equipment Failure-Primary Conductor
166CH	0	None	0	None	0	None	0	None	0	Lightning- Lightning
17LOB	0	None	0	None	0	None	0	None	1	Transmission/Substation- Transmission Other (Describe in remarks)
180AM	0	None	0	None	0	None	0	None	1	Lightning- Lightning
182AM	0	None	0	None	0	None	0	None	0	Lightning- Lightning
211BA	0	None	0	None	0	None	0	None	0	Equipment Failure- Slack Conductor / Inadequate Phase Spacing
238CR	0	None	0	None	0	None	0	None	0	Lightning- Lightning
240WS	0	None	0	None	0	None	0	None	0	Lightning- Lightning
251KP	0	None	0	None	0	None	0	None	0	Lightning- Lightning
257GV	0	None	0	None	0	None	0	None	0	Vegetation- Tree/Limb Growing Inside R.O.W.
261TR	0	None	0	None	0	None	0	None	0	Lightning- Lightning
268RV	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
269RV	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
26HRN	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
307SP	0	None	0	None	0	None	0	None	0	Lightning- Lightning
308FR	0	None	0	None	0	None	0	None	0	Other- Inspected Unknown
30BRC	0	None	0	None	0	None	0	None	0	Lightning- Lightning
310SP	0	None	0	None	0	None	0	None	0	Vegetation- Tree/Limb Growing Inside R.O.W.
311SP	0	None	0	None	0	None	0	None	0	Lightning- Lightning
317TA	0	None	0	None	0	None	0	None	1	Vegetation- Tree On Line Outside R.O.W.
31BRC	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
320AP	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
324CO	0	None	0	None	0	None	0	None	0	Lightning- Lightning
326CO	0	None	0	None	0	None	0	None	0	Lightning- Lightning
327CO	0	None	0	None	0	None	0	None	0	Lightning- Lightning
32BRC	0	None	0	None	0	None	0	None	0	Lightning- Lightning
334NC	0	None	0	None	0	None	0	None	1	Lightning-Lightning
336NC	0	None	0	None	0	None	0	None	0	Lightning- Lightning
342JT	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
342WN	0	None	0	None	0	None	0	None	0	Lightning- Lightning
345JT	0	None	0	None	0	None	0	None	0	Lightning- Lightning
346JT	0	None	0	None	0	None	0	None	0	Lightning- Lightning
350PW	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
360BD	0	None	0	None	0	None	0	None	0	Lightning- Lightning
363HT	0	None	0	None	0	None	0	None	0	Lightning- Lightning
364HT	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
365HT	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
380MC	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
392WO	0	None	0	None	0	None	0	None	0	Lightning- Lightning
405CV	0	None	0	None	0	None	0	None	0	Lightning- Lightning
406CV	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
40LNB	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
425CV	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
426CV	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
432KT	0	None	0	None	0	None	0	None	1	Vegetation- Tree On Line Outside R.O.W.
436TI	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
441LU	0	None	0	None	0	None	0	None	0	Equipment Failure-Primary Conductor
453KT	0	None	0	None	0	None	0	None	2	Vegetation- Tree On Line Outside R.O.W.
457FL	0	None	0	None	0	None	0	None	0	Lightning- Lightning
461SI	0	None	0	None	0	None	0	None	1	Lightning- Lightning
462SI	0	None	0	None	0	None	0	None	3	Vegetation- Tree On Line Outside R.O.W.
471NS	0	None	0	None	0	None	0	None	5	Vegetation- Tree On Line Outside R.O.W.
472NS	0	None	0	None	0	None	0	None	0	Transmission/Substation- Unknown - Under Investigation
474MD	0	None	0	None	0	None	0	None	0	Transmission/Substation-Transmission Line Out
476MD	0	None	0	None	0	None	0	None	1	Vegetation- Tree on Line from Inside R.O.W
477MD	0	None	0	None	0	None	0	None	5	Vegetation- Tree On Line Outside R.O.W.
48TCO	0	None	0	None	0	None	0	None	0	Transmission/Substation-Transmission Line Out
490LI	0	None	0	None	0	None	0	None	0	Transmission/Substation-Transmission Line Out
4CAL	0	None	0	None	0	None	0	None	0	Equipment Failure- Equipment Failure - Transformer
506WR	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
507CN	0	None	0	None	0	None	0	None	0	Lightning- Lightning
511CN	0	None	0	None	0	None	0	None	1	Lightning- Lightning
513CN	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
519DO	0	None	0	None	0	None	0	None	0	Animal- Squirrel
520BW	0	None	0	None	0	None	0	None	0	Customer- Foreign Trouble - Customer Equipment
521BW	0	None	0	None	0	None	0	None	1	Vegetation- Overhanging Limb
536SH	0	None	0	None	0	None	0	None	0	Lightning- Lightning
537LA	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
539LA	0	None	0	None	0	None	0	None	0	Vegetation- Tree/Limb Growing Inside R.O.W.
53BAT	0	None	0	None	0	None	0	None	4	Transmission/Substation-Transmission Line Out
545PL	0	None	0	None	0	None	0	None	0	Equipment Failure- Equipment Failure - Crossarm
546PL	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
549JT	0	None	0	None	0	None	0	None	0	Equipment Failure- Equipment Failure - Transformer
551EP	0	None	0	None	0	None	0	None	0	Lightning- Lightning
552EP	0	None	0	None	0	None	0	None	0	Equipment Failure-Primary Conductor
563WD	0	None	0	None	0	None	0	None	0	Transmission/Substation- Customer Equipment
566CR	0	None	0	None	0	None	0	None	0	Transmission/Substation-Transmission Line Out
568DC	0	None	0	None	0	None	0	None	0	Lightning- Lightning
570CR	0	None	0	None	0	None	0	None	0	Transmission/Substation-Transmission Line Out
570DC	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
577CN	0	None	0	None	0	None	0	None	0	Vegetation- Vine Growing into Line
592WR	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
593WD	0	None	0	None	0	None	0	None	0	Lightning- Lightning
594WD	0	None	0	None	0	None	0	None	0	Lightning- Lightning
598TA	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
600HU	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
607HU	0	None	0	None	0	None	0	None	0	Lightning- Lightning
608HU	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
611HU	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
628TE	0	None	0	None	0	None	0	None	0	Lightning- Lightning
634WT	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
654VT	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
657VT	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
670GE	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
711MG	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
723DY	0	None	0	None	0	None	0	None	0	Lightning- Lightning
724DY	0	None	0	None	0	None	0	None	1	Vegetation- Tree On Line Outside R.O.W.
727DY	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
72ECH	0	None	0	None	0	None	0	None	0	Lightning- Lightning
736CY	0	None	0	None	0	None	0	None	0	Vegetation- Tree/Limb Growing Inside R.O.W.
738CY	0	None	0	None	0	None	0	None	0	Vegetation- Tree/Limb Growing Inside R.O.W.
740OK	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
741DA	0	None	0	None	0	None	0	None	0	Lightning- Lightning
742OK	0	None	0	None	0	None	0	None	0	Equipment Failure- Equipment Failure - Fuse Switch
743DA	0	None	0	None	0	None	0	None	1	Vegetation- Tree On Line Outside R.O.W.
744DA	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
750FO	0	None	0	None	0	None	0	None	0	Lightning- Lightning
753FO	0	None	0	None	0	None	0	None	0	Lightning- Lightning
75RAY	0	None	0	None	0	None	0	None	0	Lightning- Lightning
761SA	0	None	0	None	0	None	0	None	5	Transmission/Substation- Transmission Line Out
762AL	0	None	0	None	0	None	0	None	0	Lightning- Lightning
763AL	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
768AL	0	None	0	None	0	None	0	None	0	Lightning- Lightning
781EG	0	None	0	None	0	None	0	None	0	Lightning- Lightning
806PD	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
809PD	0	None	0	None	0	None	0	None	0	Lightning- Lightning
883GR	0	None	0	None	0	None	0	None	0	Lightning- Lightning
904NA	0	None	0	None	0	None	0	None	0	Vegetation- Tree/Limb Growing Inside R.O.W.
905NA	0	None	0	None	0	None	0	None	0	Lightning-Lightning
90MPL	0	None	0	None	0	None	0	None	0	Lightning- Lightning
917SW	0	None	0	None	0	None	0	None	0	Lightning- Exceeds equipment design capability
920DO	0	None	0	None	0	None	0	None	2	Vegetation- Tree On Line Outside R.O.W.
92CHI	0	None	0	None	0	None	0	None	0	Vegetation- Overhanging Limb
945ID	0	None	0	None	0	None	0	None	0	Transmission/Substation- Transmission Line Out
949IN	0	None	0	None	0	None	0	None	0	Transmission/Substation- Transmission Business Unit (Describe in remarks)
969NA	0	None	0	None	0	None	0	None	0	Lightning- Lightning
981GR	0	None	0	None	0	None	0	None	0	Vegetation- Tree On Line Outside R.O.W.
982GR	0	None	0	None	0	None	0	None	4	Vegetation- Tree On Line Outside R.O.W.
88WED	0	None	0	None	0	None	0	None	1	Equipment Failure- Equipment Failure - Pole
176PR	0	None	0	None	0	None	0	None	1	Equipment Failure- Equipment Failure - Pole
35HDN	0	None	0	None	0	None	0	None	1	Equipment Failure- BROKEN 35' LIFT POLE
682VI	0	None	0	None	0	None	0	None	1	Vegetation- Tree/Limb Growing Inside R.O.W.
352ON	0	None	0	None	0	None	0	None	1	Vegetation- Tree On Line Outside R.O.W.
362BD	0	None	0	None	0	None	0	None	1	Equipment Failure- BROKEN 35' LIFT POLE
681VI	0	None	0	None	0	None	0	None	1	Equipment Failure- Equipment Failure - Pole
18LOB	0	None	0	None	0	None	0	None	3	Equipment Failure- BROKEN 35' LIFT POLE
479MD	0	None	0	None	0	None	0	None	1	Equipment Failure- Equipment Failure - Pole
233ST	0	None	0	None	0	None	0	None	2	Equipment Failure- Equipment Failure - Pole

NESC 250B Entergy Texas' ("ETI") territory is both within the Medium and Light Loading Zones of the NESC 250B rules (see below map).

NESC 250C From the adoption of Entergy's new Extreme Wind Standard, new distribution construction is built to Entergy's Extreme Wind Speed standards.

Circuit Name	Entergy's Extreme Wind Speed (mph)
100BL	150
101BL	150
102CD	140
102LA	125
103CD	140
104CD	140
104SL	125
105CD	140
105SL	125
106HM	140
107HM	125
108HM	140
110MC	125
111MC	125
111WS	140
112MC	125
112WS	140
113MC	125
113WS	140
119RB	150
11TRV	125
120EL	125
121EL	125
122EL	125
123EL	125
126SO	100
127SO	100
129VI	125
12FTW	140
130CE	140
130VI	125
131CE	140
131VI	125
132CE	140
132VI	125
133CE	140
134TG	125
135TG	125
136TG	125
137TG	125
138CI	100
13TRV	125
141LV	125
142LV	140
14TRV	125
150RS	125
151RS	125
152RS	125
153RS	125
154BE	125
155BE	125
156BE	125
157HA	125
158HA	125
159CH	125
15LCN	125
15WWK	140
160CH	125
161VD	125
162VD	125
163VD	125
164VD	125
165CH	125
166CH	125
16LCN	125
171PR	125
176PR	125
17LOB	125
180AM	125
181AM	125
182AM	125
184PS	125
185PS	125
18LOB	125
18WWK	140
193NE	125
194NE	125
195CR	125
197NE	125
198CR	125
201SD	150
202SD	150
204TB	140
205TB	140
206TB	140
207TB	140
211BA	140
212BA	140
213BA	140
21NOE	125
226HI	150
227HI	150
228HI	150
22HKS	140
22YAN	125
231ST	140
232ST	140
233ST	140
238CR	110
239CR	110
23HKS	140
23YAN	125
240WS	140
241WS	140
24HKS	140
24YAN	125
250BY	140
251KP	100
257GV	100
25HKS	140
25YAN	125
261TR	100
262TR	100
268RV	100
269RV	100
26HRN	100
26NOE	125
270BC	125
27NOE	125
280ML	140
281ML	140
28HRN	100
28NOE	125
29NOE	125
304NC	110
307FR	125
307SP	125
308FR	125
308SP	110
309SP	125
30BRC	125
310FR	125
310SP	125
311SP	110
316TA	110
317TA	110
31BRC	125
320AP	110
321AP	110
324CO	125
325CO	125
326CO	125
327CO	125
32BRC	125
330AD	125
331AD	125
332AD	125
333NC	110
334NC	125
335NC	110
336NC	110
337NC	110
338NC	110
33BRC	125



340WN	125
341WN	125
342JT	110
342WN	125
343JT	110
345JT	110
345OI	125
346JT	110
34KOL	140
350ON	125
350PW	125
351ON	125
351PW	125
352ON	125
35HDN	125
35KOL	140
360BD	125
360HT	110
361BD	125
361HT	110
362BD	125
362HT	110
363BD	125
363HT	110
364HT	110
365HT	110
36KOL	140
36TSC	100
374MR	125
375MR	125
37KOL	140
37TYR	125
380MC	125
381MC	125
382MC	125
38TYR	125
392WO	125
393WO	125
403CV	125
404CV	125
405CV	125
406CV	125
40LNB	125
41LNB	125
425CV	110
426CV	110
42LNB	125
430TI	125
432KT	125
433TI	125
435KT	125
436TI	125
437TI	125
43LNB	125
441LU	125
451KT	125
452KT	125
453KT	125
456FL	125
457FL	125
45PTN	140
461SI	125
462SI	125
463SI	125
46PTN	140
471NS	125
472NS	125
476MD	125
477MD	125
478MD	125
479MD	125
48TCO	125
490LI	125
491LI	125
4CAL	100
504CN	110
505CN	110
506CN	110
506WR	110
507CN	110
50FTW	140
511CN	110
512CN	110
513CN	110
514CN	110
515CN	110
516CN	110
519DO	110
51FTW	140
520BW	110
521BW	110
522BW	110
525PA	110
528CM	110
529CM	110
52FTW	140
530CM	110
535SH	110
536SH	110
537LA	110
538LA	110
539LA	110
53BAT	125
540LA	110
544JT	110
545PL	110
546PL	110
549JT	110
54FTW	140
550EP	110
551EP	110
552EP	110
55FTW	110
560WD	110
562WD	110
563WD	110
564WD	110
566CR	110
567CR	110
567FT	150
568DC	110
569DC	110
570CR	110
570DC	110
572CN	110
573CN	110
574CN	110
575CN	110
576CN	110
577CN	110
580LM	110
581LM	110
582LM	110
583LM	110
584LM	110
585LM	110
590AP	110
591AP	110
592AP	110
592WR	110
593WD	110
594WD	110
598TA	110
599TA	110
59GRO	140
600HU	100
607HU	100
608HU	100
609HU	100
60CRK	125
610HU	100
611HU	100
61CRK	125
61GRO	140
627TE	100
628TE	100
62GRO	140
632WT	100

633WT	100
634WT	100
63CRK	125
63GRO	140
64CRK	125
650VT	100
651VT	100
652VT	100
653VT	100
654VT	100
655VT	100
657VT	100
65CRK	125
65MAN	140
66MAN	140
670GE	100
671MA	125
673MA	125
674MA	125
67MAN	140
67PTA	140
681GR	100
681VI	125
682GR	100
682Vi	125
68PTA	140
698CE	100
69PTA	140
6CAL	100
701GL	110
702GL	110
703GL	110
704GL	110
705GL	110
706GL	110
707GL	110
708GL	110
709GL	110
70ECH	125
70PAS	140
710GL	110
711MG	125
714SL	125
715ME	110
716ME	110
717ME	110
718ME	110
719ME	110
71ECH	125
720ME	110
721ME	110
722ME	110
723DY	125
723ME	110
724DY	125
724ME	110
725DY	125
726DY	125
727DY	125
72ECH	125
731SN	125
733SN	125
736CY	125
737CY	125
738CY	125
739CY	125
73ECH	125
73RAY	125
740OK	110
741DA	125
741OK	110
742OK	110
743DA	125
743OK	110
744DA	125
744OK	110
745OK	110
74RAY	125
750FO	110
751FO	110
752FO	110
753FO	110
754FO	110
755FO	110
756FO	110
757FO	110
758FO	110
759FO	110
75JRU	125
75RAY	125
761SA	125
762AL	110
763AL	110
764AL	110
765AL	110
766AL	110
767AL	110
768AL	110
769AL	110
76JRU	125
770AL	110
771AL	110
77JRU	125
781EG	125
782PW	125
78JRU	125
7FTW	140
801FE	140
806PD	100
808PD	100
809PD	100
80LAV	140
80WED	125
810PD	100
819MD	100
81LAV	140
82WED	125
84DQN	140
85DQN	140
85WED	125
86WED	125
87DQN	140
87WED	125
883GR	100
88WED	125
8TRV	125
904NA	100
905NA	100
90MPL	125
90STG	140
9175W	100
91MPL	125
91STG	140
920DO	100
92CHI	125
92STG	140
93CHI	125
93STG	140
945ID	100
969NA	100
981GR	100
982GR	100
98SPU	140
99FTW	140
99SPU	140
88WED	125
176PR	125
35HDN	125
682VI	125
352ON	125
362BD	125
681VI	125
18LOB	125
479MD	125
233ST	140

Circuit Name	Future Projects	Estimate Year
104SL	ETI's Comprehensive Hardening Projects	2032
105SL	ETI's Comprehensive Hardening Projects	2026
112MC	ETI's Comprehensive Hardening Projects	2029
121EL	ETI's Comprehensive Hardening Projects	2033
127SO	ETI's Comprehensive Hardening Projects	2029
135TG	-	TBD
137TG	ETI's Comprehensive Hardening Projects	2032
138CI	ETI's Comprehensive Hardening Projects	2031
141LV	ETI's Comprehensive Hardening Projects	2033
151RS	ETI's Comprehensive Hardening Projects	2034
152RS	ETI's Comprehensive Hardening Projects	2032
154BE	ETI's Comprehensive Hardening Projects	2025
155BE	ETI's Comprehensive Hardening Projects	2029
156BE	ETI's Comprehensive Hardening Projects	2030
158HA	ETI's Comprehensive Hardening Projects	2029
162VD	ETI's Comprehensive Hardening Projects	2030
163VD	ETI's Comprehensive Hardening Projects	2033
166CH	ETI's Comprehensive Hardening Projects	2029
17LOB	ETI's Comprehensive Hardening Projects	2032
180AM	ETI's Comprehensive Hardening Projects	2034
182AM	ETI's Comprehensive Hardening Projects	2029
211BA	ETI's Comprehensive Hardening Projects	2028
238CR	ETI's Comprehensive Hardening Projects	2033
240WS	ETI's Comprehensive Hardening Projects	2032
251KP	ETI's Comprehensive Hardening Projects	2029
257GV	-	TBD
261TR	ETI's Comprehensive Hardening Projects	2031
268RV	ETI's Comprehensive Hardening Projects	2028
269RV	ETI's Comprehensive Hardening Projects	2033
26HRN	ETI's Comprehensive Hardening Projects	2029
307SP	ETI's Comprehensive Hardening Projects	2029
308FR	ETI's Comprehensive Hardening Projects	2029
30BRC	ETI's Comprehensive Hardening Projects	2033
310SP	ETI's Comprehensive Hardening Projects	2027
311SP	ETI's Comprehensive Hardening Projects	2031
317TA	ETI's Comprehensive Hardening Projects	2029
31BRC	ETI's Comprehensive Hardening Projects	2034
320AP	ETI's Comprehensive Hardening Projects	2029
324CO	ETI's Comprehensive Hardening Projects	2031
326CO	ETI's Comprehensive Hardening Projects	2028
327CO	ETI's Comprehensive Hardening Projects	2032
32BRC	ETI's Comprehensive Hardening Projects	2028
334NC	ETI's Comprehensive Hardening Projects	2026
336NC	ETI's Comprehensive Hardening Projects	2025
342JT	ETI's Comprehensive Hardening Projects	2028
342WN	ETI's Comprehensive Hardening Projects	2033
345JT	ETI's Comprehensive Hardening Projects	2029
346JT	-	TBD
350PW	ETI's Comprehensive Hardening Projects	2029
360BD	ETI's Comprehensive Hardening Projects	2028
363HT	ETI's Comprehensive Hardening Projects	2031
364HT	ETI's Comprehensive Hardening Projects	2027
365HT	ETI's Comprehensive Hardening Projects	2029
380MC	ETI's Comprehensive Hardening Projects	2027
392WO	ETI's Comprehensive Hardening Projects	2032
405CV	ETI's Comprehensive Hardening Projects	2029
406CV	ETI's Comprehensive Hardening Projects	2025
40LNB	ETI's Comprehensive Hardening Projects	2031
425CV	ETI's Comprehensive Hardening Projects	2027
426CV	ETI's Comprehensive Hardening Projects	2028
432KT	ETI's Comprehensive Hardening Projects	2032
436TI	-	TBD
441LU	ETI's Comprehensive Hardening Projects	2033
453KT	ETI's Comprehensive Hardening Projects	2033
457FL	ETI's Comprehensive Hardening Projects	2031
461SI	ETI's Comprehensive Hardening Projects	2029
462SI	ETI's Comprehensive Hardening Projects	2033
471NS	ETI's Comprehensive Hardening Projects	2033
472NS	ETI's Comprehensive Hardening Projects	2034
474MD	-	TBD
476MD	ETI's Comprehensive Hardening Projects	2029
477MD	ETI's Comprehensive Hardening Projects	2033
48TCO	ETI's Comprehensive Hardening Projects	2033
490LI	ETI's Comprehensive Hardening Projects	2033
4CAL	ETI's Comprehensive Hardening Projects	2033
506WR	ETI's Comprehensive Hardening Projects	2033
507CN	ETI's Comprehensive Hardening Projects	2027
511CN	ETI's Comprehensive Hardening Projects	2026
513CN	ETI's Comprehensive Hardening Projects	2025
519DO	ETI's Comprehensive Hardening Projects	2026
520BW	ETI's Comprehensive Hardening Projects	2029
521BW	ETI's Comprehensive Hardening Projects	2030
536SH	ETI's Comprehensive Hardening Projects	2031
537LA	ETI's Comprehensive Hardening Projects	2029
539LA	ETI's Comprehensive Hardening Projects	2033
53BAT	ETI's Comprehensive Hardening Projects	2025
545PL	ETI's Comprehensive Hardening Projects	2031
546PL	ETI's Comprehensive Hardening Projects	2034
549JT	-	TBD
551EP	ETI's Comprehensive Hardening Projects	2028
552EP	ETI's Comprehensive Hardening Projects	2029
563WD	ETI's Comprehensive Hardening Projects	2026
566CR	ETI's Comprehensive Hardening Projects	2031
568DC	ETI's Comprehensive Hardening Projects	2033
570CR	ETI's Comprehensive Hardening Projects	2028
570DC	ETI's Comprehensive Hardening Projects	2033
577CN	ETI's Comprehensive Hardening Projects	2025
592WR	ETI's Comprehensive Hardening Projects	2031
593WD	ETI's Comprehensive Hardening Projects	2034
594WD	ETI's Comprehensive Hardening Projects	2033
598TA	ETI's Comprehensive Hardening Projects	2031
600HU	ETI's Comprehensive Hardening Projects	2029
607HU	ETI's Comprehensive Hardening Projects	2031
608HU	ETI's Comprehensive Hardening Projects	2029
611HU	ETI's Comprehensive Hardening Projects	2032
628TE	ETI's Comprehensive Hardening Projects	2031
634WT	ETI's Comprehensive Hardening Projects	2027
654VT	-	TBD
657VT	-	TBD
670GE	ETI's Comprehensive Hardening Projects	2029
711MG	ETI's Comprehensive Hardening Projects	2029
723DY	ETI's Comprehensive Hardening Projects	2029
724DY	ETI's Comprehensive Hardening Projects	2030
727DY	ETI's Comprehensive Hardening Projects	2026
72ECH	ETI's Comprehensive Hardening Projects	2029
736CY	-	TBD
738CY	-	TBD
740OK	ETI's Comprehensive Hardening Projects	2029
741DA	ETI's Comprehensive Hardening Projects	2032
742OK	ETI's Comprehensive Hardening Projects	2034
743DA	ETI's Comprehensive Hardening Projects	2028
744DA	ETI's Comprehensive Hardening Projects	2032
750FO	ETI's Comprehensive Hardening Projects	2029
753FO	ETI's Comprehensive Hardening Projects	2029
75RAY	ETI's Comprehensive Hardening Projects	2031
761SA	ETI's Comprehensive Hardening Projects	2026
762AL	ETI's Comprehensive Hardening Projects	2030
763AL	ETI's Comprehensive Hardening Projects	2025
768AL	ETI's Comprehensive Hardening Projects	2029
781EG	ETI's Comprehensive Hardening Projects	2027
806PD	ETI's Comprehensive Hardening Projects	2030
809PD	ETI's Comprehensive Hardening Projects	2033
883GR	ETI's Comprehensive Hardening Projects	2031
904NA	ETI's Comprehensive Hardening Projects	2031
905NA	ETI's Comprehensive Hardening Projects	2031
90MPL	ETI's Comprehensive Hardening Projects	2031
917SW	-	TBD
920DO	ETI's Comprehensive Hardening Projects	2027
92CHI	ETI's Comprehensive Hardening Projects	2028
945ID	ETI's Comprehensive Hardening Projects	2034
949IN	-	TBD
969NA	ETI's Comprehensive Hardening Projects	2029
981GR	ETI's Comprehensive Hardening Projects	2025
982GR	ETI's Comprehensive Hardening Projects	2030
88WED	ETI's Comprehensive Hardening Projects	2029
176PR	ETI's Comprehensive Hardening Projects	2031
35HDN	ETI's Comprehensive Hardening Projects	2029
682VI	ETI's Comprehensive Hardening Projects	2033
352ON	ETI's Comprehensive Hardening Projects	2032
362BD	ETI's Comprehensive Hardening Projects	2031
681VI	ETI's Comprehensive Hardening Projects	2028
18LOB	ETI's Comprehensive Hardening Projects	2030
479MD	ETI's Comprehensive Hardening Projects	2034

233ST	ETI's Comprehensive Hardening Projects	2030

Circuit Name	Concrete	Percent Concrete	Fiberglass	Percent Fiberglass	Steel	Percent Steel	Street Light	Percent Street Light	Wood	Percent Wood
100BL	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1973	99.9%
101BL	0	0.0%	45	2.0%	0	0.0%	0	0.0%	2182	98.0%
102CD	0	0.0%	0	0.0%	15	1.4%	31	2.9%	1024	95.7%
102LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	366	100.0%
103CD	10	1.2%	0	0.0%	44	5.2%	2	0.2%	794	93.4%
104CD	2	0.2%	0	0.0%	3	0.3%	32	2.9%	1054	96.6%
104SL	1	0.1%	0	0.0%	0	0.0%	1	0.1%	819	99.8%
105CD	6	0.5%	0	0.0%	2	0.2%	0	0.0%	1091	99.3%
105SL	25	0.9%	0	0.0%	41	1.5%	26	1.0%	2633	96.6%
106HM	1	0.1%	0	0.0%	2	0.2%	0	0.0%	992	99.7%
107HM	0	0.0%	0	0.0%	7	0.6%	55	4.3%	1208	95.1%
110MC	0	0.0%	0	0.0%	0	0.0%	14	2.0%	675	98.0%
111MC	1	0.1%	0	0.0%	0	0.0%	23	3.4%	656	96.5%
111WS	0	0.0%	0	0.0%	0	0.0%	1	0.2%	400	99.8%
112MC	3	0.4%	0	0.0%	3	0.4%	11	1.4%	795	97.9%
112WS	0	0.0%	0	0.0%	0	0.0%	2	0.6%	361	99.4%
113MC	0	0.0%	0	0.0%	1	0.2%	35	8.3%	388	91.5%
113WS	0	0.0%	0	0.0%	3	1.1%	9	3.2%	271	95.8%
119RB	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1240	99.9%
120EL	0	0.0%	0	0.0%	17	2.4%	52	7.4%	633	90.2%
121EL	3	0.2%	0	0.0%	0	0.0%	47	3.5%	1280	96.2%
122EL	6	1.0%	0	0.0%	15	2.4%	18	2.9%	579	93.7%
123EL	2	0.2%	0	0.0%	2	0.2%	79	8.3%	865	91.2%
127SO	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1389	99.9%
129VI	5	0.8%	0	0.0%	0	0.0%	39	6.0%	601	93.2%
130CE	0	0.0%	0	0.0%	1	0.2%	0	0.0%	567	99.8%
130VI	3	0.5%	0	0.0%	1	0.2%	73	11.7%	548	87.7%
131CE	0	0.0%	0	0.0%	2	0.5%	0	0.0%	411	99.5%
131VI	11	0.6%	0	0.0%	3	0.2%	106	6.1%	1611	93.1%
132CE	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1019	100.0%
132VI	1	0.2%	0	0.0%	2	0.4%	21	4.0%	498	95.4%
133CE	1	0.1%	2	0.2%	7	0.7%	0	0.0%	964	99.0%
134TG	1	0.2%	0	0.0%	11	1.9%	15	2.5%	563	95.4%
135TG	0	0.0%	0	0.0%	18	7.5%	25	10.4%	197	82.1%
137TG	9	1.3%	0	0.0%	11	1.6%	30	4.5%	618	92.5%
141LV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1501	100.0%
142LV	1	0.1%	0	0.0%	0	0.0%	0	0.0%	1100	99.9%
151RS	1	0.1%	0	0.0%	4	0.6%	29	4.2%	659	95.1%
153RS	0	0.0%	1	0.1%	17	2.2%	22	2.8%	738	94.9%
154BE	0	0.0%	0	0.0%	2	0.1%	0	0.0%	2877	99.9%
155BE	1	0.0%	2	0.1%	29	0.8%	4	0.1%	3727	99.0%
156BE	0	0.0%	0	0.0%	7	0.7%	0	0.0%	1007	99.3%
157HA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	223	100.0%
159CH	0	0.0%	0	0.0%	0	0.0%	1	0.1%	1087	99.9%
15LCN	1	0.3%	0	0.0%	1	0.3%	22	6.7%	305	92.7%
160CH	2	0.1%	0	0.0%	3	0.2%	0	0.0%	1416	99.6%
161VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	687	100.0%
162VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2121	100.0%
163VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2406	100.0%
164VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1269	100.0%
165CH	0	0.0%	0	0.0%	6	1.5%	0	0.0%	385	98.5%
166CH	0	0.0%	0	0.0%	1	0.1%	0	0.0%	819	99.9%
16LCN	1	0.3%	0	0.0%	0	0.0%	19	5.6%	317	94.1%
17LOB	4	0.4%	0	0.0%	0	0.0%	0	0.0%	1036	99.6%
180AM	0	0.0%	0	0.0%	1	0.1%	2	0.2%	1158	99.7%
182AM	0	0.0%	0	0.0%	7	0.3%	0	0.0%	2091	99.7%
184PS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	910	100.0%
185PS	0	0.0%	0	0.0%	2	0.1%	0	0.0%	2057	99.9%
18LOB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	811	100.0%
18WWK	0	0.0%	0	0.0%	1	0.5%	3	1.5%	193	98.0%
193NE	0	0.0%	0	0.0%	2	0.1%	7	0.5%	1500	99.4%
194NE	0	0.0%	0	0.0%	0	0.0%	0	0.0%	84	100.0%
195CR	0	0.0%	0	0.0%	6	2.7%	0	0.0%	220	97.3%
197NE	4	0.9%	0	0.0%	0	0.0%	0	0.0%	445	99.1%
198CR	3	0.9%	2	0.6%	5	1.6%	0	0.0%	307	96.8%
201SD	0	0.0%	8	0.5%	5	0.3%	0	0.0%	1455	99.1%
202SD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	960	100.0%
204TB	0	0.0%	0	0.0%	6	0.2%	0	0.0%	3217	99.8%
206TB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1037	100.0%
207TB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	621	100.0%
211BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1694	100.0%
212BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	351	100.0%
213BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4963	100.0%
21NOE	1	0.1%	0	0.0%	14	0.9%	66	4.3%	1471	94.8%
226HI	0	0.0%	1	0.1%	5	0.5%	0	0.0%	1017	99.4%
227HI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	512	100.0%
22HKS	1	0.1%	0	0.0%	2	0.2%	31	3.6%	838	96.1%
22YAN	3	0.2%	0	0.0%	3	0.2%	8	0.5%	1467	99.1%
231ST	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1357	100.0%
232ST	1	0.0%	0	0.0%	4	0.1%	0	0.0%	3298	99.8%

233ST	0	0.0%	0	0.0%	12	0.5%	0	0.0%	2270	99.5%
238CR	0	0.0%	0	0.0%	2	0.1%	0	0.0%	1519	99.9%
239CR	0	0.0%	0	0.0%	1	0.1%	0	0.0%	834	99.9%
23HKS	0	0.0%	0	0.0%	1	0.1%	33	4.0%	800	95.9%
23YAN	0	0.0%	0	0.0%	0	0.0%	2	0.4%	459	99.6%
240WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1943	100.0%
241WS	0	0.0%	0	0.0%	5	0.3%	0	0.0%	1861	99.7%
250BY	0	0.0%	0	0.0%	3	0.2%	0	0.0%	1206	99.8%
251KP	0	0.0%	0	0.0%	10	0.3%	0	0.0%	3745	99.7%
257GV	0	0.0%	0	0.0%	0	0.0%	0	0.0%	437	100.0%
25HKS	0	0.0%	0	0.0%	22	2.8%	45	5.7%	720	91.5%
261TR	0	0.0%	0	0.0%	2	0.2%	0	0.0%	804	99.8%
268RV	0	0.0%	0	0.0%	1	0.0%	0	0.0%	3715	100.0%
269RV	0	0.0%	0	0.0%	4	0.1%	0	0.0%	6904	99.9%
26HRN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2340	100.0%
26NOE	0	0.0%	0	0.0%	0	0.0%	15	4.1%	352	95.9%
270BC	0	0.0%	0	0.0%	24	7.4%	0	0.0%	301	92.6%
27NOE	2	1.2%	0	0.0%	8	4.8%	4	2.4%	152	91.6%
280ML	0	0.0%	0	0.0%	6	1.4%	15	3.5%	410	95.1%
281ML	0	0.0%	0	0.0%	12	3.2%	0	0.0%	367	96.8%
28NOE	0	0.0%	0	0.0%	1	0.4%	12	4.2%	271	95.4%
29NOE	1	0.3%	0	0.0%	0	0.0%	10	2.7%	353	97.0%
304NC	0	0.0%	2	0.2%	1	0.1%	1	0.1%	879	99.5%
307SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2338	100.0%
308FR	2	0.4%	0	0.0%	11	2.0%	35	6.4%	497	91.2%
308SP	0	0.0%	0	0.0%	1	0.1%	4	0.3%	1277	99.6%
309SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2843	100.0%
30BRC	2	0.1%	1	0.1%	5	0.4%	87	6.1%	1326	93.3%
310SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3298	100.0%
311SP	0	0.0%	0	0.0%	11	0.7%	0	0.0%	1664	99.3%
316TA	0	0.0%	0	0.0%	5	0.7%	0	0.0%	709	99.3%
317TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	751	100.0%
31BRC	0	0.0%	0	0.0%	1	0.2%	31	6.9%	416	92.9%
320AP	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2038	100.0%
321AP	0	0.0%	8	1.2%	23	3.5%	0	0.0%	631	95.3%
324CO	0	0.0%	0	0.0%	37	3.0%	35	2.8%	1181	94.3%
325CO	0	0.0%	0	0.0%	15	1.3%	13	1.1%	1161	97.6%
326CO	0	0.0%	0	0.0%	0	0.0%	1	0.1%	1123	99.9%
327CO	0	0.0%	0	0.0%	4	0.4%	1	0.1%	1128	99.6%
32BRC	3	0.3%	1	0.1%	30	2.7%	68	6.2%	996	90.7%
330AD	6	0.8%	0	0.0%	2	0.3%	0	0.0%	715	98.9%
332AD	0	0.0%	0	0.0%	0	0.0%	7	0.8%	817	99.2%
333NC	0	0.0%	5	1.4%	6	1.6%	0	0.0%	353	97.0%
334NC	0	0.0%	6	0.1%	8	0.2%	0	0.0%	4410	99.7%
335NC	0	0.0%	3	0.1%	1	0.0%	0	0.0%	2590	99.8%
336NC	0	0.0%	26	2.3%	10	0.9%	0	0.0%	1104	96.8%
337NC	0	0.0%	2	0.2%	2	0.2%	0	0.0%	1040	99.6%
338NC	0	0.0%	10	2.2%	4	0.9%	0	0.0%	432	96.9%
33BRC	0	0.0%	0	0.0%	1	0.6%	18	10.6%	151	88.8%
340WN	1	0.1%	0	0.0%	5	0.6%	0	0.0%	853	99.3%
341WN	1	0.1%	0	0.0%	1	0.1%	0	0.0%	1482	99.9%
342JT	0	0.0%	7	0.6%	0	0.0%	0	0.0%	1185	99.4%
342WN	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1233	99.9%
343JT	0	0.0%	5	0.2%	0	0.0%	0	0.0%	2244	99.8%
345JT	0	0.0%	13	0.3%	1	0.0%	0	0.0%	4208	99.7%
345OI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2765	100.0%
346JT	0	0.0%	6	1.2%	0	0.0%	0	0.0%	476	98.8%
34KOL	0	0.0%	0	0.0%	1	0.1%	25	2.8%	872	97.1%
350ON	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1012	99.9%
350PW	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1577	99.9%
351ON	0	0.0%	0	0.0%	8	1.5%	0	0.0%	527	98.5%
351PW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	574	100.0%
352ON	1	0.1%	0	0.0%	15	2.1%	6	0.8%	689	96.9%
35HDN	3	0.2%	0	0.0%	0	0.0%	0	0.0%	1896	99.8%
35KOL	1	0.1%	0	0.0%	0	0.0%	39	4.9%	757	95.0%
360BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1092	100.0%
360HT	0	0.0%	3	0.7%	0	0.0%	0	0.0%	431	99.3%
361BD	0	0.0%	0	0.0%	1	0.1%	0	0.0%	969	99.9%
361HT	0	0.0%	0	0.0%	2	2.1%	0	0.0%	93	97.9%
362BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1252	100.0%
362HT	0	0.0%	7	0.5%	7	0.5%	0	0.0%	1393	99.0%
363BD	0	0.0%	0	0.0%	0	0.0%	1	0.0%	2443	100.0%
363HT	0	0.0%	16	0.8%	12	0.6%	0	0.0%	1934	98.6%
364HT	0	0.0%	5	0.2%	16	0.6%	0	0.0%	2649	99.2%
365HT	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1195	99.9%
36KOL	0	0.0%	0	0.0%	3	0.4%	26	3.6%	687	95.9%
374MR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1083	100.0%
375MR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1191	100.0%
37KOL	8	1.2%	0	0.0%	2	0.3%	1	0.1%	682	98.4%
37TYR	12	2.0%	0	0.0%	6	1.0%	11	1.9%	563	95.1%
380MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4213	100.0%
381MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2227	100.0%

382MC	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1697	99.9%
392WO	0	0.0%	0	0.0%	3	0.5%	1	0.2%	575	99.3%
393WO	1	0.1%	0	0.0%	0	0.0%	0	0.0%	750	99.9%
403CV	0	0.0%	8	0.4%	1	0.1%	17	0.9%	1804	98.6%
404CV	0	0.0%	0	0.0%	45	2.0%	8	0.4%	2183	97.6%
405CV	0	0.0%	1	0.1%	2	0.1%	8	0.4%	1824	99.4%
406CV	0	0.0%	2	0.1%	0	0.0%	0	0.0%	3541	99.9%
40LNB	6	0.5%	47	4.0%	42	3.6%	24	2.1%	1046	89.8%
41LNB	0	0.0%	0	0.0%	7	0.7%	12	1.2%	1017	98.2%
425CV	0	0.0%	3	0.0%	10	0.1%	2	0.0%	8842	99.8%
426CV	2	0.0%	0	0.0%	19	0.3%	5	0.1%	7196	99.6%
42LNB	0	0.0%	0	0.0%	3	1.1%	8	3.0%	259	95.9%
432KT	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2092	100.0%
433TI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1672	100.0%
436TI	0	0.0%	0	0.0%	5	0.2%	0	0.0%	2622	99.8%
437TI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2778	100.0%
43LNB	0	0.0%	1	0.1%	12	1.6%	0	0.0%	755	98.3%
441LU	0	0.0%	7	0.2%	1	0.0%	1	0.0%	3820	99.8%
452KT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	576	100.0%
453KT	0	0.0%	0	0.0%	1	0.1%	1	0.1%	1091	99.8%
456FL	0	0.0%	0	0.0%	3	0.3%	0	0.0%	929	99.7%
457FL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1293	100.0%
45PTN	0	0.0%	0	0.0%	0	0.0%	1	0.1%	684	99.9%
461SI	0	0.0%	0	0.0%	10	1.3%	0	0.0%	760	98.7%
462SI	0	0.0%	0	0.0%	2	0.2%	0	0.0%	941	99.8%
463SI	0	0.0%	0	0.0%	6	1.2%	0	0.0%	513	98.8%
46PTN	2	0.1%	4	0.3%	8	0.6%	0	0.0%	1350	99.0%
471NS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2217	100.0%
472NS	3	0.5%	0	0.0%	1	0.2%	0	0.0%	629	99.4%
476MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1343	100.0%
477MD	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2755	100.0%
478MD	0	0.0%	0	0.0%	1	0.1%	0	0.0%	693	99.9%
479MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1442	100.0%
48TCO	2	0.2%	0	0.0%	39	4.6%	0	0.0%	799	95.1%
491LI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	27	100.0%
4CAL	0	0.0%	13	0.2%	16	0.2%	0	0.0%	6696	99.6%
504CN	0	0.0%	0	0.0%	0	0.0%	1	0.4%	262	99.6%
505CN	0	0.0%	3	0.2%	1	0.1%	0	0.0%	1409	99.7%
506CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	423	100.0%
506WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4039	100.0%
507CN	0	0.0%	1	0.1%	1	0.1%	5	0.3%	1483	99.5%
50FTW	0	0.0%	0	0.0%	0	0.0%	2	0.9%	225	99.1%
511CN	0	0.0%	0	0.0%	1	0.1%	0	0.0%	669	99.9%
512CN	0	0.0%	1	0.1%	2	0.2%	0	0.0%	1280	99.8%
513CN	0	0.0%	4	0.3%	0	0.0%	2	0.2%	1268	99.5%
514CN	0	0.0%	1	0.1%	0	0.0%	0	0.0%	809	99.9%
515CN	0	0.0%	1	0.1%	13	1.6%	0	0.0%	806	98.3%
516CN	0	0.0%	0	0.0%	2	1.1%	0	0.0%	173	98.9%
519DO	0	0.0%	2	0.1%	1	0.0%	0	0.0%	2283	99.9%
51FTW	0	0.0%	0	0.0%	0	0.0%	1	0.3%	339	99.7%
520BW	0	0.0%	2	0.1%	15	0.6%	1	0.0%	2324	99.2%
521BW	6	0.8%	0	0.0%	3	0.4%	0	0.0%	750	98.8%
522BW	0	0.0%	4	0.8%	22	4.4%	0	0.0%	475	94.8%
525PA	1	0.1%	15	1.7%	3	0.3%	0	0.0%	861	97.8%
528CM	0	0.0%	0	0.0%	10	6.8%	0	0.0%	138	93.2%
529CM	0	0.0%	0	0.0%	0	0.0%	0	0.0%	85	100.0%
52FTW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	91	100.0%
535SH	0	0.0%	0	0.0%	65	7.2%	0	0.0%	841	92.8%
536SH	0	0.0%	1	0.1%	19	1.4%	0	0.0%	1382	98.6%
537LA	0	0.0%	3	0.1%	1	0.0%	0	0.0%	2502	99.8%
538LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1157	100.0%
539LA	0	0.0%	1	0.1%	2	0.2%	0	0.0%	1234	99.8%
53BAT	1	0.0%	0	0.0%	2	0.1%	0	0.0%	2712	99.9%
540LA	0	0.0%	5	0.3%	5	0.3%	0	0.0%	1557	99.4%
544JT	0	0.0%	8	0.9%	5	0.6%	0	0.0%	864	98.5%
545PL	0	0.0%	0	0.0%	17	1.9%	0	0.0%	858	98.1%
546PL	0	0.0%	0	0.0%	11	6.2%	0	0.0%	166	93.8%
549JT	0	0.0%	6	0.2%	4	0.2%	0	0.0%	2465	99.6%
54FTW	0	0.0%	0	0.0%	0	0.0%	6	3.1%	185	96.9%
550EP	7	0.7%	9	0.9%	3	0.3%	0	0.0%	976	98.1%
551EP	0	0.0%	0	0.0%	9	0.7%	0	0.0%	1300	99.3%
552EP	0	0.0%	29	3.7%	0	0.0%	0	0.0%	757	96.3%
560WD	0	0.0%	0	0.0%	12	19.7%	0	0.0%	49	80.3%
562WD	0	0.0%	0	0.0%	3	10.3%	0	0.0%	26	89.7%
563WD	0	0.0%	0	0.0%	20	11.5%	0	0.0%	154	88.5%
566CR	0	0.0%	3	0.1%	6	0.2%	2	0.1%	3392	99.7%
567CR	0	0.0%	1	0.0%	3	0.1%	0	0.0%	2411	99.8%
568DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1704	100.0%
569DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	731	100.0%
570CR	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2451	100.0%
570DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3118	100.0%
572CN	0	0.0%	0	0.0%	8	1.0%	2	0.2%	797	98.8%

574CN	0	0.0%	6	0.7%	12	1.5%	0	0.0%	785	97.8%
575CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	111	100.0%
576CN	0	0.0%	23	2.2%	5	0.5%	0	0.0%	1005	97.3%
577CN	1	0.1%	14	0.8%	7	0.4%	0	0.0%	1721	98.7%
580LM	0	0.0%	4	0.4%	4	0.4%	7	0.8%	908	98.4%
581LM	0	0.0%	10	1.9%	16	3.0%	0	0.0%	501	95.1%
582LM	0	0.0%	7	1.6%	14	3.2%	0	0.0%	410	95.1%
583LM	0	0.0%	19	2.0%	20	2.1%	0	0.0%	918	95.9%
584LM	0	0.0%	1	0.4%	15	6.3%	0	0.0%	223	93.3%
585LM	0	0.0%	4	8.9%	1	2.2%	0	0.0%	40	88.9%
590AP	0	0.0%	1	2.5%	8	20.0%	0	0.0%	31	77.5%
591AP	1	0.6%	0	0.0%	10	6.4%	0	0.0%	146	93.0%
592AP	0	0.0%	9	5.2%	6	3.5%	0	0.0%	157	91.3%
592WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	6689	100.0%
593WD	0	0.0%	0	0.0%	1	0.1%	1	0.1%	814	99.8%
594WD	0	0.0%	0	0.0%	0	0.0%	3	0.2%	1965	99.8%
598TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1596	100.0%
599TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	700	100.0%
59GRO	11	0.9%	4	0.3%	9	0.7%	0	0.0%	1246	98.1%
600HU	0	0.0%	0	0.0%	4	0.1%	0	0.0%	4336	99.9%
607HU	0	0.0%	0	0.0%	2	0.2%	0	0.0%	1185	99.8%
608HU	0	0.0%	4	0.4%	3	0.3%	0	0.0%	1081	99.4%
609HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%	26	100.0%
60CRK	0	0.0%	0	0.0%	0	0.0%	0	0.0%	233	100.0%
610HU	1	0.1%	0	0.0%	8	1.0%	0	0.0%	795	98.9%
611HU	0	0.0%	0	0.0%	7	0.6%	0	0.0%	1247	99.4%
61CRK	1	0.5%	0	0.0%	0	0.0%	0	0.0%	221	99.5%
61GRO	10	0.9%	0	0.0%	2	0.2%	0	0.0%	1080	98.9%
627TE	0	0.0%	0	0.0%	7	0.7%	0	0.0%	979	99.3%
628TE	22	1.9%	0	0.0%	3	0.3%	0	0.0%	1120	97.8%
62GRO	12	1.2%	0	0.0%	14	1.4%	4	0.4%	983	97.0%
632WT	0	0.0%	5	0.7%	5	0.7%	0	0.0%	728	98.6%
633WT	0	0.0%	0	0.0%	7	1.1%	2	0.3%	614	98.6%
634WT	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1606	99.9%
63CRK	2	1.4%	0	0.0%	1	0.7%	0	0.0%	139	97.9%
63GRO	3	0.3%	0	0.0%	1	0.1%	0	0.0%	866	99.5%
64CRK	0	0.0%	2	0.2%	6	0.5%	1	0.1%	1139	99.2%
650VT	1	0.7%	0	0.0%	1	0.7%	0	0.0%	143	98.6%
651VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	103	100.0%
652VT	0	0.0%	0	0.0%	1	0.3%	0	0.0%	348	99.7%
653VT	8	1.4%	0	0.0%	0	0.0%	0	0.0%	578	98.6%
654VT	0	0.0%	3	0.7%	0	0.0%	0	0.0%	420	99.3%
655VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%	167	100.0%
657VT	9	3.9%	0	0.0%	2	0.9%	0	0.0%	219	95.2%
65CRK	9	1.3%	0	0.0%	14	2.0%	1	0.1%	665	96.5%
65MAN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	50	100.0%
66MAN	3	0.3%	0	0.0%	11	0.9%	36	3.1%	1120	95.7%
670GE	0	0.0%	0	0.0%	1	0.0%	0	0.0%	3177	100.0%
673MA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1618	100.0%
674MA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1624	100.0%
67MAN	0	0.0%	0	0.0%	0	0.0%	14	1.7%	819	98.3%
67PTA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	664	100.0%
681GR	0	0.0%	0	0.0%	1	0.5%	0	0.0%	181	99.5%
681VI	0	0.0%	0	0.0%	7	0.6%	0	0.0%	1091	99.4%
682GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	473	100.0%
682VI	0	0.0%	0	0.0%	4	0.2%	8	0.3%	2431	99.5%
68PTA	0	0.0%	0	0.0%	3	0.2%	0	0.0%	1763	99.8%
69PTA	0	0.0%	0	0.0%	8	0.8%	0	0.0%	962	99.2%
6CAL	2	0.1%	0	0.0%	3	0.1%	0	0.0%	3390	99.9%
704GL	5	12.2%	0	0.0%	0	0.0%	0	0.0%	36	87.8%
70ECH	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2805	100.0%
70PAS	2	0.1%	0	0.0%	0	0.0%	5	0.4%	1337	99.5%
711MG	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1958	100.0%
714SL	0	0.0%	0	0.0%	0	0.0%	0	0.0%	546	100.0%
719ME	1	14.3%	0	0.0%	0	0.0%	0	0.0%	6	85.7%
71ECH	0	0.0%	0	0.0%	1	0.1%	16	2.3%	690	97.6%
723DY	0	0.0%	0	0.0%	0	0.0%	5	0.4%	1401	99.6%
724DY	1	0.0%	1	0.0%	7	0.3%	13	0.6%	2316	99.1%
725DY	0	0.0%	9	1.9%	0	0.0%	0	0.0%	477	98.1%
726DY	0	0.0%	0	0.0%	4	0.1%	2	0.1%	2836	99.8%
727DY	0	0.0%	0	0.0%	3	0.4%	1	0.1%	674	99.4%
72ECH	1	0.1%	0	0.0%	0	0.0%	0	0.0%	711	99.9%
731SN	0	0.0%	22	4.8%	0	0.0%	0	0.0%	437	95.2%
733SN	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1136	99.9%
736CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	522	100.0%
737CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	879	100.0%
738CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1703	100.0%
739CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%	403	100.0%
73ECH	0	0.0%	0	0.0%	0	0.0%	0	0.0%	832	100.0%
73RAY	2	0.2%	0	0.0%	0	0.0%	0	0.0%	1248	99.8%
740OK	0	0.0%	4	0.3%	2	0.1%	0	0.0%	1407	99.6%
741DA	0	0.0%	0	0.0%	0	0.0%	1	0.2%	457	99.8%

741OK	0	0.0%	0	0.0%	11	3.9%	0	0.0%	272	96.1%
742OK	0	0.0%	0	0.0%	45	28.3%	0	0.0%	114	71.7%
743DA	37	3.3%	0	0.0%	1	0.1%	0	0.0%	1080	96.6%
743OK	3	0.6%	6	1.2%	0	0.0%	1	0.2%	483	98.0%
744DA	16	0.9%	0	0.0%	9	0.5%	1	0.1%	1746	98.5%
744OK	0	0.0%	16	1.4%	2	0.2%	0	0.0%	1108	98.4%
745OK	1	0.3%	1	0.3%	9	2.6%	0	0.0%	339	96.9%
74RAY	4	0.2%	0	0.0%	0	0.0%	0	0.0%	2333	99.8%
750FO	7	0.8%	2	0.2%	3	0.4%	0	0.0%	832	98.6%
751FO	4	0.7%	26	4.5%	0	0.0%	0	0.0%	542	94.8%
752FO	0	0.0%	5	3.2%	5	3.2%	0	0.0%	145	93.5%
753FO	2	0.4%	0	0.0%	1	0.2%	0	0.0%	471	99.4%
754FO	0	0.0%	1	1.2%	2	2.4%	0	0.0%	80	96.4%
755FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	22	100.0%
757FO	0	0.0%	2	7.1%	0	0.0%	0	0.0%	26	92.9%
758FO	4	3.8%	1	1.0%	0	0.0%	0	0.0%	100	95.2%
759FO	1	0.2%	3	0.6%	0	0.0%	0	0.0%	474	99.2%
75RAY	1	0.1%	0	0.0%	2	0.2%	0	0.0%	1016	99.7%
761SA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1383	100.0%
762AL	0	0.0%	14	2.6%	4	0.7%	1	0.2%	528	96.5%
765AL	0	0.0%	0	0.0%	3	1.7%	0	0.0%	172	98.3%
76JRU	0	0.0%	0	0.0%	11	2.6%	42	10.0%	366	87.4%
770AL	0	0.0%	5	0.5%	2	0.2%	1	0.1%	913	99.1%
771AL	0	0.0%	0	0.0%	1	0.1%	0	0.0%	792	99.9%
77JRU	1	0.3%	2	0.7%	0	0.0%	26	9.1%	257	89.9%
781EG	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2405	100.0%
782PW	0	0.0%	0	0.0%	0	0.0%	0	0.0%	360	100.0%
78JRU	2	0.3%	36	5.7%	13	2.1%	41	6.5%	535	85.3%
801FE	11	1.3%	0	0.0%	2	0.2%	0	0.0%	847	98.5%
806PD	0	0.0%	3	0.1%	20	0.4%	1	0.0%	5213	99.5%
808PD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1891	100.0%
809PD	0	0.0%	0	0.0%	2	0.0%	0	0.0%	4909	100.0%
80LAV	0	0.0%	0	0.0%	0	0.0%	10	2.0%	494	98.0%
80WED	5	2.9%	0	0.0%	7	4.1%	0	0.0%	160	93.0%
810PD	0	0.0%	0	0.0%	2	0.5%	0	0.0%	364	99.5%
819MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	290	100.0%
81LAV	1	0.1%	0	0.0%	0	0.0%	74	7.2%	947	92.7%
82WED	0	0.0%	29	8.1%	3	0.8%	7	2.0%	319	89.1%
84DQN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	187	100.0%
85DQN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	100	100.0%
85WED	0	0.0%	36	8.1%	25	5.7%	9	2.0%	372	84.2%
86WED	5	1.6%	0	0.0%	4	1.3%	15	4.7%	295	92.5%
87DQN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	194	100.0%
87WED	0	0.0%	0	0.0%	19	27.1%	0	0.0%	51	72.9%
883GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2574	100.0%
88WED	20	2.1%	3	0.3%	76	7.9%	2	0.2%	861	89.5%
904NA	1	0.1%	2	0.1%	7	0.5%	20	1.4%	1428	97.9%
905NA	3	0.1%	0	0.0%	23	0.5%	13	0.3%	4964	99.2%
90MPL	0	0.0%	0	0.0%	0	0.0%	1	0.2%	444	99.8%
90STG	0	0.0%	0	0.0%	3	2.3%	5	3.8%	122	93.8%
91MPL	0	0.0%	0	0.0%	0	0.0%	1	0.2%	448	99.8%
91STG	5	0.9%	0	0.0%	23	4.1%	12	2.1%	525	92.9%
920DO	0	0.0%	0	0.0%	5	0.1%	0	0.0%	6075	99.9%
92CHI	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2640	100.0%
92STG	12	1.5%	5	0.6%	19	2.4%	27	3.4%	741	92.2%
93CHI	3	0.1%	0	0.0%	0	0.0%	0	0.0%	2344	99.9%
93STG	0	0.0%	0	0.0%	5	2.7%	9	4.8%	172	92.5%
969NA	5	0.3%	10	0.6%	37	2.1%	3	0.2%	1718	96.9%
981GR	0	0.0%	0	0.0%	6	0.7%	0	0.0%	902	99.3%
982GR	0	0.0%	0	0.0%	1	0.0%	0	0.0%	2677	100.0%
98SPU	0	0.0%	0	0.0%	7	0.9%	1	0.1%	733	98.9%
99SPU	0	0.0%	1	0.2%	0	0.0%	0	0.0%	444	99.8%
CAMDN	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%
CO50	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
COSB	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
GORD	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%
JEFFC	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
L008F	0	0.0%	0	0.0%	0	0.0%	4	1.2%	340	98.8%
MAGGR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
SE40	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%

Circuit Name	Concrete	Concrete Percent Failures	Fiberglass	Fiberglass Percent Failures	Steel	Steel Percent Failures	Street Light	Street Light Percent Failures
100BL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
101BL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
102CD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
102LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
103CD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
104CD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
104SL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
105CD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
105SL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
106HM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
107HM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
110MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
111MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
111WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
112MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
112WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
113MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
113WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
119RB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
120EL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
121EL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
122EL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
123EL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
127SO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
129VI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
130CE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
130VI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
131CE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
131VI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
132CE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
132VI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
133CE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
134TG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
135TG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
137TG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
141LV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
142LV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
151RS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
153RS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
154BE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
155BE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
156BE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
157HA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
159CH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
15LCN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
160CH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
161VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
162VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
163VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
164VD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
165CH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
166CH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
16LCN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
17LOB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
180AM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
182AM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
184PS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
185PS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
18LOB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
18WWK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
193NE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
194NE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
195CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
197NE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
198CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
201SD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
202SD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
204TB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
206TB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
207TB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
211BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
212BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
213BA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
21NOE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
226HI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
227HI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
22HKS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
22YAN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
231ST	0	0.0%	0	0.0%	0	0.0%	0	0.0%
232ST	0	0.0%	0	0.0%	0	0.0%	0	0.0%

233ST	0	0.0%	0	0.0%	0	0.0%	0	0.0%
238CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
239CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
23HKS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
23YAN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
240WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
241WS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
250BY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
251KP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
257GV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
25HKS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
261TR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
268RV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
269RV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
26HRN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
26NOE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
270BC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
27NOE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
280ML	0	0.0%	0	0.0%	0	0.0%	0	0.0%
281ML	0	0.0%	0	0.0%	0	0.0%	0	0.0%
28NOE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
29NOE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
304NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
307SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
308FR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
308SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
309SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
30BRC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
310SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
311SP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
316TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
317TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
31BRC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
320AP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
321AP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
324CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
325CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
326CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
327CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
32BRC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
330AD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
332AD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
333NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
334NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
335NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
336NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
337NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
338NC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
33BRC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
340WN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
341WN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
342JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
342WN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
343JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
345JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
345OI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
346JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
34KOL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
350ON	0	0.0%	0	0.0%	0	0.0%	0	0.0%
350PW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
351ON	0	0.0%	0	0.0%	0	0.0%	0	0.0%
351PW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
352ON	0	0.0%	0	0.0%	0	0.0%	0	0.0%
35HDN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
35KOL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
360BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
360HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
361BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
361HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
362BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
362HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
363BD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
363HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
364HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
365HT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
36KOL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
374MR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
375MR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
37KOL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
37TYR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
380MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
381MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%

382MC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
392WO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
393WO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
403CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
404CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
405CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
406CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
40LNB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
41LNB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
425CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
426CV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
42LNB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
432KT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
433TI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
436TI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
437TI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
43LNB	0	0.0%	0	0.0%	0	0.0%	0	0.0%
441LU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
452KT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
453KT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
456FL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
457FL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
45PTN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
461SI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
462SI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
463SI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
46PTN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
471NS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
472NS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
476MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
477MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
478MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
479MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
48TCO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
491LI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
4CAL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
504CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
505CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
506CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
506WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
507CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
50FTW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
511CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
512CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
513CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
514CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
515CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
516CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
519DO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
51FTW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
520BW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
521BW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
522BW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
525PA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
528CM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
529CM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
52FTW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
535SH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
536SH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
537LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
538LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
539LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
53BAT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
540LA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
544JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
545PL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
546PL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
549JT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
54FTW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
550EP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
551EP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
552EP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
560WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
562WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
563WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
566CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
567CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
568DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
569DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
570CR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
570DC	0	0.0%	0	0.0%	0	0.0%	0	0.0%
572CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%

574CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
575CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
576CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
577CN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
580LM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
581LM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
582LM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
583LM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
584LM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
585LM	0	0.0%	0	0.0%	0	0.0%	0	0.0%
590AP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
591AP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
592AP	0	0.0%	0	0.0%	0	0.0%	0	0.0%
592WR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
593WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
594WD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
598TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
599TA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
59GRO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
600HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
607HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
608HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
609HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
60CRK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
610HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
611HU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
61CRK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
61GRO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
627TE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
628TE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
62GRO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
632WT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
633WT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
634WT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
63CRK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
63GRO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
64CRK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
650VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
651VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
652VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
653VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
654VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%

655VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
657VT	0	0.0%	0	0.0%	0	0.0%	0	0.0%
65CRK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
65MAN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
66MAN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
670GE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
673MA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
674MA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
67MAN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
67PTA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
681GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
681VI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
682GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
682Vi	0	0.0%	0	0.0%	0	0.0%	0	0.0%
68PTA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
69PTA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
6CAL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
702GL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
704GL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
706GL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
707GL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
708GL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
70ECH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
70PAS	0	0.0%	0	0.0%	0	0.0%	0	0.0%
711MG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
714SL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
719ME	0	0.0%	0	0.0%	0	0.0%	0	0.0%
71ECH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
723DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
723ME	0	0.0%	0	0.0%	0	0.0%	0	0.0%
724DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
725DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
726DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
727DY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
72ECH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
731SN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
733SN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
736CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
737CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
738CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
739CY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
73ECH	0	0.0%	0	0.0%	0	0.0%	0	0.0%
73RAY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
740OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
741DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
741OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
742OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
743DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
743OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
744DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
744OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
745OK	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74RAY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
750FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
751FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
752FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
753FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
754FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
755FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
757FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
758FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
759FO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
75RAY	0	0.0%	0	0.0%	0	0.0%	0	0.0%
761SA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
762AL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
765AL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
76JRU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
770AL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
771AL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
77JRU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
781EG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
782PW	0	0.0%	0	0.0%	0	0.0%	0	0.0%
78JRU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
801FE	0	0.0%	0	0.0%	0	0.0%	0	0.0%
806PD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
808PD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
809PD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
80LAV	0	0.0%	0	0.0%	0	0.0%	0	0.0%
80WED	0	0.0%	0	0.0%	0	0.0%	0	0.0%
810PD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
819MD	0	0.0%	0	0.0%	0	0.0%	0	0.0%
81LAV	0	0.0%	0	0.0%	0	0.0%	0	0.0%

82WED	0	0.0%	0	0.0%	0	0.0%	0	0.0%
84DQN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
85DQN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
85WED	0	0.0%	0	0.0%	0	0.0%	0	0.0%
86WED	0	0.0%	0	0.0%	0	0.0%	0	0.0%
87DQN	0	0.0%	0	0.0%	0	0.0%	0	0.0%
87WED	0	0.0%	0	0.0%	0	0.0%	0	0.0%
883GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
88WED	0	0.0%	0	0.0%	0	0.0%	0	0.0%
904NA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
905NA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
90MPL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
90STG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
91MPL	0	0.0%	0	0.0%	0	0.0%	0	0.0%
91STG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
920DO	0	0.0%	0	0.0%	0	0.0%	0	0.0%
92CHI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
92STG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
93CHI	0	0.0%	0	0.0%	0	0.0%	0	0.0%
93STG	0	0.0%	0	0.0%	0	0.0%	0	0.0%
969NA	0	0.0%	0	0.0%	0	0.0%	0	0.0%
981GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
982GR	0	0.0%	0	0.0%	0	0.0%	0	0.0%
98SPU	0	0.0%	0	0.0%	0	0.0%	0	0.0%
99SPU	0	0.0%	0	0.0%	0	0.0%	0	0.0%

Wood	Wood Percent Failures
1	0.1%
0	0.0%
0	0.0%
0	0.0%
1	0.1%
0	0.0%
1	0.1%
0	0.0%
2	0.1%
1	0.1%
0	0.0%
0	0.0%
3	0.4%
0	0.0%
5	0.6%
2	0.6%
0	0.0%
0	0.0%
3	0.2%
1	0.1%
1	0.1%
2	0.3%
1	0.1%
0	0.0%
0	0.0%
1	0.2%
0	0.0%
0	0.0%
1	0.1%
1	0.1%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
1	0.4%
1	0.1%
0	0.0%
1	0.1%
0	0.0%
1	0.0%
4	0.2%
0	0.0%
0	0.0%
2	0.2%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
2	0.1%
0	0.0%
0	0.0%
1	0.1%
0	0.0%
1	0.4%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
3	0.1%
2	0.2%
1	0.2%
1	0.1%
0	0.0%
10	0.2%
2	0.1%
1	0.1%
4	0.8%
1	0.1%
1	0.1%
2	0.1%
3	0.1%

1	0.0%
3	0.2%
2	0.2%
0	0.0%
0	0.0%
0	0.0%
3	0.2%
1	0.1%
6	0.2%
2	0.5%
0	0.0%
0	0.0%
2	0.1%
2	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
18	2.0%
35	1.5%
0	0.0%
5	0.4%
0	0.0%
3	0.2%
7	0.2%
11	0.7%
8	1.1%
4	0.5%
1	0.2%
17	0.8%
7	1.1%
1	0.1%
2	0.2%
0	0.0%
0	0.0%
1	0.1%
0	0.0%
1	0.1%
7	1.9%
6	0.1%
29	1.1%
3	0.3%
5	0.5%
3	0.7%
1	0.6%
0	0.0%
0	0.0%
6	0.5%
0	0.0%
32	1.4%
35	0.8%
0	0.0%
3	0.6%
0	0.0%
0	0.0%
16	1.0%
0	0.0%
2	0.3%
1	0.1%
3	0.2%
0	0.0%
0	0.0%
3	0.7%
0	0.0%
0	0.0%
0	0.0%
3	0.2%
1	0.0%
10	0.5%
8	0.3%
5	0.4%
0	0.0%
0	0.0%
1	0.1%
0	0.0%
1	0.2%
1	0.0%
0	0.0%

0	0.0%
0	0.0%
0	0.0%
20	1.1%
3	0.1%
4	0.2%
11	0.3%
3	0.3%
1	0.1%
79	0.9%
42	0.6%
1	0.4%
0	0.0%
0	0.0%
2	0.1%
2	0.1%
0	0.0%
3	0.1%
0	0.0%
0	0.0%
0	0.0%
1	0.1%
2	0.3%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
1	0.1%
1	0.1%
0	0.0%
0	0.0%
0	0.0%
1	0.1%
0	0.0%
4	0.1%
1	0.1%
0	0.0%
4	0.6%
1	0.1%
1	0.1%
1	0.1%
1	0.1%
0	0.0%
3	0.1%
0	0.0%
1	0.0%
1	0.1%
1	0.2%
0	0.0%
1	0.7%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
3	0.1%
0	0.0%
0	0.0%
0	0.0%
3	0.2%
2	0.2%
11	1.3%
4	2.3%
13	0.5%
1	0.5%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
13	0.4%
17	0.7%
1	0.1%
0	0.0%
4	0.2%
3	0.1%
5	0.6%

2	0.2%
0	0.0%
0	0.0%
2	0.1%
1	0.1%
1	0.2%
1	0.2%
1	0.1%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
2	0.0%
1	0.1%
1	0.1%
25	1.6%
5	0.7%
0	0.0%
1	0.0%
3	0.3%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
1	0.1%
0	0.0%
1	0.1%
1	0.1%
4	0.3%
5	0.5%
4	0.5%
0	0.0%
1	0.1%
0	0.0%
0	0.0%
0	0.0%
2	1.4%
0	0.0%
2	0.6%
0	0.0%
0	0.0%

2	1.2%
3	1.3%
0	0.0%
0	0.0%
2	0.2%
10	0.3%
0	0.0%
0	0.0%
2	0.2%
0	0.0%
0	0.0%
0	0.0%
3	0.6%
2	0.1%
3	0.2%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
4	0.2%
0	0.0%
0	0.0%
2	0.1%
0	0.0%
2	0.1%
0	0.0%
9	0.3%
0	0.0%
0	0.0%
0	0.0%
3	0.3%
0	0.0%
1	0.1%
0	0.0%
0	0.0%
0	0.0%
3	0.2%
10	0.7%
0	0.0%
1	0.4%
0	0.0%
2	0.2%
12	2.4%
1	0.1%
5	0.4%
4	1.1%
4	0.2%
2	0.2%
0	0.0%
0	0.0%
5	1.1%
3	3.6%
0	0.0%
0	0.0%
0	0.0%
5	1.0%
2	0.2%
0	0.0%
3	0.5%
1	0.6%
0	0.0%
4	0.4%
7	0.9%
0	0.0%
6	0.2%
4	1.1%
0	0.0%
0	0.0%
5	0.1%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
4	0.4%

0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
0	0.0%
2	0.1%
1	0.1%
2	0.1%
6	0.1%
1	0.2%
0	0.0%
0	0.0%
0	0.0%
6	0.1%
2	0.1%
1	0.1%
2	0.1%
0	0.0%
0	0.0%
0	0.0%
1	0.0%
0	0.0%
0	0.0%

Circuit Name	Concrete	Concrete Failure Cause	Fiberglass	Fiberglass Failure Cause	Steel	Steel Failure Cause	Street Light
100BL	0	None	0	None	0	None	0
101BL	0	None	0	None	0	None	0
102CD	0	None	0	None	0	None	0
102LA	0	None	0	None	0	None	0
103CD	0	None	0	None	0	None	0
104CD	0	None	0	None	0	None	0
104SL	0	None	0	None	0	None	0
105CD	0	None	0	None	0	None	0
105SL	0	None	0	None	0	None	0
106HM	0	None	0	None	0	None	0
107HM	0	None	0	None	0	None	0
110MC	0	None	0	None	0	None	0
111MC	0	None	0	None	0	None	0
111WS	0	None	0	None	0	None	0
112MC	0	None	0	None	0	None	0
112WS	0	None	0	None	0	None	0
113MC	0	None	0	None	0	None	0
113WS	0	None	0	None	0	None	0
119RB	0	None	0	None	0	None	0
120EL	0	None	0	None	0	None	0
121EL	0	None	0	None	0	None	0
122EL	0	None	0	None	0	None	0
123EL	0	None	0	None	0	None	0
127SO	0	None	0	None	0	None	0
129VI	0	None	0	None	0	None	0
130CE	0	None	0	None	0	None	0
130VI	0	None	0	None	0	None	0
131CE	0	None	0	None	0	None	0
131VI	0	None	0	None	0	None	0
132CE	0	None	0	None	0	None	0
132VI	0	None	0	None	0	None	0
133CE	0	None	0	None	0	None	0
134TG	0	None	0	None	0	None	0
135TG	0	None	0	None	0	None	0
137TG	0	None	0	None	0	None	0
141LV	0	None	0	None	0	None	0
142LV	0	None	0	None	0	None	0
151RS	0	None	0	None	0	None	0
153RS	0	None	0	None	0	None	0
154BE	0	None	0	None	0	None	0
155BE	0	None	0	None	0	None	0
156BE	0	None	0	None	0	None	0
157HA	0	None	0	None	0	None	0
159CH	0	None	0	None	0	None	0
15LCN	0	None	0	None	0	None	0
160CH	0	None	0	None	0	None	0
161VD	0	None	0	None	0	None	0
162VD	0	None	0	None	0	None	0
163VD	0	None	0	None	0	None	0
164VD	0	None	0	None	0	None	0
165CH	0	None	0	None	0	None	0
166CH	0	None	0	None	0	None	0
16LCN	0	None	0	None	0	None	0
17LOB	0	None	0	None	0	None	0
180AM	0	None	0	None	0	None	0
182AM	0	None	0	None	0	None	0
184PS	0	None	0	None	0	None	0
185PS	0	None	0	None	0	None	0
18LOB	0	None	0	None	0	None	0
18WWK	0	None	0	None	0	None	0
193NE	0	None	0	None	0	None	0
194NE	0	None	0	None	0	None	0
195CR	0	None	0	None	0	None	0
197NE	0	None	0	None	0	None	0
198CR	0	None	0	None	0	None	0
201SD	0	None	0	None	0	None	0
202SD	0	None	0	None	0	None	0
204TB	0	None	0	None	0	None	0
206TB	0	None	0	None	0	None	0
207TB	0	None	0	None	0	None	0
211BA	0	None	0	None	0	None	0
212BA	0	None	0	None	0	None	0
213BA	0	None	0	None	0	None	0
21NOE	0	None	0	None	0	None	0
226HI	0	None	0	None	0	None	0
227HI	0	None	0	None	0	None	0
22HKS	0	None	0	None	0	None	0
22YAN	0	None	0	None	0	None	0
231ST	0	None	0	None	0	None	0
232ST	0	None	0	None	0	None	0
233ST	0	None	0	None	0	None	0

238CR	0	None	0	None	0	None	0
239CR	0	None	0	None	0	None	0
23HKS	0	None	0	None	0	None	0
23YAN	0	None	0	None	0	None	0
240WS	0	None	0	None	0	None	0
241WS	0	None	0	None	0	None	0
250BY	0	None	0	None	0	None	0
251KP	0	None	0	None	0	None	0
257GV	0	None	0	None	0	None	0
25HKS	0	None	0	None	0	None	0
261TR	0	None	0	None	0	None	0
268RV	0	None	0	None	0	None	0
269RV	0	None	0	None	0	None	0
26HRN	0	None	0	None	0	None	0
26NOE	0	None	0	None	0	None	0
270BC	0	None	0	None	0	None	0
27NOE	0	None	0	None	0	None	0
280ML	0	None	0	None	0	None	0
281ML	0	None	0	None	0	None	0
28NOE	0	None	0	None	0	None	0
29NOE	0	None	0	None	0	None	0
304NC	0	None	0	None	0	None	0
307SP	0	None	0	None	0	None	0
308FR	0	None	0	None	0	None	0
308SP	0	None	0	None	0	None	0
309SP	0	None	0	None	0	None	0
30BRC	0	None	0	None	0	None	0
310SP	0	None	0	None	0	None	0
311SP	0	None	0	None	0	None	0
316TA	0	None	0	None	0	None	0
317TA	0	None	0	None	0	None	0
31BRC	0	None	0	None	0	None	0
320AP	0	None	0	None	0	None	0
321AP	0	None	0	None	0	None	0
324CO	0	None	0	None	0	None	0
325CO	0	None	0	None	0	None	0
326CO	0	None	0	None	0	None	0
327CO	0	None	0	None	0	None	0
32BRC	0	None	0	None	0	None	0
330AD	0	None	0	None	0	None	0
332AD	0	None	0	None	0	None	0
333NC	0	None	0	None	0	None	0
334NC	0	None	0	None	0	None	0
335NC	0	None	0	None	0	None	0
336NC	0	None	0	None	0	None	0
337NC	0	None	0	None	0	None	0
338NC	0	None	0	None	0	None	0
33BRC	0	None	0	None	0	None	0
340WN	0	None	0	None	0	None	0
341WN	0	None	0	None	0	None	0
342JT	0	None	0	None	0	None	0
342WN	0	None	0	None	0	None	0
343JT	0	None	0	None	0	None	0
345JT	0	None	0	None	0	None	0
345OI	0	None	0	None	0	None	0
346JT	0	None	0	None	0	None	0
34KOL	0	None	0	None	0	None	0
350ON	0	None	0	None	0	None	0
350PW	0	None	0	None	0	None	0
351ON	0	None	0	None	0	None	0
351PW	0	None	0	None	0	None	0
352ON	0	None	0	None	0	None	0
35HDN	0	None	0	None	0	None	0
35KOL	0	None	0	None	0	None	0
360BD	0	None	0	None	0	None	0
360HT	0	None	0	None	0	None	0
361BD	0	None	0	None	0	None	0
361HT	0	None	0	None	0	None	0
362BD	0	None	0	None	0	None	0
362HT	0	None	0	None	0	None	0
363BD	0	None	0	None	0	None	0
363HT	0	None	0	None	0	None	0
364HT	0	None	0	None	0	None	0
365HT	0	None	0	None	0	None	0
36KOL	0	None	0	None	0	None	0
374MR	0	None	0	None	0	None	0
375MR	0	None	0	None	0	None	0
37KOL	0	None	0	None	0	None	0
37TYR	0	None	0	None	0	None	0
380MC	0	None	0	None	0	None	0
381MC	0	None	0	None	0	None	0
382MC	0	None	0	None	0	None	0

392WO	0	None	0	None	0	None	0
393WO	0	None	0	None	0	None	0
403CV	0	None	0	None	0	None	0
404CV	0	None	0	None	0	None	0
405CV	0	None	0	None	0	None	0
406CV	0	None	0	None	0	None	0
40LNB	0	None	0	None	0	None	0
41LNB	0	None	0	None	0	None	0
425CV	0	None	0	None	0	None	0
426CV	0	None	0	None	0	None	0
42LNB	0	None	0	None	0	None	0
432KT	0	None	0	None	0	None	0
433TI	0	None	0	None	0	None	0
436TI	0	None	0	None	0	None	0
437TI	0	None	0	None	0	None	0
43LNB	0	None	0	None	0	None	0
441LU	0	None	0	None	0	None	0
452KT	0	None	0	None	0	None	0
453KT	0	None	0	None	0	None	0
456FL	0	None	0	None	0	None	0
457FL	0	None	0	None	0	None	0
45PTN	0	None	0	None	0	None	0
461SI	0	None	0	None	0	None	0
462SI	0	None	0	None	0	None	0
463SI	0	None	0	None	0	None	0
46PTN	0	None	0	None	0	None	0
471NS	0	None	0	None	0	None	0
472NS	0	None	0	None	0	None	0
476MD	0	None	0	None	0	None	0
477MD	0	None	0	None	0	None	0
478MD	0	None	0	None	0	None	0
479MD	0	None	0	None	0	None	0
48TCO	0	None	0	None	0	None	0
491LI	0	None	0	None	0	None	0
4CAL	0	None	0	None	0	None	0
504CN	0	None	0	None	0	None	0
505CN	0	None	0	None	0	None	0
506CN	0	None	0	None	0	None	0
506WR	0	None	0	None	0	None	0
507CN	0	None	0	None	0	None	0
50FTW	0	None	0	None	0	None	0
511CN	0	None	0	None	0	None	0
512CN	0	None	0	None	0	None	0
513CN	0	None	0	None	0	None	0
514CN	0	None	0	None	0	None	0
515CN	0	None	0	None	0	None	0
516CN	0	None	0	None	0	None	0
519DO	0	None	0	None	0	None	0
51FTW	0	None	0	None	0	None	0
520BW	0	None	0	None	0	None	0
521BW	0	None	0	None	0	None	0
522BW	0	None	0	None	0	None	0
525PA	0	None	0	None	0	None	0
528CM	0	None	0	None	0	None	0
529CM	0	None	0	None	0	None	0
52FTW	0	None	0	None	0	None	0
535SH	0	None	0	None	0	None	0
536SH	0	None	0	None	0	None	0
537LA	0	None	0	None	0	None	0
538LA	0	None	0	None	0	None	0
539LA	0	None	0	None	0	None	0
53BAT	0	None	0	None	0	None	0
540LA	0	None	0	None	0	None	0
544JT	0	None	0	None	0	None	0
545PL	0	None	0	None	0	None	0
546PL	0	None	0	None	0	None	0
549JT	0	None	0	None	0	None	0
54FTW	0	None	0	None	0	None	0
550EP	0	None	0	None	0	None	0
551EP	0	None	0	None	0	None	0
552EP	0	None	0	None	0	None	0
560WD	0	None	0	None	0	None	0
562WD	0	None	0	None	0	None	0
563WD	0	None	0	None	0	None	0
566CR	0	None	0	None	0	None	0
567CR	0	None	0	None	0	None	0
568DC	0	None	0	None	0	None	0
569DC	0	None	0	None	0	None	0
570CR	0	None	0	None	0	None	0
570DC	0	None	0	None	0	None	0
572CN	0	None	0	None	0	None	0
574CN	0	None	0	None	0	None	0

575CN	0	None	0	None	0	None	0
576CN	0	None	0	None	0	None	0
577CN	0	None	0	None	0	None	0
580LM	0	None	0	None	0	None	0
581LM	0	None	0	None	0	None	0
582LM	0	None	0	None	0	None	0
583LM	0	None	0	None	0	None	0
584LM	0	None	0	None	0	None	0
585LM	0	None	0	None	0	None	0
590AP	0	None	0	None	0	None	0

591AP	0	None	0	None	0	None	0
592AP	0	None	0	None	0	None	0
592WR	0	None	0	None	0	None	0
593WD	0	None	0	None	0	None	0
594WD	0	None	0	None	0	None	0
598TA	0	None	0	None	0	None	0
599TA	0	None	0	None	0	None	0
59GRO	0	None	0	None	0	None	0
600HU	0	None	0	None	0	None	0
607HU	0	None	0	None	0	None	0
608HU	0	None	0	None	0	None	0
609HU	0	None	0	None	0	None	0
60CRK	0	None	0	None	0	None	0
610HU	0	None	0	None	0	None	0
611HU	0	None	0	None	0	None	0
61CRK	0	None	0	None	0	None	0
61GRO	0	None	0	None	0	None	0
627TE	0	None	0	None	0	None	0
628TE	0	None	0	None	0	None	0
62GRO	0	None	0	None	0	None	0
632WT	0	None	0	None	0	None	0
633WT	0	None	0	None	0	None	0
634WT	0	None	0	None	0	None	0
63CRK	0	None	0	None	0	None	0
63GRO	0	None	0	None	0	None	0
64CRK	0	None	0	None	0	None	0
650VT	0	None	0	None	0	None	0
651VT	0	None	0	None	0	None	0
652VT	0	None	0	None	0	None	0
653VT	0	None	0	None	0	None	0
654VT	0	None	0	None	0	None	0
655VT	0	None	0	None	0	None	0
657VT	0	None	0	None	0	None	0
65CRK	0	None	0	None	0	None	0
65MAN	0	None	0	None	0	None	0
66MAN	0	None	0	None	0	None	0
670GE	0	None	0	None	0	None	0
673MA	0	None	0	None	0	None	0
674MA	0	None	0	None	0	None	0
67MAN	0	None	0	None	0	None	0
67PTA	0	None	0	None	0	None	0
681GR	0	None	0	None	0	None	0
681VI	0	None	0	None	0	None	0
682GR	0	None	0	None	0	None	0
682Vi	0	None	0	None	0	None	0
68PTA	0	None	0	None	0	None	0
69PTA	0	None	0	None	0	None	0
6CAL	0	None	0	None	0	None	0
702GL	0	None	0	None	0	None	0
704GL	0	None	0	None	0	None	0
706GL	0	None	0	None	0	None	0
707GL	0	None	0	None	0	None	0
708GL	0	None	0	None	0	None	0
70ECH	0	None	0	None	0	None	0
70PAS	0	None	0	None	0	None	0
711MG	0	None	0	None	0	None	0
714SL	0	None	0	None	0	None	0
719ME	0	None	0	None	0	None	0
71ECH	0	None	0	None	0	None	0
723DY	0	None	0	None	0	None	0
723ME	0	None	0	None	0	None	0
724DY	0	None	0	None	0	None	0
725DY	0	None	0	None	0	None	0
726DY	0	None	0	None	0	None	0
727DY	0	None	0	None	0	None	0
72ECH	0	None	0	None	0	None	0
731SN	0	None	0	None	0	None	0
733SN	0	None	0	None	0	None	0
736CY	0	None	0	None	0	None	0
737CY	0	None	0	None	0	None	0
738CY	0	None	0	None	0	None	0
739CY	0	None	0	None	0	None	0
73ECH	0	None	0	None	0	None	0
73RAY	0	None	0	None	0	None	0
740OK	0	None	0	None	0	None	0
741DA	0	None	0	None	0	None	0
741OK	0	None	0	None	0	None	0
742OK	0	None	0	None	0	None	0
743DA	0	None	0	None	0	None	0
743OK	0	None	0	None	0	None	0
744DA	0	None	0	None	0	None	0
744OK	0	None	0	None	0	None	0

745OK	0	None	0	None	0	None	0
74RAY	0	None	0	None	0	None	0
750FO	0	None	0	None	0	None	0
751FO	0	None	0	None	0	None	0
752FO	0	None	0	None	0	None	0
753FO	0	None	0	None	0	None	0
754FO	0	None	0	None	0	None	0
755FO	0	None	0	None	0	None	0
757FO	0	None	0	None	0	None	0
758FO	0	None	0	None	0	None	0
759FO	0	None	0	None	0	None	0
75RAY	0	None	0	None	0	None	0
761SA	0	None	0	None	0	None	0
762AL	0	None	0	None	0	None	0
765AL	0	None	0	None	0	None	0
76JRU	0	None	0	None	0	None	0
770AL	0	None	0	None	0	None	0
771AL	0	None	0	None	0	None	0
77JRU	0	None	0	None	0	None	0
781EG	0	None	0	None	0	None	0
782PW	0	None	0	None	0	None	0
78JRU	0	None	0	None	0	None	0
801FE	0	None	0	None	0	None	0
806PD	0	None	0	None	0	None	0
808PD	0	None	0	None	0	None	0
809PD	0	None	0	None	0	None	0
80LAV	0	None	0	None	0	None	0
80WED	0	None	0	None	0	None	0
810PD	0	None	0	None	0	None	0
819MD	0	None	0	None	0	None	0
81LAV	0	None	0	None	0	None	0
82WED	0	None	0	None	0	None	0
84DQN	0	None	0	None	0	None	0
85DQN	0	None	0	None	0	None	0
85WED	0	None	0	None	0	None	0
86WED	0	None	0	None	0	None	0
87DQN	0	None	0	None	0	None	0
87WED	0	None	0	None	0	None	0
883GR	0	None	0	None	0	None	0
88WED	0	None	0	None	0	None	0
904NA	0	None	0	None	0	None	0
905NA	0	None	0	None	0	None	0
90MPL	0	None	0	None	0	None	0
90STG	0	None	0	None	0	None	0
91MPL	0	None	0	None	0	None	0
91STG	0	None	0	None	0	None	0
920DO	0	None	0	None	0	None	0
92CHI	0	None	0	None	0	None	0
92STG	0	None	0	None	0	None	0
93CHI	0	None	0	None	0	None	0
93STG	0	None	0	None	0	None	0
969NA	0	None	0	None	0	None	0
981GR	0	None	0	None	0	None	0
982GR	0	None	0	None	0	None	0
98SPU	0	None	0	None	0	None	0
99SPU	0	None	0	None	0	None	0

Street Light Failure Cause	Wood	Cause and Point of Failure (where available)
None	1	Lightning
None	0	Lightning
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Lightning
None	1	Equipment Failure - Equipment Failure - Air Break / Disconnect Switch
None	0	Lightning
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	2	Equipment Failure - Equipment Failure - Pole
None	1	Equipment Failure - Equipment Failure - Transformer
None	0	Lightning
None	0	Lightning
None	3	Vegetation - Overhanging Limb
None	0	Lightning
None	5	Equipment Failure - Equipment Failure - Pole
None	2	Equipment Failure - Neutral Conductor
None	0	Lightning
None	0	Equipment Failure - Primary Conductor
None	3	Equipment Failure - Equipment Failure - Fuse Switch
None	1	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Overhanging Limb
None	1	Vegetation - Tree/Limb Growing Inside R.O.W.
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Lightning
None	1	Equipment Failure - Equipment Failure - Transformer
None	0	Lightning
None	0	Overhanging Limb
None	1	Vegetation - Tree On Line Outside R.O.W.
None	1	Secondary/Service Conductor
None	0	Secondary/Service Conductor
None	0	Equipment Failure - Crossarm
None	0	Equipment Failure - Primary Conductor
None	0	Lightning
None	0	Lightning
None	0	Lightning
None	0	Foreign Objects - Other
None	0	Inspected Unknown
None	0	Lightning
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Lightning
None	0	Lightning
None	1	Other
None	1	Equipment Failure - Equipment Failure - Crossarm
None	0	Lightning
None	1	Equipment Failure - Pole
None	0	Equipment Failure - Fuse Switch
None	1	Vegetation - Tree On Line Outside R.O.W.
None	4	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Lightning
None	2	Equipment Failure - Equipment Failure - Arrestor
None	0	Lightning
None	0	Secondary/Service Conductor
None	0	Tree On Line Outside R.O.W.
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Lightning
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Lightning
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Other (Describe in Remarks Field)
None	1	Equipment Failure - Equipment Failure - Pole
None	0	Other (Describe in Remarks Field)
None	0	Lightning
None	0	Lightning
None	0	Equipment Failure - Fuse Switch
None	3	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Overhanging Limb
None	1	Equipment Failure - Equipment Failure - Crossarm
None	1	Equipment Failure - Equipment Failure - Sectionalizer
None	0	Inspected Unknown
None	10	Equipment Failure - Equipment Failure - Pole
None	2	Vegetation - Tree On Line Outside R.O.W.
None	1	Equipment Failure - Equipment Failure - Insulator
None	4	Unknown - Under Investigation
None	1	Equipment Failure - Equipment Failure - Other (Describe in Remarks Field)
None	1	Equipment Failure - Equipment Failure - Pole
None	2	Equipment Failure - Equipment Failure - Automatic Sleeve
None	3	Vegetation - Overhanging Limb
None	1	Vegetation - Tree On Line Outside R.O.W.

None	3	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Slack Conductor / Inadequate Phase Spacing
None	0	Lightning
None	0	Lightning
None	3	Equipment Failure - Equipment Failure - Pole
None	1	Equipment Failure - Equipment Failure - Pole
None	6	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Lightning
None	2	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Slack Conductor / Inadequate Phase Spacing
None	0	Slack Conductor / Inadequate Phase Spacing
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Lightning
None	0	Overhanging Limb
None	0	Tree On Line Outside R.O.W
None	0	Lightning
None	0	Tree On Line Outside R.O.W.
None	18	Vegetation - Tree on Line from Inside R.O.W
None	35	Vegetation - Tree/Limb Growing Inside R.O.W.
None	0	Overhanging Limb
None	5	Other
None	0	Tree Fell On Line From Outside R.O.W
None	3	Vegetation - Overhanging Limb
None	7	Vegetation - Tree On Line Outside R.O.W.
None	11	Vegetation - Tree On Line Outside R.O.W.
None	8	Vegetation - Tree On Line Outside R.O.W.
None	4	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Overhanging Limb
None	17	Equipment Failure - Equipment Failure - Pole
None	7	Transmission Line Out
None	1	Equipment Failure - Equipment Failure - Transformer
None	2	Vegetation - Vine Growing into Line
None	0	Overhanging Limb
None	0	Secondary/Service Conductor
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	No reason assigned for the outage.
None	1	Equipment Failure - Equipment Failure - Pole
None	7	Vegetation - Tree On Line Outside R.O.W.
None	6	Vegetation - Tree On Line Outside R.O.W.
None	29	Vegetation - Tree On Line Outside R.O.W.
None	3	Vegetation - Tree On Line Outside R.O.W.
None	5	Vegetation - Tree On Line Outside R.O.W.
None	3	Other
None	1	Lightning
None	0	Overhanging Limb
None	0	Tree On Line Outside R.O.W.
None	6	Vegetation - Tree On Line Outside R.O.W.
None	0	Vine Growing into Line
None	32	Vegetation - Tree On Line Outside R.O.W.
None	35	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside of R.O.W
None	0	Tree On Line Outside R.O.W.
None	16	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Vine Growing into Line
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Tree On Line Outside of R.O.W
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Overhanging Limb
None	0	Lightning
None	3	Vegetation - Overhanging Limb
None	1	Vegetation - Tree On Line Outside R.O.W.
None	10	Vegetation - Tree/Limb Growing Inside R.O.W.
None	8	Vegetation - Tree On Line Outside R.O.W.
None	5	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Tree On Line Outside R.O.W.
None	1	Equipment Failure - Equipment Failure - Insulator
None	0	Fire - Other (Describe in Remarks Field)
None	1	Vegetation - Tree/Limb Growing Inside R.O.W.
None	1	Vegetation - Tree/Limb Growing Inside R.O.W.
None	0	Vine Growing into Line
None	0	Equipment Failure - Transformer

None	0	Crossarm
None	0	Equipment Failure - Crossarm
None	20	Vegetation - Tree On Line Outside R.O.W.
None	3	Vegetation - Tree On Line Outside R.O.W.
None	4	Vegetation - Tree On Line Outside R.O.W.
None	11	Equipment Failure - Equipment Failure - Pole
None	3	Vegetation - Tree On Line Outside R.O.W.
None	1	Equipment Failure - Equipment Failure - Pole
None	79	Vegetation - Tree On Line Outside R.O.W.
None	42	Vegetation - Tree On Line Outside R.O.W.
None	1	Lightning
None	0	Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Foreign Objects - Other
None	3	Vegetation - Tree on Line from Inside R.O.W
None	0	Shielding w/ Direct Stroke to Phase Conductor
None	0	Tree on Line from Inside R.O.W
None	0	Tree On Line Outside R.O.W.
None	1	Vegetation - Tree on Line from Inside R.O.W
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside of R.O.W.
None	0	Tree on Line from Inside R.O.W
None	0	Lightning
None	0	Tree/Limb Growing Inside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Slack Conductor / Inadequate Phase Spacing
None	0	Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Overhanging Limb
None	1	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Overhanging Limb
None	0	Tree On Line Outside R.O.W.
None	0	Lightning
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree on Line from Inside R.O.W
None	4	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	4	Vegetation - Tree on Line from Inside R.O.W
None	1	Vegetation - Tree on Line from Inside R.O.W
None	1	Vegetation - Tree on Line from Inside R.O.W
None	1	Vegetation - Tree on Line from Inside R.O.W
None	1	Vegetation - Tree on Line from Inside R.O.W
None	0	Tree On Line Outside of R.O.W.
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	1	Vegetation - Tree on Line from Inside R.O.W
None	1	Equipment Failure - Equipment Failure - Air Break / Disconnect Switch
None	1	Equipment Failure - Equipment Failure - Other (Describe in Remarks Field)
None	0	Vegetation Outside Fence
None	1	Vegetation - Tree on Line from Inside R.O.W
None	0	Overhanging Limb
None	0	Equipment Failure - Crossarm
None	0	Tree On Line Outside of R.O.W.
None	0	Tree On Line Outside of R.O.W.
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Tree On Line Outside R.O.W
None	0	Lightning
None	3	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	11	Vegetation - Vegetation Outside Fence
None	4	Vegetation - Vegetation Outside Fence
None	13	Vegetation - Tree On Line Outside R.O.W.
None	1	Equipment Failure - Shield Conductor
None	0	Inspected Unknown
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Equipment Failure - Pole
None	0	Tree On Line Outside R.O.W
None	0	Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	13	Vegetation - Tree On Line Outside R.O.W.
None	17	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Overhanging Limb
None	0	Tree/Limb Growing Inside R.O.W.
None	4	Vegetation - Tree On Line Outside R.O.W.
None	3	Vegetation - Tree On Line Outside R.O.W.
None	5	Vegetation - Tree on Line from Inside R.O.W
None	2	Vegetation - Tree On Line Outside R.O.W.

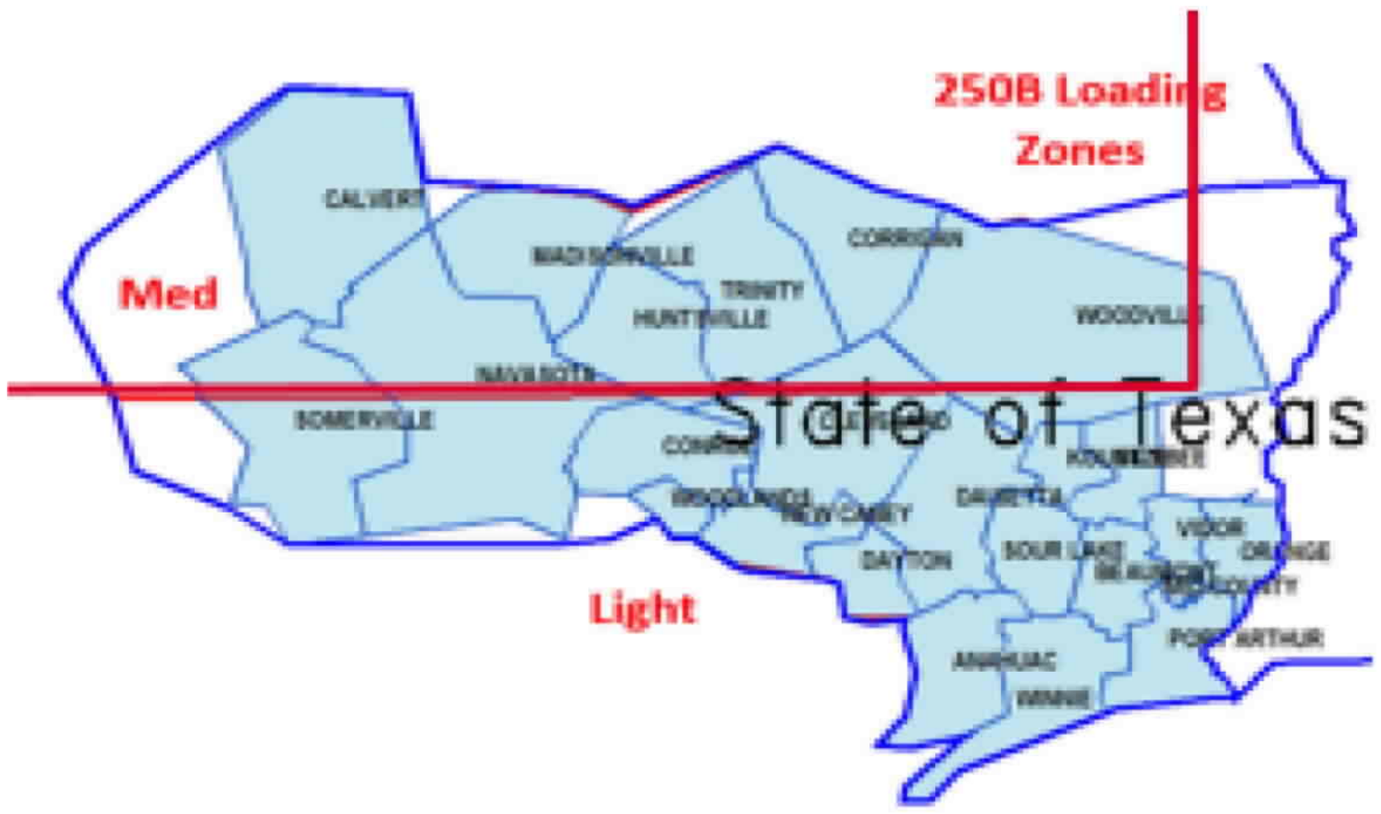
None	0	Tree On Line Outside R.O.W
None	0	Tree On Line Outside R.O.W
None	2	Vegetation - Tree/Limb Growing Inside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	1	Equipment Failure - Equipment Failure - Pole
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Overhanging Limb
None	0	Tree On Line Outside R.O.W

None	0	Tree On Line Outside R.O.W
None	0	Lightning
None	2	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	25	Vegetation - Tree On Line Outside R.O.W.
None	5	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	1	Vegetation - Tree On Line Outside R.O.W.
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Equipment Failure - Crossarm
None	0	Equipment Failure - Crossarm
None	1	Vegetation - Tree on Line from Inside R.O.W
None	0	Lightning
None	1	Other
None	1	Vegetation - Tree On Line Outside R.O.W.
None	4	Vegetation - Tree On Line Outside R.O.W.
None	5	Equipment Failure - Equipment Failure - Pole
None	4	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W
None	1	Vegetation - Tree On Line Outside R.O.W.
None	0	Equipment Failure - Connector Sleeve
None	0	Equipment Failure - Primary Conductor
None	0	Lightning
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree on Line from Inside R.O.W
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Lightning
None	2	Vegetation - Tree On Line Outside R.O.W.
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Overhanging Limb
None	2	Vegetation - Overhanging Limb
None	10	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W
None	0	Tree On Line Outside R.O.W.
None	2	Equipment Failure - Equipment Failure - Pole
None	0	Slack Conductor / Inadequate Phase Spacing
None	0	Lightning
None	0	Equipment Failure - Neutral Conductor
None	3	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Tree/Limb Growing Inside R.O.W.
None	3	Equipment Failure - Equipment Failure - Other (Describe in Remarks Field)
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Lightning
None	0	Loss of Source
None	0	Lightning
None	0	Loss of Source
None	0	Loss of Source
None	0	Loss of Source
None	0	Secondary/Service Conductor
None	0	Lightning
None	4	Vegetation - Tree On Line Outside R.O.W.
None	0	Transmission Other (Describe in remarks)
None	0	Transmission Other (Describe in remarks)
None	0	Lightning
None	2	Equipment Failure - Substation Switch - Disconnect
None	0	Transmission Other (Describe in remarks)
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Equipment Failure - Crossarm
None	9	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Lightning
None	3	Vegetation - Tree On Line Outside R.O.W.
None	0	Equipment Failure - Primary Conductor
None	1	Equipment Failure - Equipment Failure - Crossarm
None	0	Secondary/Service Conductor
None	0	Lightning
None	0	Lightning
None	3	Equipment Failure - Equipment Failure - Pole
None	10	Vegetation - Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W
None	1	Secondary/Service Conductor
None	0	Loss of Source
None	2	Vegetation - Tree On Line Outside R.O.W.
None	12	Vegetation - Tree On Line Outside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	5	Vegetation - Tree On Line Outside R.O.W.

None	4	Equipment Failure - Equipment Failure - Pole
None	4	Equipment Failure - Equipment Failure - Pole
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Loss of Source
None	0	Lightning
None	5	Lightning
None	3	Equipment Failure - Transformer
None	0	Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	0	Tree On Line Outside R.O.W.
None	5	Vegetation - Tree On Line Outside R.O.W.
None	2	Lightning
None	0	Transmission Other (Describe in remarks)
None	3	Equipment Failure - Equipment Failure - Transformer
None	1	Equipment Failure - Equipment Failure - Transformer
None	0	Lightning
None	4	Vegetation - Tree On Line Outside R.O.W.
None	7	Lightning
None	0	Vine Growing into Line
None	6	Equipment Failure - Equipment Failure - Pole
None	4	Vegetation - Tree On Line Outside R.O.W.
None	0	Lightning
None	0	Lightning
None	5	Equipment Failure - Equipment Failure - Pole
None	0	Equipment Failure - Primary Conductor
None	0	Tree/Limb Growing Inside R.O.W.
None	0	Equipment Failure - Neutral Conductor
None	0	Tree On Line Outside R.O.W
None	0	Tree On Line Outside R.O.W
None	0	Tree On Line Outside R.O.W
None	4	Equipment Failure - Equipment Failure - Crossarm
None	0	Lightning
None	0	Lightning
None	0	Conductor
None	0	Lightning
None	0	Equipment Failure - Primary Conductor
None	0	Conductor
None	0	Lightning
None	2	Vegetation - Tree/Limb Growing Inside R.O.W.
None	1	Vegetation - Tree On Line Outside R.O.W.
None	2	Vegetation - Tree/Limb Growing Inside R.O.W.
None	6	Vegetation - Tree/Limb Growing Inside R.O.W.
None	1	Equipment Failure - Equipment Failure - Pole
None	0	Lightning
None	0	Tree On Line Outside R.O.W
None	0	Lightning
None	6	Vegetation - Tree/Limb Growing Inside R.O.W.
None	2	Vegetation - Tree/Limb Growing Inside R.O.W.
None	1	Vegetation - Tree/Limb Growing Inside R.O.W.
None	2	Vegetation - Tree On Line Outside R.O.W.
None	0	Slack Conductor / Inadequate Phase Spacing
None	0	Overhanging Limb
None	0	Overhanging Limb
None	1	Vegetation - Tree/Limb Growing Inside R.O.W.
None	0	Lightning
None	0	Equipment Failure - Fuse Switch

NESC 250B	Entergy Texas ("ETI") is both within the Medium and Light Loading Zones of the NESC 250B rules (see below map).
NESC 250C	From the adoption of Entergy's new Extreme Wind Standard, new distribution construction is built to Entergy's Extreme Wind Speed standards.

Circuit Name	Entergy's Extreme Wind Speed (mph)
100BL	150
101BL	150
102CD	140
102LA	125
103CD	140
104CD	140
104SL	125
105CD	140
105SL	125
106HM	140
107HM	125
110MC	125
111MC	125
111WS	140
112MC	125
112WS	140
113MC	125
113WS	140
119RB	150
120EL	125
121EL	125
122EL	125
123EL	125
127SO	100
129VI	125
130CE	140
130VI	125
131CE	140
131VI	125
132CE	140
132VI	125
133CE	140
134TG	125
135TG	125
137TG	125
141LV	125
142LV	140
151RS	125
153RS	125
154BE	125
155BE	125
156BE	125
157HA	125
159CH	125
15LCN	125
160CH	125
161VD	125
162VD	125
163VD	125
164VD	125
165CH	125
166CH	125
16LCN	125
17LOB	125
180AM	125
182AM	125
184PS	125
185PS	125
18LOB	125
18WWK	140
193NE	125
194NE	125
195CR	125
197NE	125
198CR	125
201SD	150
202SD	150
204TB	140
206TB	140
207TB	140
211BA	140
212BA	140
213BA	140
21NOE	125
226HI	150
227HI	150
22HKS	140
22YAN	125



231ST	140
232ST	140
233ST	140
238CR	110
239CR	110
23HKS	140
23YAN	125
240WS	140
241WS	140
250BY	140
251KP	100
257GV	100
25HKS	140
261TR	100
268RV	100
269RV	100
26HRN	100
26NOE	125
270BC	125
27NOE	125
280ML	140
281ML	140
28NOE	125
29NOE	125
304NC	110
307SP	125
308FR	125
308SP	110
309SP	125
30BRC	125
310SP	125
311SP	110
316TA	110
317TA	110
31BRC	125
320AP	110
321AP	110
324CO	125
325CO	125
326CO	125
327CO	125
32BRC	125
330AD	125
332AD	125
333NC	110
334NC	125
335NC	110
336NC	110
337NC	110
338NC	110
33BRC	125
340WN	125
341WN	125
342JT	110
342WN	125
343JT	110
345JT	110
345OI	125
346JT	110
34KOL	140
350ON	125
350PW	125
351ON	125
351PW	125
352ON	125
35HDN	125
35KOL	140
360BD	125
360HT	110
361BD	125
361HT	110
362BD	125
362HT	110
363BD	125
363HT	110
364HT	110
365HT	110
36KOL	140
374MR	125
375MR	125
37KOL	140
37TYR	125

380MC	125
381MC	125
382MC	125
392WO	125
393WO	125
403CV	125
404CV	125
405CV	125
406CV	125
40LNB	125
41LNB	125
425CV	110
426CV	110
42LNB	125
432KT	125
433TI	125
436TI	125
437TI	125
43LNB	125
441LU	125
452KT	125
453KT	125
456FL	125
457FL	125
45PTN	140
461SI	125
462SI	125
463SI	125
46PTN	140
471NS	125
472NS	125
476MD	125
477MD	125
478MD	125
479MD	125
48TCO	125
491LI	125
4CAL	100
504CN	110
505CN	110
506CN	110
506WR	110
507CN	110
50FTW	140
511CN	110
512CN	110
513CN	110
514CN	110
515CN	110
516CN	110
519DO	110
51FTW	140
520BW	110
521BW	110
522BW	110
525PA	110
528CM	110
529CM	110
52FTW	140
535SH	110
536SH	110
537LA	110
538LA	110
539LA	110
53BAT	125
540LA	110
544JT	110
545PL	110
546PL	110
549JT	110
54FTW	140
550EP	110
551EP	110
552EP	110
560WD	110
562WD	110
563WD	110
566CR	110
567CR	110
568DC	110
569DC	110
570CR	110

570DC	110
572CN	110
574CN	110
575CN	110
576CN	110
577CN	110
580LM	110
581LM	110
582LM	110
583LM	110
584LM	110
585LM	110
590AP	110
591AP	110
592AP	110
592WR	110
593WD	110
594WD	110
598TA	110
599TA	110
59GRO	140
600HU	100
607HU	100
608HU	100
609HU	100
60CRK	125
610HU	100
611HU	100
61CRK	125
61GRO	140
627TE	100
628TE	100
62GRO	140
632WT	100
633WT	100
634WT	100
63CRK	125
63GRO	140
64CRK	125
650VT	100
651VT	100
652VT	100
653VT	100
654VT	100
655VT	100
657VT	100
65CRK	125
65MAN	140
66MAN	140
670GE	100
673MA	125
674MA	125
67MAN	140
67PTA	140
681GR	100
681VI	125
682GR	100
682Vi	125
68PTA	140
69PTA	140
6CAL	100
702GL	110
704GL	110
706GL	110
707GL	110
708GL	110
70ECH	125
70PAS	140
711MG	125
714SL	125
719ME	110
71ECH	125
723DY	125
723ME	110
724DY	125
725DY	125
726DY	125
727DY	125
72ECH	125
731SN	125
733SN	125
736CY	125

737CY	125
738CY	125
739CY	125
73ECH	125
73RAY	125
740OK	110
741DA	125
741OK	110
742OK	110
743DA	125
743OK	110
744DA	125
744OK	110
745OK	110
74RAY	125
750FO	110
751FO	110
752FO	110
753FO	110
754FO	110
755FO	110
757FO	110
758FO	110
759FO	110
75RAY	125
761SA	125
762AL	110
765AL	110
76JRU	125
770AL	110
771AL	110
77JRU	125
781EG	125
782PW	125
78JRU	125
801FE	140
806PD	100
808PD	100
809PD	100
80LAV	140
80WED	125
810PD	100
819MD	100
81LAV	140
82WED	125
84DQN	140
85DQN	140
85WED	125
86WED	125
87DQN	140
87WED	125
883GR	100
88WED	125
904NA	100
905NA	100
90MPL	125
90STG	140
91MPL	125
91STG	140
920DO	100
92CHI	125
92STG	140
93CHI	125
93STG	140
969NA	100
981GR	100
982GR	100
98SPU	140
99SPU	140

Circuit Name	Future Projects	Estimate Year
100BL	-	TBD
101BL	-	TBD
102CD	Within ETI's Comprehensive Hardening Projects	2031
102LA	-	TBD
103CD	Within ETI's Comprehensive Hardening Projects	2031
104CD	Within ETI's Comprehensive Hardening Projects	2030
104SL	Within ETI's Comprehensive Hardening Projects	2032
105CD	Within ETI's Comprehensive Hardening Projects	2032
105SL	Within ETI's Comprehensive Hardening Projects	2026
106HM	Within ETI's Comprehensive Hardening Projects	2028
107HM	Within ETI's Comprehensive Hardening Projects	2029
110MC	Within ETI's Comprehensive Hardening Projects	2029
111MC	Within ETI's Comprehensive Hardening Projects	2031
111WS	-	TBD
112MC	Within ETI's Comprehensive Hardening Projects	2029
112WS	Within ETI's Comprehensive Hardening Projects	2032
113MC	Within ETI's Comprehensive Hardening Projects	2033
113WS	-	TBD
119RB	Within ETI's Comprehensive Hardening Projects	2033
120EL	Within ETI's Comprehensive Hardening Projects	2029
121EL	Within ETI's Comprehensive Hardening Projects	2033
122EL	Within ETI's Comprehensive Hardening Projects	2031
123EL	Within ETI's Comprehensive Hardening Projects	2033
127SO	Within ETI's Comprehensive Hardening Projects	2029
129VI	Within ETI's Comprehensive Hardening Projects	2034
130CE	Within ETI's Comprehensive Hardening Projects	2031
130VI	Within ETI's Comprehensive Hardening Projects	2030
131CE	Within ETI's Comprehensive Hardening Projects	2031
131VI	Within ETI's Comprehensive Hardening Projects	2028
132CE	Within ETI's Comprehensive Hardening Projects	2029
132VI	Within ETI's Comprehensive Hardening Projects	2031
133CE	Within ETI's Comprehensive Hardening Projects	2032
134TG	Within ETI's Comprehensive Hardening Projects	2033
135TG	-	TBD
137TG	Within ETI's Comprehensive Hardening Projects	2032
141LV	Within ETI's Comprehensive Hardening Projects	2033
142LV	Within ETI's Comprehensive Hardening Projects	2032
151RS	Within ETI's Comprehensive Hardening Projects	2034
153RS	Within ETI's Comprehensive Hardening Projects	2033
154BE	Within ETI's Comprehensive Hardening Projects	2025
155BE	Within ETI's Comprehensive Hardening Projects	2029
156BE	Within ETI's Comprehensive Hardening Projects	2030
157HA	-	TBD
159CH	Within ETI's Comprehensive Hardening Projects	2031
15LCN	Within ETI's Comprehensive Hardening Projects	2032
160CH	Within ETI's Comprehensive Hardening Projects	2029
161VD	Within ETI's Comprehensive Hardening Projects	2029
162VD	Within ETI's Comprehensive Hardening Projects	2030
163VD	Within ETI's Comprehensive Hardening Projects	2033
164VD	Within ETI's Comprehensive Hardening Projects	2033
165CH	Within ETI's Comprehensive Hardening Projects	2029
166CH	Within ETI's Comprehensive Hardening Projects	2029
16LCN	Within ETI's Comprehensive Hardening Projects	2032
17LOB	Within ETI's Comprehensive Hardening Projects	2032
180AM	Within ETI's Comprehensive Hardening Projects	2034
182AM	Within ETI's Comprehensive Hardening Projects	2029
184PS	Within ETI's Comprehensive Hardening Projects	2034
185PS	Within ETI's Comprehensive Hardening Projects	2031
18LOB	Within ETI's Comprehensive Hardening Projects	2030
18WWK	Within ETI's Comprehensive Hardening Projects	2032
193NE	Within ETI's Comprehensive Hardening Projects	2033
194NE	-	TBD
195CR	Within ETI's Comprehensive Hardening Projects	2034
197NE	Within ETI's Comprehensive Hardening Projects	2034
198CR	-	TBD
201SD	-	TBD
202SD	-	TBD
204TB	-	TBD
206TB	-	TBD
207TB	-	TBD
211BA	Within ETI's Comprehensive Hardening Projects	2028
212BA	Within ETI's Comprehensive Hardening Projects	2032
213BA	Within ETI's Comprehensive Hardening Projects	2029
21NOE	Within ETI's Comprehensive Hardening Projects	2034
226HI	Within ETI's Comprehensive Hardening Projects	2033
227HI	-	TBD
22HKS	Within ETI's Comprehensive Hardening Projects	2031
22YAN	Within ETI's Comprehensive Hardening Projects	2031
231ST	Within ETI's Comprehensive Hardening Projects	2029
232ST	Within ETI's Comprehensive Hardening Projects	2033
233ST	Within ETI's Comprehensive Hardening Projects	2030
238CR	Within ETI's Comprehensive Hardening Projects	2033

239CR	Within ETI's Comprehensive Hardening Projects	2034
23HKS	Within ETI's Comprehensive Hardening Projects	2033
23YAN	Within ETI's Comprehensive Hardening Projects	2033
240WS	Within ETI's Comprehensive Hardening Projects	2032
241WS	Within ETI's Comprehensive Hardening Projects	2026
250BY	Within ETI's Comprehensive Hardening Projects	2032
251KP	Within ETI's Comprehensive Hardening Projects	2029
257GV	-	TBD
25HKS	Within ETI's Comprehensive Hardening Projects	2029
261TR	Within ETI's Comprehensive Hardening Projects	2031
268RV	Within ETI's Comprehensive Hardening Projects	2028
269RV	Within ETI's Comprehensive Hardening Projects	2033
26HRN	Within ETI's Comprehensive Hardening Projects	2029
26NOE	-	TBD
270BC	Within ETI's Comprehensive Hardening Projects	2031
27NOE	-	TBD
280ML	Within ETI's Comprehensive Hardening Projects	2031
281ML	Within ETI's Comprehensive Hardening Projects	2030
28NOE	-	TBD
29NOE	Within ETI's Comprehensive Hardening Projects	2034
304NC	Within ETI's Comprehensive Hardening Projects	2031
307SP	Within ETI's Comprehensive Hardening Projects	2029
308FR	Within ETI's Comprehensive Hardening Projects	2029
308SP	Within ETI's Comprehensive Hardening Projects	2033
309SP	Within ETI's Comprehensive Hardening Projects	2028
30BRC	Within ETI's Comprehensive Hardening Projects	2033
310SP	Within ETI's Comprehensive Hardening Projects	2027
311SP	Within ETI's Comprehensive Hardening Projects	2031
316TA	Within ETI's Comprehensive Hardening Projects	2031
317TA	Within ETI's Comprehensive Hardening Projects	2029
31BRC	Within ETI's Comprehensive Hardening Projects	2034
320AP	Within ETI's Comprehensive Hardening Projects	2029
321AP	Within ETI's Comprehensive Hardening Projects	2026
324CO	Within ETI's Comprehensive Hardening Projects	2031
325CO	Within ETI's Comprehensive Hardening Projects	2031
326CO	Within ETI's Comprehensive Hardening Projects	2028
327CO	Within ETI's Comprehensive Hardening Projects	2032
32BRC	Within ETI's Comprehensive Hardening Projects	2028
330AD	Within ETI's Comprehensive Hardening Projects	2028
332AD	Within ETI's Comprehensive Hardening Projects	2031
333NC	Within ETI's Comprehensive Hardening Projects	2029
334NC	Within ETI's Comprehensive Hardening Projects	2026
335NC	Within ETI's Comprehensive Hardening Projects	2027
336NC	Within ETI's Comprehensive Hardening Projects	2025
337NC	Within ETI's Comprehensive Hardening Projects	2031
338NC	Within ETI's Comprehensive Hardening Projects	2029
33BRC	-	TBD
340WN	Within ETI's Comprehensive Hardening Projects	2032
341WN	Within ETI's Comprehensive Hardening Projects	2032
342JT	Within ETI's Comprehensive Hardening Projects	2028
342WN	Within ETI's Comprehensive Hardening Projects	2033
343JT	Within ETI's Comprehensive Hardening Projects	2031
345JT	Within ETI's Comprehensive Hardening Projects	2029
345OI	Within ETI's Comprehensive Hardening Projects	2031
346JT	-	TBD
34KOL	Within ETI's Comprehensive Hardening Projects	2025
350ON	Within ETI's Comprehensive Hardening Projects	2031
350PW	Within ETI's Comprehensive Hardening Projects	2029
351ON	Within ETI's Comprehensive Hardening Projects	2031
351PW	Within ETI's Comprehensive Hardening Projects	2031
352ON	Within ETI's Comprehensive Hardening Projects	2032
35HDN	Within ETI's Comprehensive Hardening Projects	2029
35KOL	Within ETI's Comprehensive Hardening Projects	2025
360BD	Within ETI's Comprehensive Hardening Projects	2028
360HT	Within ETI's Comprehensive Hardening Projects	2029
361BD	Within ETI's Comprehensive Hardening Projects	2029
361HT	-	TBD
362BD	Within ETI's Comprehensive Hardening Projects	2031
362HT	Within ETI's Comprehensive Hardening Projects	2029
363BD	Within ETI's Comprehensive Hardening Projects	2030
363HT	Within ETI's Comprehensive Hardening Projects	2031
364HT	Within ETI's Comprehensive Hardening Projects	2027
365HT	Within ETI's Comprehensive Hardening Projects	2029
36KOL	Within ETI's Comprehensive Hardening Projects	2025
374MR	Within ETI's Comprehensive Hardening Projects	2033
375MR	Within ETI's Comprehensive Hardening Projects	2030
37KOL	Within ETI's Comprehensive Hardening Projects	2025
37TYR	Within ETI's Comprehensive Hardening Projects	2031
380MC	Within ETI's Comprehensive Hardening Projects	2027
381MC	Within ETI's Comprehensive Hardening Projects	2033
382MC	Within ETI's Comprehensive Hardening Projects	2030
392WO	Within ETI's Comprehensive Hardening Projects	2032
393WO	Within ETI's Comprehensive Hardening Projects	2032

403CV	Within ETI's Comprehensive Hardening Projects	2025
404CV	Within ETI's Comprehensive Hardening Projects	2027
405CV	Within ETI's Comprehensive Hardening Projects	2029
406CV	Within ETI's Comprehensive Hardening Projects	2025
40LNB	Within ETI's Comprehensive Hardening Projects	2031
41LNB	Within ETI's Comprehensive Hardening Projects	2033
425CV	Within ETI's Comprehensive Hardening Projects	2027
426CV	Within ETI's Comprehensive Hardening Projects	2028
42LNB	-	TBD
432KT	Within ETI's Comprehensive Hardening Projects	2032
433TI	-	TBD
436TI	-	TBD
437TI	-	TBD
43LNB	Within ETI's Comprehensive Hardening Projects	2031
441LU	Within ETI's Comprehensive Hardening Projects	2033
452KT	Within ETI's Comprehensive Hardening Projects	2032
453KT	Within ETI's Comprehensive Hardening Projects	2033
456FL	Within ETI's Comprehensive Hardening Projects	2031
457FL	Within ETI's Comprehensive Hardening Projects	2031
45PTN	Within ETI's Comprehensive Hardening Projects	2031
461SI	Within ETI's Comprehensive Hardening Projects	2029
462SI	Within ETI's Comprehensive Hardening Projects	2033
463SI	Within ETI's Comprehensive Hardening Projects	2031
46PTN	Within ETI's Comprehensive Hardening Projects	2029
471NS	Within ETI's Comprehensive Hardening Projects	2033
472NS	Within ETI's Comprehensive Hardening Projects	2034
476MD	Within ETI's Comprehensive Hardening Projects	2029
477MD	Within ETI's Comprehensive Hardening Projects	2033
478MD	Within ETI's Comprehensive Hardening Projects	2032
479MD	Within ETI's Comprehensive Hardening Projects	2034
48TCO	Within ETI's Comprehensive Hardening Projects	2033
491LI	-	TBD
4CAL	Within ETI's Comprehensive Hardening Projects	2033
504CN	Within ETI's Comprehensive Hardening Projects	2025
505CN	Within ETI's Comprehensive Hardening Projects	2025
506CN	Within ETI's Comprehensive Hardening Projects	2029
506WR	Within ETI's Comprehensive Hardening Projects	2033
507CN	Within ETI's Comprehensive Hardening Projects	2027
50FTW	Within ETI's Comprehensive Hardening Projects	2033
511CN	Within ETI's Comprehensive Hardening Projects	2026
512CN	Within ETI's Comprehensive Hardening Projects	2028
513CN	Within ETI's Comprehensive Hardening Projects	2025
514CN	Within ETI's Comprehensive Hardening Projects	2032
515CN	Within ETI's Comprehensive Hardening Projects	2026
516CN	-	TBD
519DO	Within ETI's Comprehensive Hardening Projects	2026
51FTW	Within ETI's Comprehensive Hardening Projects	2032
520BW	Within ETI's Comprehensive Hardening Projects	2029
521BW	Within ETI's Comprehensive Hardening Projects	2030
522BW	-	TBD
525PA	Within ETI's Comprehensive Hardening Projects	2031
528CM	-	TBD
529CM	-	TBD
52FTW	-	TBD
535SH	Within ETI's Comprehensive Hardening Projects	2029
536SH	Within ETI's Comprehensive Hardening Projects	2031
537LA	Within ETI's Comprehensive Hardening Projects	2029
538LA	Within ETI's Comprehensive Hardening Projects	2031
539LA	Within ETI's Comprehensive Hardening Projects	2033
53BAT	Within ETI's Comprehensive Hardening Projects	2025
540LA	Within ETI's Comprehensive Hardening Projects	2030
544JT	Within ETI's Comprehensive Hardening Projects	2029
545PL	Within ETI's Comprehensive Hardening Projects	2031
546PL	Within ETI's Comprehensive Hardening Projects	2034
549JT	-	TBD
54FTW	-	TBD
550EP	Within ETI's Comprehensive Hardening Projects	2031
551EP	Within ETI's Comprehensive Hardening Projects	2028
552EP	Within ETI's Comprehensive Hardening Projects	2029
560WD	-	TBD
562WD	-	TBD
563WD	Within ETI's Comprehensive Hardening Projects	2026
566CR	Within ETI's Comprehensive Hardening Projects	2031
567CR	Within ETI's Comprehensive Hardening Projects	2031
568DC	Within ETI's Comprehensive Hardening Projects	2033
569DC	-	TBD
570CR	Within ETI's Comprehensive Hardening Projects	2028
570DC	Within ETI's Comprehensive Hardening Projects	2033
572CN	Within ETI's Comprehensive Hardening Projects	2029
574CN	Within ETI's Comprehensive Hardening Projects	2025
575CN	Within ETI's Comprehensive Hardening Projects	2029
576CN	Within ETI's Comprehensive Hardening Projects	2028
577CN	Within ETI's Comprehensive Hardening Projects	2025

580LM	Within ETI's Comprehensive Hardening Projects	2033
581LM	Within ETI's Comprehensive Hardening Projects	2025
582LM	Within ETI's Comprehensive Hardening Projects	2032
583LM	Within ETI's Comprehensive Hardening Projects	2025
584LM	Within ETI's Comprehensive Hardening Projects	2027
585LM	-	TBD
590AP	-	TBD
591AP	Within ETI's Comprehensive Hardening Projects	2031
592AP	Within ETI's Comprehensive Hardening Projects	2034
592WR	Within ETI's Comprehensive Hardening Projects	2031
593WD	Within ETI's Comprehensive Hardening Projects	2034

594WD	Within ETI's Comprehensive Hardening Projects	2033
598TA	Within ETI's Comprehensive Hardening Projects	2031
599TA	Within ETI's Comprehensive Hardening Projects	2033
59GRO	Within ETI's Comprehensive Hardening Projects	2028
600HU	Within ETI's Comprehensive Hardening Projects	2029
607HU	Within ETI's Comprehensive Hardening Projects	2031
608HU	Within ETI's Comprehensive Hardening Projects	2029
609HU	-	TBD
60CRK	Within ETI's Comprehensive Hardening Projects	2034
610HU	Within ETI's Comprehensive Hardening Projects	2029
611HU	Within ETI's Comprehensive Hardening Projects	2032
61CRK	Within ETI's Comprehensive Hardening Projects	2033
61GRO	Within ETI's Comprehensive Hardening Projects	2028
627TE	Within ETI's Comprehensive Hardening Projects	2025
628TE	Within ETI's Comprehensive Hardening Projects	2031
62GRO	Within ETI's Comprehensive Hardening Projects	2033
632WT	Within ETI's Comprehensive Hardening Projects	2031
633WT	Within ETI's Comprehensive Hardening Projects	2031
634WT	Within ETI's Comprehensive Hardening Projects	2027
63CRK	Within ETI's Comprehensive Hardening Projects	2033
63GRO	Within ETI's Comprehensive Hardening Projects	2033
64CRK	Within ETI's Comprehensive Hardening Projects	2032
650VT	-	TBD
651VT	-	TBD
652VT	-	TBD
653VT	-	TBD
654VT	-	TBD
655VT	-	TBD
657VT	-	TBD
65CRK	Within ETI's Comprehensive Hardening Projects	2027
65MAN	-	TBD
66MAN	Within ETI's Comprehensive Hardening Projects	2029
670GE	Within ETI's Comprehensive Hardening Projects	2029
673MA	Within ETI's Comprehensive Hardening Projects	2027
674MA	-	TBD
67MAN	Within ETI's Comprehensive Hardening Projects	2029
67PTA	Within ETI's Comprehensive Hardening Projects	2028
681GR	Within ETI's Comprehensive Hardening Projects	2032
681VI	Within ETI's Comprehensive Hardening Projects	2028
682GR	Within ETI's Comprehensive Hardening Projects	2032
682Vi	Within ETI's Comprehensive Hardening Projects	2033
68PTA	Within ETI's Comprehensive Hardening Projects	2031
69PTA	Within ETI's Comprehensive Hardening Projects	2030
6CAL	Within ETI's Comprehensive Hardening Projects	2032
702GL	-	TBD
704GL	Within ETI's Comprehensive Hardening Projects	2034
706GL	-	TBD
707GL	-	TBD
708GL	-	TBD
70ECH	Within ETI's Comprehensive Hardening Projects	2032
70PAS	Within ETI's Comprehensive Hardening Projects	2030
711MG	Within ETI's Comprehensive Hardening Projects	2029
714SL	Within ETI's Comprehensive Hardening Projects	2031
719ME	-	TBD
71ECH	Within ETI's Comprehensive Hardening Projects	2031
723DY	Within ETI's Comprehensive Hardening Projects	2029
723ME	-	TBD
724DY	Within ETI's Comprehensive Hardening Projects	2030
725DY	Within ETI's Comprehensive Hardening Projects	2026
726DY	Within ETI's Comprehensive Hardening Projects	2029
727DY	Within ETI's Comprehensive Hardening Projects	2026
72ECH	Within ETI's Comprehensive Hardening Projects	2029
731SN	-	TBD
733SN	Within ETI's Comprehensive Hardening Projects	2025
736CY	-	TBD
737CY	-	TBD
738CY	-	TBD
739CY	-	TBD
73ECH	Within ETI's Comprehensive Hardening Projects	2033

73RAY	Within ETI's Comprehensive Hardening Projects	2028
740OK	Within ETI's Comprehensive Hardening Projects	2029
741DA	Within ETI's Comprehensive Hardening Projects	2032
741OK	Within ETI's Comprehensive Hardening Projects	2029
742OK	Within ETI's Comprehensive Hardening Projects	2034
743DA	Within ETI's Comprehensive Hardening Projects	2028
743OK	Within ETI's Comprehensive Hardening Projects	2027
744DA	Within ETI's Comprehensive Hardening Projects	2032
744OK	Within ETI's Comprehensive Hardening Projects	2025
745OK	Within ETI's Comprehensive Hardening Projects	2029
74RAY	Within ETI's Comprehensive Hardening Projects	2028
750FO	Within ETI's Comprehensive Hardening Projects	2029
751FO	Within ETI's Comprehensive Hardening Projects	2030
752FO	Within ETI's Comprehensive Hardening Projects	2029
753FO	Within ETI's Comprehensive Hardening Projects	2029
754FO	Within ETI's Comprehensive Hardening Projects	2025
755FO	-	TBD
757FO	-	TBD
758FO	Within ETI's Comprehensive Hardening Projects	2031
759FO	Within ETI's Comprehensive Hardening Projects	2032
75RAY	Within ETI's Comprehensive Hardening Projects	2031
761SA	Within ETI's Comprehensive Hardening Projects	2026
762AL	Within ETI's Comprehensive Hardening Projects	2030
765AL	Within ETI's Comprehensive Hardening Projects	2032
76JRU	Within ETI's Comprehensive Hardening Projects	2032
770AL	Within ETI's Comprehensive Hardening Projects	2031
771AL	Within ETI's Comprehensive Hardening Projects	2032
77JRU	-	TBD
781EG	Within ETI's Comprehensive Hardening Projects	2027
782PW	Within ETI's Comprehensive Hardening Projects	2032
78JRU	Within ETI's Comprehensive Hardening Projects	2030
801FE	Within ETI's Comprehensive Hardening Projects	2032
806PD	Within ETI's Comprehensive Hardening Projects	2030
808PD	Within ETI's Comprehensive Hardening Projects	2032
809PD	Within ETI's Comprehensive Hardening Projects	2033
80LAV	Within ETI's Comprehensive Hardening Projects	2033
80WED	-	TBD
810PD	-	TBD
819MD	-	TBD
81LAV	Within ETI's Comprehensive Hardening Projects	2033
82WED	Within ETI's Comprehensive Hardening Projects	2031
84DQN	Within ETI's Comprehensive Hardening Projects	2032
85DQN	-	TBD
85WED	Within ETI's Comprehensive Hardening Projects	2033
86WED	Within ETI's Comprehensive Hardening Projects	2031
87DQN	-	TBD
87WED	Within ETI's Comprehensive Hardening Projects	2034
883GR	Within ETI's Comprehensive Hardening Projects	2031
88WED	Within ETI's Comprehensive Hardening Projects	2029
904NA	Within ETI's Comprehensive Hardening Projects	2031
905NA	Within ETI's Comprehensive Hardening Projects	2031
90MPL	Within ETI's Comprehensive Hardening Projects	2031
90STG	-	TBD
91MPL	Within ETI's Comprehensive Hardening Projects	2031
91STG	Within ETI's Comprehensive Hardening Projects	2031
920DO	Within ETI's Comprehensive Hardening Projects	2027
92CHI	Within ETI's Comprehensive Hardening Projects	2028
92STG	Within ETI's Comprehensive Hardening Projects	2033
93CHI	Within ETI's Comprehensive Hardening Projects	2031
93STG	Within ETI's Comprehensive Hardening Projects	2032
969NA	Within ETI's Comprehensive Hardening Projects	2029
981GR	Within ETI's Comprehensive Hardening Projects	2025
982GR	Within ETI's Comprehensive Hardening Projects	2030
98SPU	Within ETI's Comprehensive Hardening Projects	2030
99SPU	Within ETI's Comprehensive Hardening Projects	2031

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. EV32
	Ending Sequence No. EV32

Question No.: STAFF 1-57 Part No.: Addendum:

Distribution Infrastructure

Question:

If your distribution system includes feeders with poles taller than 60-feet above ground level, please provide the following:

a. Identify each feeder that has any number of poles meeting this criteria;

b. Explain the damage experienced on these lines due to either the May 2024 Derecho or Hurricane Beryl; and

c. Explain the design criteria for these types of lines.

Response:

a. Please see the attachment (TP-56822-00PUS001-X057).

b. Please see the attachment (TP-56822-00PUS001-X057).

c. Entergy Texas, Inc. ("ETI") constructs its poles according to the applicable design criteria in place at the time the pole is installed. These lines are constructed to a minimum of NESC Grade C except where Grade B is directed by the National Electrical Safety Code ("NESC"). Those Grade B instances are at navigable waterways, railroad, and limited access highway crossings. The minimum pole loading for these structures is the application of the NESC 250B rule. The NESC provides the strength and overload factors for this calculation for the pole and its applied loads (by construction grade and material types). The 250C rule applies to those poles that are more than 60 ft out of the ground and applies wind loading from 100 mph inland up to 150 mph on the coast. This rule also provides the strength and overload factor for this calculation, and these poles are built to meet or exceed this minimum design as directed by the NESC for public safety. Please also refer to the Company's response to Staff 1-60.

Feeder Name					
223HI	129VI	159CH	233ST	324CO	364HT
102CD	12FTW	15LCN	238CR	325CO	36KOL
193NE	130VI	165CH	239CR	326CO	37KOL
103CD	131VI	171PR	23HKS	327CO	37TYR
105CD	132CE	176PR	23YAN	32BRC	380MC
105SL	132VI	17LOB	241WS	330AD	381MC
106HM	135TG	7FTW	24HKS	336NC	38TYR
107HM	136TG	180AM	24YAN	33BRC	403CV
108HM	137TG	181AM	250BY	340WN	40LNB
110MC	13TRV	18LOB	25YAN	341WN	425CV
111MC	141LV	194NE	268RV	342WN	426CV
111WS	195CR	197NE	269RV	345OI	432KT
112MC	150RS	198CR	27NOE	34KOL	435KT
112WS	151RS	204TB	29NOE	350ON	43LNB
567FT	152RS	205TB	307FR	351ON	441LU
11TRV	153RS	21NOE	307SP	35HDN	451KT
120EL	154BE	226HI	308SP	35KOL	456FL
121EL	155BE	227HI	309SP	360BD	457FL
122EL	156BE	22YAN	30BRC	361BD	461SI
123EL	158HA	232ST	321AP	363BD	462SI
463SI	580LM	67MAN	758FO	99SPU	-
46PTN	99FTW	682VI	761SA	-	-
471NS	607HU	68PTA	76JRU	-	-
472NS	608HU	6CAL	77JRU	-	-
479MD	60CRK	70ECH	781EG	-	-
48TCO	610HU	70PAS	78JRU	-	-
490LI	611HU	71ECH	800FE	-	-
506WR	61CRK	724DY	801FE	-	-
516CN	61GRO	725DY	80WED	-	-
521BW	627TE	726DY	85WED	-	-
522BW	628TE	727DY	86WED	-	-
536SH	62GRO	738CY	883GR	-	-
53BAT	632WT	73RAY	88WED	-	-
552EP	634WT	740OK	905NA	-	-
566CR	63CRK	741OK	90STG	-	-
568DC	64CRK	743DA	91STG	-	-
569DC	657VT	743OK	920DO	-	-
574CN	65CRK	744DA	92STG	-	-
576CN	66MAN	744OK	93CHI	-	-
577CN	673MA	753FO	98SPU	-	-

Feeder	Outage Cause Description
102CD	None
103CD	Equipment Failure - Equipment Failure - Air Break / Disconnect Switch
103CD	Equipment Failure - Equipment Failure - Air Break / Disconnect Switch
105CD	None
105SL	Equipment Failure - Equipment Failure - Pole
105SL	Equipment Failure - Equipment Failure - Pole
106HM	Equipment Failure - Equipment Failure - Transformer
106HM	Equipment Failure - Equipment Failure - Transformer
107HM	None
108HM	None
110MC	None
111MC	Vegetation - Overhanging Limb
111MC	Vegetation - Overhanging Limb
111WS	None
112MC	Equipment Failure - Equipment Failure - Pole
112MC	Equipment Failure - Equipment Failure - Pole
112WS	Equipment Failure - Neutral Conductor
112WS	Equipment Failure - Neutral Conductor
11TRV	None
120EL	Vegetation - Tree On Line Outside R.O.W.
120EL	Vegetation - Tree On Line Outside R.O.W.
121EL	Vegetation - Tree On Line Outside R.O.W.
121EL	Vegetation - Tree On Line Outside R.O.W.
122EL	Vegetation - Overhanging Limb
122EL	Vegetation - Overhanging Limb
123EL	Vegetation - Tree/Limb Growing Inside R.O.W.
123EL	Vegetation - Tree/Limb Growing Inside R.O.W.
129VI	None
12FTW	None
130VI	None
131VI	Vegetation - Tree On Line Outside R.O.W.
131VI	Vegetation - Tree On Line Outside R.O.W.
132CE	Secondary/Service Conductor
132CE	Secondary/Service Conductor
132VI	None
135TG	Animal- Squirrel
135TG	Animal- Squirrel
136TG	None
137TG	Lightning- Lightning
137TG	Lightning- Lightning
13TRV	None
141LV	Vegetation- Overhanging Limb
141LV	Vegetation- Overhanging Limb
150RS	None

151RS	Vegetation- Tree On Line Outside R.O.W.
151RS	Vegetation- Tree On Line Outside R.O.W.
152RS	Vegetation- Overhanging Limb
152RS	Vegetation- Overhanging Limb
153RS	None
154BE	Vegetation- Tree On Line Outside R.O.W.
154BE	Vegetation- Tree On Line Outside R.O.W.
155BE	Vegetation- Overhanging Limb
155BE	Vegetation- Overhanging Limb
156BE	Vegetation- Tree On Line Outside R.O.W.
156BE	Vegetation- Tree On Line Outside R.O.W.
158HA	Lightning- Lightning
158HA	Lightning- Lightning
159CH	Equipment Failure - Equipment Failure - Crossarm
159CH	Equipment Failure - Equipment Failure - Crossarm
15LCN	None
165CH	None
171PR	None
176PR	None
17LOB	Transmission/Substation- Transmission Other (Describe in remarks)
17LOB	Transmission/Substation- Transmission Other (Describe in remarks)
180AM	Lightning- Lightning
180AM	Lightning- Lightning
181AM	None
18LOB	None
193NE	Vegetation - Tree On Line Outside R.O.W.
193NE	Vegetation - Tree On Line Outside R.O.W.
194NE	None
195CR	Equipment Failure - Equipment Failure - Pole
195CR	Equipment Failure - Equipment Failure - Pole
197NE	None
198CR	None
204TB	Vegetation - Tree On Line Outside R.O.W.
204TB	Vegetation - Tree On Line Outside R.O.W.
205TB	None
21NOE	Vegetation - Tree On Line Outside R.O.W.
21NOE	Vegetation - Tree On Line Outside R.O.W.
223HI	Lightning
223HI	Lightning
226HI	Equipment Failure - Equipment Failure - Insulator
226HI	Equipment Failure - Equipment Failure - Insulator
227HI	Unknown - Under Investigation
227HI	Unknown - Under Investigation
22YAN	Equipment Failure - Equipment Failure - Pole
22YAN	Equipment Failure - Equipment Failure - Pole

232ST	Vegetation - Overhanging Limb
232ST	Vegetation - Overhanging Limb
233ST	Vegetation - Tree On Line Outside R.O.W.
233ST	Vegetation - Tree On Line Outside R.O.W.
238CR	Vegetation - Tree On Line Outside R.O.W.
238CR	Vegetation - Tree On Line Outside R.O.W.
239CR	Vegetation - Tree On Line Outside R.O.W.
239CR	Vegetation - Tree On Line Outside R.O.W.
23HKS	None
23YAN	None
241WS	Equipment Failure - Equipment Failure - Pole
241WS	Equipment Failure - Equipment Failure - Pole
24HKS	None
24YAN	None
250BY	Equipment Failure - Equipment Failure - Pole
250BY	Equipment Failure - Equipment Failure - Pole
25YAN	None
268RV	Vegetation - Tree On Line Outside R.O.W.
268RV	Vegetation - Tree On Line Outside R.O.W.
269RV	Vegetation - Tree On Line Outside R.O.W.
269RV	Vegetation - Tree On Line Outside R.O.W.
27NOE	None
29NOE	None
307FR	None
307SP	Vegetation - Tree/Limb Growing Inside R.O.W.
307SP	Vegetation - Tree/Limb Growing Inside R.O.W.
308SP	None
309SP	None
30BRC	Vegetation - Overhanging Limb
30BRC	Vegetation - Overhanging Limb
321AP	Transmission Line Out
321AP	Transmission Line Out
324CO	Equipment Failure - Equipment Failure - Transformer
324CO	Equipment Failure - Equipment Failure - Transformer
325CO	Vegetation - Vine Growing into Line
325CO	Vegetation - Vine Growing into Line
326CO	Lightning- Lightning
326CO	Lightning- Lightning
327CO	Lightning- Lightning
327CO	Lightning- Lightning
32BRC	Vegetation - Tree On Line Outside R.O.W.
32BRC	Vegetation - Tree On Line Outside R.O.W.
330AD	None
336NC	Vegetation - Tree On Line Outside R.O.W.
336NC	Vegetation - Tree On Line Outside R.O.W.

33BRC	None
340WN	None
341WN	None
342WN	Lightning- Lightning
342WN	Lightning- Lightning
345OI	None
34KOL	None
350ON	None
351ON	None
35HDN	Vegetation - Tree On Line Outside R.O.W.
35HDN	Vegetation - Tree On Line Outside R.O.W.
35KOL	None
360BD	Lightning- Lightning
360BD	Lightning- Lightning
361BD	None
363BD	Vegetation - Tree On Line Outside R.O.W.
363BD	Vegetation - Tree On Line Outside R.O.W.
364HT	Vegetation - Tree On Line Outside R.O.W.
364HT	Vegetation - Tree On Line Outside R.O.W.
36KOL	None
37KOL	None
37TYR	Vegetation - Tree/Limb Growing Inside R.O.W.
37TYR	Vegetation - Tree/Limb Growing Inside R.O.W.
380MC	Vegetation - Tree/Limb Growing Inside R.O.W.
380MC	Vegetation - Tree/Limb Growing Inside R.O.W.
381MC	None
38TYR	None
403CV	Vegetation - Tree On Line Outside R.O.W.
403CV	Vegetation - Tree On Line Outside R.O.W.
40LNB	Vegetation - Tree On Line Outside R.O.W.
40LNB	Vegetation - Tree On Line Outside R.O.W.
425CV	Vegetation - Tree On Line Outside R.O.W.
425CV	Vegetation - Tree On Line Outside R.O.W.
426CV	Vegetation - Tree On Line Outside R.O.W.
426CV	Vegetation - Tree On Line Outside R.O.W.
432KT	Vegetation- Tree On Line Outside R.O.W.
432KT	Vegetation- Tree On Line Outside R.O.W.
435KT	None
43LNB	None
441LU	Vegetation - Tree on Line from Inside R.O.W
441LU	Vegetation - Tree on Line from Inside R.O.W
451KT	None
456FL	None
457FL	Vegetation - Tree on Line from Inside R.O.W
457FL	Vegetation - Tree on Line from Inside R.O.W

461SI	Lightning- Lightning
461SI	Lightning- Lightning
462SI	Vegetation- Tree On Line Outside R.O.W.
462SI	Vegetation- Tree On Line Outside R.O.W.
463SI	None
46PTN	None
471NS	Vegetation - Tree On Line Outside R.O.W.
471NS	Vegetation - Tree On Line Outside R.O.W.
472NS	Transmission/Substation- Unknown - Under Investigation
472NS	Transmission/Substation- Unknown - Under Investigation
479MD	Vegetation - Tree On Line Outside R.O.W.
479MD	Vegetation - Tree On Line Outside R.O.W.
48TCO	Vegetation - Tree On Line Outside R.O.W.
48TCO	Vegetation - Tree On Line Outside R.O.W.
490LI	Transmission/Substation- Unknown - Under Investigation
490LI	Transmission/Substation- Unknown - Under Investigation
506WR	Vegetation - Tree On Line Outside R.O.W.
506WR	Vegetation - Tree On Line Outside R.O.W.
516CN	None
521BW	Equipment Failure - Equipment Failure - Air Break / Disconnect Switch
521BW	Equipment Failure - Equipment Failure - Air Break / Disconnect Switch
522BW	Equipment Failure - Equipment Failure - Other (Describe in Remarks Field)
522BW	Equipment Failure - Equipment Failure - Other (Describe in Remarks Field)
536SH	Lightning- Lightning
536SH	Lightning- Lightning
53BAT	Transmission/Substation-Transmission Line Out
53BAT	Transmission/Substation-Transmission Line Out
552EP	Equipment Failure-Primary Conductor
552EP	Equipment Failure-Primary Conductor
566CR	Vegetation - Tree On Line Outside R.O.W.
566CR	Vegetation - Tree On Line Outside R.O.W.
567FT	None
568DC	Vegetation - Overhanging Limb
568DC	Vegetation - Overhanging Limb
569DC	None
574CN	Vegetation - Tree On Line Outside R.O.W.
574CN	Vegetation - Tree On Line Outside R.O.W.
576CN	None
577CN	Vegetation - Tree/Limb Growing Inside R.O.W.
577CN	Vegetation - Tree/Limb Growing Inside R.O.W.
580LM	Vegetation - Tree On Line Outside R.O.W.
580LM	Vegetation - Tree On Line Outside R.O.W.
607HU	Vegetation - Tree On Line Outside R.O.W.
607HU	Vegetation - Tree On Line Outside R.O.W.
608HU	Vegetation- Tree On Line Outside R.O.W.

608HU	Vegetation- Tree On Line Outside R.O.W.
60CRK	None
610HU	None
611HU	Vegetation - Tree on Line from Inside R.O.W
611HU	Vegetation - Tree on Line from Inside R.O.W
61CRK	None
61GRO	None
627TE	Vegetation - Tree On Line Outside R.O.W.
627TE	Vegetation - Tree On Line Outside R.O.W.
628TE	Vegetation - Tree On Line Outside R.O.W.
628TE	Vegetation - Tree On Line Outside R.O.W.
62GRO	Equipment Failure - Equipment Failure - Pole
62GRO	Equipment Failure - Equipment Failure - Pole
632WT	Vegetation - Tree On Line Outside R.O.W.
632WT	Vegetation - Tree On Line Outside R.O.W.
634WT	Vegetation - Tree On Line Outside R.O.W.
634WT	Vegetation - Tree On Line Outside R.O.W.
63CRK	None
64CRK	None
657VT	Vegetation - Tree On Line Outside R.O.W.
657VT	Vegetation - Tree On Line Outside R.O.W.
65CRK	None
66MAN	Vegetation - Overhanging Limb
66MAN	Vegetation - Overhanging Limb
673MA	None
67MAN	Equipment Failure - Equipment Failure - Pole
67MAN	Equipment Failure - Equipment Failure - Pole
682VI	Vegetation - Tree/Limb Growing Inside R.O.W.
682VI	Vegetation - Tree/Limb Growing Inside R.O.W.
68PTA	Equipment Failure - Equipment Failure - Other (Describe in Remarks Field)
68PTA	Equipment Failure - Equipment Failure - Other (Describe in Remarks Field)
6CAL	None
70ECH	None
70PAS	None
71ECH	None
724DY	Vegetation - Tree On Line Outside R.O.W.
724DY	Vegetation - Tree On Line Outside R.O.W.
725DY	None
726DY	Vegetation - Tree On Line Outside R.O.W.
726DY	Vegetation - Tree On Line Outside R.O.W.
727DY	Vegetation- Overhanging Limb
727DY	Vegetation- Overhanging Limb
738CY	Vegetation- Tree/Limb Growing Inside R.O.W.
738CY	Vegetation- Tree/Limb Growing Inside R.O.W.
73RAY	Equipment Failure - Equipment Failure - Pole

73RAY	Equipment Failure - Equipment Failure - Pole
740OK	Vegetation - Tree On Line Outside R.O.W.
740OK	Vegetation - Tree On Line Outside R.O.W.
741OK	Secondary/Service Conductor
741OK	Secondary/Service Conductor
743DA	Vegetation - Tree On Line Outside R.O.W.
743DA	Vegetation - Tree On Line Outside R.O.W.
743OK	Vegetation - Tree On Line Outside R.O.W.
743OK	Vegetation - Tree On Line Outside R.O.W.
744DA	Vegetation - Tree On Line Outside R.O.W.
744DA	Vegetation - Tree On Line Outside R.O.W.
744OK	Vegetation - Tree On Line Outside R.O.W.
744OK	Vegetation - Tree On Line Outside R.O.W.
753FO	Lightning
753FO	Lightning
758FO	None
761SA	Transmission/Substation- Transmission Line Out
761SA	Transmission/Substation- Transmission Line Out
76JRU	None
77JRU	None
781EG	Equipment Failure - Equipment Failure - Pole
781EG	Equipment Failure - Equipment Failure - Pole
78JRU	None
7FTW	None
800FE	None
801FE	None
80WED	None
85WED	None
86WED	None
883GR	Vegetation - Tree/Limb Growing Inside R.O.W.
883GR	Vegetation - Tree/Limb Growing Inside R.O.W.
88WED	Vegetation - Tree On Line Outside R.O.W.
88WED	Vegetation - Tree On Line Outside R.O.W.
905NA	Vegetation - Tree/Limb Growing Inside R.O.W.
905NA	Vegetation - Tree/Limb Growing Inside R.O.W.
90STG	None
91STG	None
920DO	Vegetation - Tree/Limb Growing Inside R.O.W.
920DO	Vegetation - Tree/Limb Growing Inside R.O.W.
92STG	Vegetation - Tree/Limb Growing Inside R.O.W.
92STG	Vegetation - Tree/Limb Growing Inside R.O.W.
93CHI	Vegetation - Tree On Line Outside R.O.W.
93CHI	Vegetation - Tree On Line Outside R.O.W.
98SPU	None
99FTW	None

99SPU	None

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Charles W. Long
of Requesting Party: Commission Staff	Beginning Sequence No. EV33
	Ending Sequence No. EV33

Question No.: STAFF 1-58 Part No.: Addendum:

Distribution Infrastructure

Question:

Please explain your standard for distribution pole embedment. In your response, please explain if this standard has changed in the last 10 years.

Response:

Until the end of 2021, Entergy Texas, Inc.'s ("ETI") general guidance for embedment was the industry standard of 10% of the pole length plus two feet for any pole. Starting in 2022, ETI changed the standard embedment to 10% plus three feet for wood poles and 10% plus four feet for all non-wood poles.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Charles W. Long
of Requesting Party: Commission Staff	Beginning Sequence No. EV34
	Ending Sequence No. EV34

Question No.: STAFF 1-59 Part No.: Addendum:

Distribution Infrastructure

Question:

Please provide the standard distribution pole size and class for both single and three phase lines on your system within the Impacted Area.

Response:

The pole size and class depend greatly on the pole location and all the components and attachments on the pole. Entergy Texas, Inc. ("ETI") models the pole and applies load calculations to class the pole to the Company's standards and to ensure compliance with the National Electrical Safety Code ("NESC"). The size of the pole is dependent upon the existing pole height of adjacent poles and the NESC clearance rules.

The range of standard poles is from Class 3 to H4, over four material types. Standard pole heights range from 40 to 65 feet for primary applications.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Sean Meredith
of Requesting Party: Commission Staff	Beginning Sequence No. EV31
	Ending Sequence No. EV31

Question No.: STAFF 1-60 Part No.: Addendum:

Distribution Infrastructure

Question:

Please explain the NESC construction strength and overload factors your distribution lines were built to in the past.

Response:

Entergy Texas, Inc. ("ETI") applies load calculations in accordance with National Electrical Safety Code ("NESC") Rule 250B. The strength and overload factors are specific to the different pole material types as specified by the NESC. These factors are also different for construction grade according to the NESC. The Company builds to NESC Grade C construction for most applications; however, Grade B construction is applied for navigable waterways, railroad crossings, and limited access highway crossings. The Company also identifies and applies Grade B construction to its defined "critical structures," which is above the NESC requirement for those structure types. Critical structures are generally those that support feeder getaways, reclosers, regulators, capacitor banks, DVAR units, and other major crossings.

ETI historically applied extreme wind loading requirements for NESC Rule 250C to distribution poles that are more than 60 feet above ground. Since the adoption of the Entergy Operating Companies' most recent wind loading criteria in 2022, ETI now applies the NESC Rule 250C extreme wind loading standards to all distribution poles (including those below 60 feet), and then exceeds NESC Rule 250C as appropriate for the wind zone where the distribution pole is located.

The purpose of the NESC is to provide construction requirements that are necessary for the safety of the public, utility workers, and utility facilities. However, the NESC standards are not resiliency standards, and nothing in the NESC prohibits or limits ETI's ability to consider other factors beyond safety and practicality in developing its resiliency standards in excess of the minimum requirements of the NESC. Please also refer to the Company's response to Staff 1-61.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Sean Meredith
of Requesting Party: Commission Staff	Beginning Sequence No. EV53
	Ending Sequence No. EV53

Question No.: STAFF 1-61 Part No.: Addendum:

Distribution Infrastructure

Question:

Please explain any new NESC construction strength and overload factors you adopted for distribution lines in the last two years to improve system resiliency.

Response:

In 2021, the Entergy Operating Companies ("EOCs"), including Entergy Texas, Inc. ("ETI") updated their extreme wind-loading design basis. These wind-loading standards exceed the National Electrical Safety Code ("NESC") Rule 250C public safety requirements, and that design basis now is applied to all distribution poles regardless of height above ground. The EOCs made this change after considering EOC and community experiences during the 2020 and 2021 Atlantic Hurricane Seasons, and conducting an assessment of design opportunities that may mitigate the effects of major hurricanes like Laura and Harvey. All the other factors for NESC Rule 250B and NESC Rule 250C are unchanged in design calculations. The Company's extreme wind loading design basis wind speeds are generally 5 mph to 15 mph greater than the NESC Rule 250C requirements. These increased standards are designed to benefit customers in the long run. Designing to these higher wind loading standards is expected to result in stronger structures that are more capable of withstanding greater weather impacts, resulting in decreased restoration costs as well as fewer and shorter outages following major events.

The purpose of the NESC, as defined in Rule 010, is "the practical safeguarding of persons and utility facilities during the installation, operation, and maintenance of electric supply and communication facilities, under specified conditions." It contains basic provisions, under specified conditions, that are necessary for safeguarding of the public, utility workers, and utility facilities. As set forth in Comments to NESC 010-2017, "[i]n essence, the rules of the NESC give the basic requirements of construction that are necessary for safety." However, the NESC standards are not resiliency standards and nothing in the NESC prohibits or limits ETI's ability to consider other factors beyond safety and practicality in developing its resiliency standards in excess of the minimum requirements of the NESC. Accordingly, in addition to developing distribution design specifications that meet the NESC safety requirements, the EOCs have also considered many other factors in their design specifications, including customer and community requirements, costs of increased design specifications, as well as reliability, repairability, and resiliency.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
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Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. EV35
	Ending Sequence No. EV35

Question No.: STAFF 1-62 Part No.: Addendum:

Distribution Infrastructure

Question:

Please provide the following information regarding distribution feeders in the Impacted Area that did not lose power during Hurricane Beryl and the May 2024 Derecho:

a. Provide the designed criteria for these lines;

b. The type of poles installed;

c. The ROW widths;

d. Explain if these lines are designed to the latest NESC construction strength and overload factors; and

e. Explain if any distribution line experienced damage but remained standing.

Response:

a. The distribution feeder assets on Entergy Texas, Inc.'s system that did not lose power are of various vintages and constructed with various materials. Please see the Company's response to Staff 1-55 and 1-59 through 1-61.

b. Wood, concrete, steel, and fiberglass materials.

c. Please see the Company's response to Staff 1-55.

d. Please see the Company's response to subpart a. and the Company's responses to Staff 1-60 and 1-61.

e. Numerous distribution lines were damaged due to falling trees, limbs, and debris, which tore down wires or damaged other hardware, but the poles remained standing. Consequently, damaged hardware was replaced, and wires were re-installed on existing poles in order to restore electric service.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
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Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. PI50
	Ending Sequence No. PI50

Question No.: STAFF 1-63 Part No.: Addendum:

Distribution Infrastructure

Question:

Please provide the number of distribution poles that were in service before the May 2024 Derecho. In your response, please provide quantities by pole type and NESC wind loading criteria of the pole.

Response:

Distribution poles were built to Entergy Texas, Inc.'s ("ETI") standard as of the date they were installed which met or exceeded applicable National Electrical Safety Code ("NESC") standards in place at the time. Please see the Company's responses to Staff 1-60 and 1-61.

As of May 1, 2024, ETI had approximately 517,683 distribution poles in service before the May 16, 2024 severe thunderstorm event. Material types are listed in the below table.

Pole Type	Number of Poles
Concrete	286
Fiberglass	124
Steel	956
Wood	516,317
	TOTAL: 517,683*

*Excludes streetlight and communication poles.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
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Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. LC12
	Ending Sequence No. LC12

Question No.: STAFF 1-64 Part No.: Addendum:

Distribution Infrastructure

Question:

Please provide the total number of distribution poles that failed due to the May 2024 Derecho. In your response, please provide separate quantities for each pole type and NESC wind loading criteria for the poles that failed, and separately identify the number of pole failures caused by either high wind or structural loading from vegetation or debris.

Response:

The number of distribution poles that failed due to the May 16, 2024 severe thunderstorm event was 55, all of which were constructed with wood. All distribution poles were built to Entergy Texas, Inc.'s standard as of the date they were installed which met or exceeded applicable National Electrical Safety Code standards in place at the time. Please see the Company's responses to Staff 1-60 and 1-61. Please refer to the Company's response to Staff 1-56 for details on the causes of pole failure.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. LC13
	Ending Sequence No. LC13

Question No.: STAFF 1-65 Part No.: Addendum:

Distribution Infrastructure

Question:

Please provide the total number of distribution poles that failed due to Hurricane Beryl. In your response, please provide separate quantities for each pole type and NESC wind loading criteria for the poles that failed, and separately identify the number of pole failures caused by either high wind or structural loading from vegetation or debris.

Response:

The total number of distribution poles that failed during Hurricane Beryl was 910, all of which were constructed with wood. All distribution poles were built to Entergy Texas, Inc.'s standard as of the date they were installed which met or exceeded applicable National Electrical Safety Code standards in place at the time. Please see the Company's responses to Staff 1-60 and 1-61. Please refer to the Company's response to Staff 1-56 for details on causes of pole failure.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. EV87
	Ending Sequence No. EV88

Question No.: STAFF 1-66 Part No.: Addendum:

Distribution Infrastructure

Question:

For each distribution pole that failed due to the May 2024 Derecho or Hurricane Beryl, please provide the date of the last inspection and explain the planned frequency of those inspections. Additionally, please provide the most recent inspection report for each pole that failed.

Response:

Information included in the response contains protected ("highly sensitive") materials. Specifically, the responsive materials are protected pursuant to Texas Government Code Sections 552.101 and/or 552.110. Confidential materials will be provided pursuant to the terms of the Protective Order in this docket.

As discussed in Company's response to Staff 1-54, Entergy Texas, Inc.'s ("ETI") Pole Program assesses poles on an approximately 10-year cycle. ETI is currently in year 6 of the 10-year cycle. The Company also inspects poles outside of the formal Pole Program as part of routine work. ETI does not currently have data at an individual pole level to provide the inspection report for each individual pole that failed during the May 16, 2024 severe thunderstorm event or Hurricane Beryl. Please see the highly sensitive attachment (TP-56822-00PUS001-X066_HSPM) for information on the last inspections conducted on each circuit that had any poles that failed during either of these weather events.

DESIGNATION OF PROTECTED MATERIALS PURSUANT TO PARAGRAPH 4 OF DOCKET NO. 56822 PROTECTIVE ORDER

The Response to this Request for Information includes Protected Materials within the meaning of the Protective Order in force in this Docket. Public Information Act exemptions applicable to this information include Tex. Gov't Code Sections 552.101 and/or 552.110. ETI asserts that this information is exempt from public disclosure under the Public Information Act and subject to treatment as Protected Materials because it concerns competitively sensitive commercial and/or financial information and/or information designated confidential by law.

Counsel for ETI has reviewed this information sufficiently to state in good faith that the information is exempt from public disclosure under the Public Information Act and merits the Protected Materials Designation.

George Hoyt
Entergy Texas, Inc.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. EV37
	Ending Sequence No. EV37

Question No.: STAFF 1-67 Part No.: Addendum:

Distribution Infrastructure

Question:

Should the PUCT require utilities to construct and maintain distribution feeder equipment located in a hurricane prone area to a certain NESC standard? If so, which ones? If no, why not?

Response:

The purpose of the National Electrical Safety Code ("NESC") is to provide construction requirements that are necessary for the safety of the public, utility workers, and utility facilities. Utilities already adhere to the NESC standards for purposes of constructing and maintaining distribution feeder equipment for purposes of ensuring public safety. NESC Rule 010C, which is cited in Rule 250C, was revised to provide that the NESC "is not intended as a design specification or as an instruction manual, nor is it intended to provide design criteria for abnormal events such as, but not limited to, actions of others or weather events in excess of those specified herein." Commentary to revised Rule 010 in the 2023 NESC Handbook explains that (1) "utility facilities" was removed from Rules 010A and 010B to further clarify that "the purpose of the NESC is the safeguarding of persons (public and employees) and not utility facilities"; and (2) language was added to Rule 010C to make clear "that it is not practical or reasonable to expect the Code to develop criteria for abnormal or extreme weather events," with hurricanes given as a specific example.

Accordingly, utilities should evaluate their systems and the appropriate wind loading standards to apply for purposes of enhancing the resiliency of their system, which is a different objective than the NESC standards are designed to achieve, and that evaluation may suggest utilities should exceed NESC safety standards to enhance resiliency. The NESC standards are not resiliency standards, and nothing in the NESC prohibits or limits a utility's ability to consider other factors beyond safety and practicality in developing its resiliency standards in excess of the minimum requirements of the NESC. Indeed, such considerations are an important part of Entergy Texas, Inc.'s proposed Resiliency Plan.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. CR69
	Ending Sequence No. CR70

Question No.: STAFF 1-68 Part No.: Addendum:

Transmission Infrastructure

Question:

Please explain your process for evaluating the hardening of transmission lines. If you file an annual storm hardening report under 16 TAC § 25.95, do not merely recite information provided in those filings. In your response, please include an explanation for the following:

a. How frequently this evaluation is conducted?

b. What criteria is utilized for this evaluation?

c. When do you decide to harden transmission lines?

Response:

a.-c. Entergy Texas, Inc. ("ETI") has an annual process to evaluate the reliability of its transmission system and develop plans to improve reliability. The first step of the process is identifying transmission lines with equipment related outages. The lines with multiple outages are then analyzed for signs that components or whole structures on the line that have reached the end of their useful life. Lines identified in the process in need of a level of renewal are then prioritized for funding by their impact on the ETI transmission system. Projects developed through this process include the replacement of legacy non-storm hardened structures with structures that meet the Company's current extreme weather design criteria. Criteria used during this evaluation include historical outages, known damage, and ETI transmission system impact.

Additionally, after adopting the current transmission design basis (2022) used by the Company for extreme wind loading, an analysis of all Texas Transmission structures was performed with the assistance of 1898 & Co. to generate a list of potential hardening projects. To determine if a structure was a candidate for hardening, the structures' wind loading capability were compared against the 2022 design basis requirement. If the wind loading capability of the structure met or

exceeded the 2022 design basis requirement, the structure was not considered a hardening candidate.

Hardening candidates were then evaluated through a Storm Impact Model to determine likelihood of failure during a major storm event. Factors that determine the likelihood of failure are the wind speed differential between the structure and wind speeds associated with 49 unique storm types, age of structure, and vegetation density near the structure.

After a likelihood of failure was determined for each structure with regard to the 49 storm types, 1,000 Monte Carlo simulations were run to develop a future storm world. From these simulations, a comparison was performed between the status quo (unhardened structure) and the hardened structure to determine the benefits of avoided restoration cost and avoided customer minutes interrupted. Comparing these benefits to the cost of hardening the structure provides the benefit cost ratio used to prioritize hardening projects. The hardening projects are part of ETI's Texas Future Ready Resiliency Plan. In Docket No. 56735, ETI is seeking Commission approval to construct a subset of these projects over the next 3 years. ETI plans to seek Commission approval of the remaining projects in future years as part of the overall Texas Future Ready Resiliency Plan.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.
to the First Set of Data Requests
of Requesting Party: Commission Staff

Prepared By:
Sponsoring Witness: Francis Shannon
Beginning Sequence No. PI51
Ending Sequence No. PI52

Question No.: STAFF 1-69 Part No.: Addendum:

Transmission Infrastructure

Question:

Please provide the number of transmission structures that were in service before the May 2024 Derecho. In your response, please provide quantities by structure type and NESC wind loading criteria of the structure.

Response:

Please refer to the below table for transmission structures in service as of May 1, 2024

	Extreme Wind Design							
Structure Type	**90-99 MPH**	**100-109 MPH**	**110-119 MPH**	**120-129 MPH**	**130-139 MPH**	**140-149 MPH**	**≥150 MPH**	**Total**
GUYED ALUMINIUM	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**3**
3-Pole				1				1
Single							2	2
LATTICE STEEL	**2**	**0**	**0**	**9**	**914**	**40**	**0**	**968**
H-Frame								3
Single				4	584	8		596
Tower	2			5	330	32		369
SPUN CONCRETE	**295**	**518**	**0**	**228**	**1414**	**1508**	**0**	**3963**
2-Pole						1		1
3-Pole	1	7		7	20	17		52
H-Frame	36	32		37	136	70		311
Single	258	479		184	1258	1420		3599

Question No.: STAFF 1-69

TUBULAR STEEL	**26**	**1545**	**327**	**731**	**1468**	**1912**	**59**	**6071**
2-Pole		29					2	31
3-Pole	1	27	2	7	18	41		96
H-Frame	4	163		13	283	85		548
Single	21	1326	325	711	1170	1786	57	5396
WOOD	**14072**	**0**	**0**	**0**	**8**	**2**	**0**	**14082**
3-Pole	137							137
H-Frame	7359				1	1		7361
Single	6576				7	1		6584
Grand Total	**14393**	**2063**	**327**	**960**	**2890**	**3422**	**61**	**24119**

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. CR71
	Ending Sequence No. CR73

Question No.: STAFF 1-70 Part No.: Addendum:

Transmission Infrastructure

Question:

Please provide the total number of transmission structures that failed due to the May 2024 Derecho. In your response, please provide separate quantities for each structure type and NESC wind loading criteria of the structure, and separately identify the number of structure failures caused by either high wind or structural loading from vegetation or debris.

Response:

During the May 16, 2024 severe thunderstorm event, five Entergy Texas, Inc. transmission structures failed. Please see attachment (TP-56822-00PUS001-X070).

May 16, 2024 Severe Thunderstorm

Line Name	Line Number	Voltage	Structure Identifier	Initiating Cause
Cypress - Hightower	L-187	138kV	190	Vegetation
Cypress - Hightower	L-187	138kV	191	Vegetation
Cleveland - Southline	L-808	138kV	210	Vegetation
Hardin Tap - Hardin	L-594	69kV	74	Wind
Somerville -Navasota	L-60	69kV	203	Wind

Existing Pole Type	Existing Pole Wind Criteria	New Pole Type	New Pole Wind Criteria
Wooden H-Frame	Predated Modern Design Criteria (Assumed 90mph)	Steel H-Frame	125 MPH
Wooden H-Frame	Predated Modern Design Criteria (Assumed 90mph)	Steel H-Frame	125 MPH
Wooden 3 Pole Swing (Guyed)	Predated Modern Design Criteria (Assumed 90mph)	Steel 3 Pole Swing (Self Supporting)	125 MPH
Wooden Single Pole	Predated Modern Design Criteria (Assumed 90mph)	Steel Single Pole	125 MPH
Wooden Single Pole	Predated Modern Design Criteria (Assumed 90mph)	Steel Single Pole	100 MPH

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. CR74
	Ending Sequence No. CR76

Question No.: STAFF 1-71 Part No.: Addendum:

Transmission Infrastructure

Question:

Please provide the total number of transmission structures that failed due to Hurricane Beryl. In your response, please provide separate quantities for each structure type and NESC wind loading criteria of the structure, and separately identify the number of structure failures caused by either high wind or structural loading from vegetation or debris.

Response:

During Hurricane Beryl, six Entergy Texas, Inc. transmission structures failed. Please see the attachment (TP-56822-00PUS001-X071).

Beryl

Line Name	Line Number	Voltage	Structure Identifier	Initiating Cause	Existing Pole Type
Mid County - Memorial	563	138kV	332	Wind	Wooden 3 Pole Deadend (Guyed)
Eastgate - Huffman	802	138kV	6	Wind	Wooden Single Pole
Oak Ridge - Porter	582	138kV	46	Vegetation	Wooden H-Frame
Oak Ridge - Porter	582	138kV	52	Vegetation	Wooden H-Frame
Raywood - South Liberty	440	69kV	1227	Vegetation	Wooden Single Pole
Porter - Splendora	571	138kV	176	Vegetation	Wooden H-Frame

Existing Pole Wind Criteria	New Pole Type	New Pole Wind Criteria
Predated Modern Design Criteria (Assumed 90mph)	Steel 3 Pole Deadend (Self Supporting)	150 MPH
Predated Modern Design Criteria (Assumed 90mph)	Steel Single Pole	125 MPH
Predated Modern Design Criteria (Assumed 90mph)	Steel Single Pole	110 MPH
Predated Modern Design Criteria (Assumed 90mph)	Steel Single Pole	110 MPH
Predated Modern Design Criteria (Assumed 90mph)	Steel Single Pole	125 MPH
Predated Modern Design Criteria (Assumed 90mph)	Steel Single Pole	110 MPH

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witness: Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. PI65
	Ending Sequence No. PI66

Question No.: STAFF 1-72 Part No.: Addendum:

Transmission Infrastructure

Question:

For each transmission structure that failed due to the May 2024 Derecho or Hurricane Beryl, please provide the date of the last inspection and explain the planned frequency of those inspections. Additionally, please provide the most recent inspection report for each structure that failed.

Response:

Information included in the response contains protected ("highly sensitive") materials. Specifically, the responsive materials are protected pursuant to Texas Government Code Sections 552.101 and/or 552.110. Confidential materials will be provided pursuant to the terms of the Commission's standard Protective Order.

Entergy Texas, Inc's transmission lines are inspected on a 10-year cycle to check for rotten and decaying wood structures. Additionally, routine aerial helicopter and unmanned aircraft system (drone) patrols are flown biannually by transmission line and vegetation personnel to look for impending damages that could affect reliability. Please see the highly sensitive attachment (TP-56822-00PUS001-X072_HSPM) which includes the available inspection information.

DESIGNATION OF PROTECTED MATERIALS PURSUANT TO PARAGRAPH 4 OF DOCKET NO. 56822 PROTECTIVE ORDER

The Response to this Request for Information includes Protected Materials within the meaning of the Protective Order in force in this Docket. Public Information Act exemptions applicable to this information include Tex. Gov't Code Sections 552.101 and/or 552.110. ETI asserts that this information is exempt from public disclosure under the Public Information Act and subject to treatment as Protected Materials because it concerns competitively sensitive commercial and/or financial information and/or information designated confidential by law.

Counsel for ETI has reviewed this information sufficiently to state in good faith that the information is exempt from public disclosure under the Public Information Act and merits the Protected Materials Designation.

George Hoyt
Entergy Texas, Inc.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc. to the First Set of Data Requests of Requesting Party: Commission Staff	Prepared By: Sponsoring Witnesses: Melanie Taylor, Francis Shannon Beginning Sequence No. CR77 Ending Sequence No. CR78

Question No.: STAFF 1-73 Part No.: Addendum:

Vegetation Management

Question:

Provide the following information concerning your vegetation management staff:

a. Provide the current size of your vegetation management staff. Your response should include a separate figure for full-time staff and independent contractors.

b. Provide the average size of your vegetation management staff over the last 5 years. Your response should include a separate figure for full-time staff and independent contractors.

c. Please explain how you determined the appropriate level of full-time vegetation management staff for each of the last 5 years.

d. Provide the cost difference per circuit-mile between using contractors versus in-house vegetation management crews.

e. Whether you retain an arborist as part of your permanent vegetation management staff or have an arborist consult with your vegetation management crews.

Response:

a. Entergy Texas, Inc.'s ("ETI") vegetation management organization is comprised of both an internal full-time staff and third-party contractors. The internal organization is staffed with 12 vegetation professionals who are responsible for the development, oversight, execution, and compliance of the vegetation management program. All vegetation management work activities are performed by third-party contractors, as is common with most investor-owned utilities. This third-party contract management workforce is the most cost-effective means of performing this type of work. The contractual agreements also allow access to an additional workforce to

quickly respond to emerging needs. While the number of contract resources may fluctuate throughout the year, currently there are 260 contract resources performing vegetation work on ETI's system.

b. The average size of ETI's internal vegetation department staff over the last 5 years is 12 vegetation professionals. The size of ETI's full-time vegetation management contractor personnel fluctuates but has generally averaged around 260 personnel over the last 5 years.

c. ETI's vegetation work plan and scope are developed by an analytics-based vegetation planning model, inspections, and emergent work. The volume of work then determines the size of the work force required to complete the work. See the Company's response to subpart b.

d. See the Company's response to subpart a. While the exact difference is subject to several evolving factors (changing compensation, market supply and demand for personnel, etc.), in general, it is significantly more cost-effective to maintain vegetation management crews on a contract basis, enabling the Company to utilize more crews at a given cost.

e. ETI has multiple certified arborists and degreed foresters on staff within its internal vegetation management department.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc. to the First Set of Data Requests of Requesting Party: Commission Staff	Prepared By: Sponsoring Witnesses: Melanie Taylor, Francis Shannon Beginning Sequence No. CR79 Ending Sequence No. CR80

Question No.: STAFF 1-74 Part No.: Addendum:

Vegetation Management

Question:

Please describe the minimum clearance standard for vegetation along transmission and distribution power lines at various voltage levels and how these clearances were derived based on your service territory.

Response:

For Entergy Texas, Inc.'s ("ETI") distribution system, the following specifications are utilized: Trees shall be trimmed as to provide a maximum clearance from primary conductors. All trees, at a minimum, shall be trimmed back to the previous trim point (amount of clearance obtained during the last trim, including previous sky-trims) or per the distances in the table below, whichever is greater. All overhanging limbs within 20 feet of the primary conductor(s) shall be removed. All dead, broken, or diseased limbs that are overhanging the conductor(s) or that could hinge into the conductor(s), regardless of height, shall be removed. For open-wire secondary, unless otherwise indicated by a designated company representative, minimum tree clearances shall be 10 feet or minimum primary clearance levels for slow growing species.

Minimum Acceptable Tree to Primary Wire Clearances – Below and Side Clearances			
Rate of Tree Growth	Urban (ft.)	Rural (ft.)	Example Tree Species
Slow	6	10	live oak, eastern red cedar, southern magnolia
Fast	10	15	sugarberry (hackberry), sweetgum, elm, water oak, sycamore, willow, Chinese tallow. pecan, maple, ash, hickory, black cherry, pine

For ETI's transmission system, the Company trims the transmission corridors to the edge of the right of way. The right of way width varies based on the line voltage and construction. See the table below:

Question No.: STAFF 1-74

Transmission Line Voltage	Legacy ROW Width (feet)	NEW H Frame ROW Width (feet)	NEW Single Pole Delta / Vert Double Ckt Width (feet)	NEW Single Pole Vertical Width (feet)
500 kV	180	225	125	125
345 kV	150	190	155	135
230 kV	125	150	125	110
138 kV	100	120	100	90
69 kV	50	90	75	65

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc. to the First Set of Data Requests of Requesting Party: Commission Staff	Prepared By: Sponsoring Witnesses: Melanie Taylor, Francis Shannon Beginning Sequence No. CR12 Ending Sequence No. CR12

Question No.: STAFF 1-75 Part No.: Addendum:

Vegetation Management

Question:

Does your company incorporate any inspection of high customer count circuit segments to proactively identify problematic vegetation for circuits that may be outside their normal cycle period?

Response:

Yes. The Company performs patrols based on past reliability performance, vegetation condition, and high customer count.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc. to the First Set of Data Requests of Requesting Party: Commission Staff	Prepared By: Sponsoring Witnesses: Melanie Taylor, Francis Shannon Beginning Sequence No. PI53 Ending Sequence No. PI53

Question No.: STAFF 1-76 Part No.: Addendum:

Vegetation Management

Question:

Please provide inspection logs and field reports from workers who performed VM services in the Impacted Area for the past five years.

Response:

Information included in the response contains protected ("highly sensitive") materials. Specifically, the responsive materials are protected pursuant to Texas Government Code Sections 552.101 and/or 552.110. Confidential materials will be provided pursuant to the terms of the Protective Order in this docket.

Please see the highly sensitive attachment (TP-56822-00PUS001-X076_HSPM) which contains information from annual distribution circuit inspection logs/reports and annual transmission line patrols. The first tab shows the distribution outage inspection/investigation log for all vegetation related outages on devices with more than 50 customers. The second tab shows the annual inspections for the distribution circuits identified for targeted patrols based upon the previous year's reliability performance. The third tab shows the full transmission inspection log report by line name/segment and year. The fourth tab shows the summary of transmission work identified/completed by type and year.

DESIGNATION OF PROTECTED MATERIALS PURSUANT TO PARAGRAPH 4 OF DOCKET NO. 56822 PROTECTIVE ORDER

The Response to this Request for Information includes Protected Materials within the meaning of the Protective Order in force in this Docket. Public Information Act exemptions applicable to this information include Tex. Gov't Code Sections 552.101 and/or 552.110. ETI asserts that this information is exempt from public disclosure under the Public Information Act and subject to treatment as Protected Materials because it concerns competitively sensitive commercial and/or financial information and/or information designated confidential by law.

Counsel for ETI has reviewed this information sufficiently to state in good faith that the information is exempt from public disclosure under the Public Information Act and merits the Protected Materials Designation.

George Hoyt
Entergy Texas, Inc.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc. to the First Set of Data Requests of Requesting Party: Commission Staff	Prepared By: Sponsoring Witnesses: Melanie Taylor, Francis Shannon Beginning Sequence No. CR13 Ending Sequence No. CR13

Question No.: STAFF 1-77 Part No.: Addendum:

Vegetation Management

Question:

Does your company conduct proactive vegetation management on feeders located in hurricane prone areas? If so, how far in advance of hurricane season do you send out vegetation management crews?

Response:

Yes. Entergy Texas, Inc.'s ("ETI's") program includes year-round vegetation management activities across the Company's service territory, including in hurricane prone areas. As part of ETI's incident response activities, it also performs pre-landfall patrols to address any vegetation issues likely to impact critical load customers.

ENTERGY TEXAS, INC.
PUBLIC UTILITY COMMISSION OF TEXAS
PROJECT NO. 56822

Response of: Entergy Texas, Inc.	Prepared By:
to the First Set of Data Requests	Sponsoring Witnesses: Melanie Taylor, Francis Shannon
of Requesting Party: Commission Staff	Beginning Sequence No. CR81
	Ending Sequence No. CR81

Question No.: STAFF 1-78 Part No.: Addendum:

Vegetation Management

Question:

Please provide a list of the circuits that experienced a vegetation-related outage during the May 2024 Derecho and Hurricane Beryl, and provide the following information pertaining to the circuits identified:

a. The name of the circuit(s);

b. The date, time, and duration of the outage; Unique feeder list, First call time out on the Feeder, average duration

c. The voltage of the circuit(s);

d. A description of the cause of the outage;

e. The NERC category (Grow-In, Fall-In, Blow-In) associated with the outage.

Response:

a.-d. Please see attachment (TP-56822-00PUS001-X078).

e. The North American Electric Reliability Corporation ("NERC") categories apply to transmission only. In addition, because the transmission outages referenced were caused by a natural disaster, NERC cause codes were not developed.

Circuit	FIRST CALL DATE TIME	AVG Duration Minutes	Voltage (kV)	Cause Description
112MC	5/16/24 19:45	149.40612	13.2	Overhanging Limb
121EL	5/16/24 19:27	789.9144	13.2	Tree/Limb Growing Inside R.O.W.
127SO	5/16/24 17:14	691.257	13.2	Tree On Line Outside R.O.W.
141LV	5/16/24 19:51	818.7972	13.2	Overhanging Limb
151RS	5/16/24 19:32	1299.6846	13.2	Tree On Line Outside R.O.W.
152RS	5/16/24 15:38	90.33492	13.2	Overhanging Limb
154BE	5/16/24 19:29	740.7444	34.5	Tree On Line Outside R.O.W.
155BE	5/16/24 19:19	204.72012	34.5	Overhanging Limb
156BE	5/16/24 19:30	626.9904	34.5	Tree On Line Outside R.O.W.
163VD	5/16/24 19:45	940.5198	13.2	Tree On Line Outside R.O.W.
257GV	5/16/24 15:49	83.17512	13.2	Tree/Limb Growing Inside R.O.W.
268RV	5/16/24 16:34	1091.9598	34.5	Tree On Line Outside R.O.W.
269RV	5/16/24 15:45	2155.0632	34.5	Overhanging Limb
26HRN	5/16/24 18:35	357.69756	34.5	Overhanging Limb
310SP	5/16/24 19:02	590.71074	13.2	Tree/Limb Growing Inside R.O.W.
317TA	5/16/24 18:19	1505.6028	13.2	Tree On Line Outside R.O.W.
31BRC	5/16/24 19:59	83.66838	13.2	Tree On Line Outside R.O.W.
320AP	5/16/24 18:28	1336.3368	13.2	Tree On Line Outside R.O.W.
342JT	5/16/24 19:20	1603.581	34.5	Tree On Line Outside R.O.W.
345JT	5/16/24 17:53	102.1392	34.5	Overhanging Limb
350PW	5/16/24 18:27	1098.2502	13.2	Overhanging Limb
364HT	5/16/24 18:41	904.1424	34.5	Tree On Line Outside R.O.W.
365HT	5/16/24 17:58	1179.1704	34.5	Overhanging Limb
380MC	5/16/24 19:48	745.848	34.5	Tree On Line Outside R.O.W.
406CV	5/16/24 17:59	802.6932	13.2	Tree On Line Outside R.O.W.
40LNB	5/16/24 20:00	1583.7696	13.2	Tree On Line Outside R.O.W.
425CV	5/16/24 17:13	3281.7276	34.5	Tree On Line Outside R.O.W.
426CV	5/16/24 17:15	718.4934	34.5	Tree On Line Outside R.O.W.
432KT	5/16/24 18:27	1775.2284	34.5	Tree On Line Outside R.O.W.
436TI	5/16/24 16:32	865.7634	13.2	Overhanging Limb
453KT	5/16/24 18:19	765.6762	34.5	Tree On Line Outside R.O.W.
462SI	5/16/24 19:00	2559.8976	13.2	Tree On Line Outside R.O.W.
471NS	5/16/24 18:32	1399.3176	13.2	Tree On Line Outside R.O.W.
476MD	5/16/24 18:30	3014.9382	13.2	Tree on Line from Inside R.O.W
477MD	5/16/24 18:31	1205.0166	13.2	Tree On Line Outside R.O.W.
4CAL	5/16/24 15:06	193.36518	34.5	Tree On Line Outside R.O.W.
506WR	5/16/24 16:58	568.07718	13.2	Tree On Line Outside R.O.W.
513CN	5/16/24 17:53	145.00944	13.2	Tree On Line Outside R.O.W.
521BW	5/16/24 17:08	563.86668	34.5	Overhanging Limb
537LA	5/16/24 17:32	660.9102	13.2	Overhanging Limb
539LA	5/16/24 17:34	914.0166	13.2	Tree/Limb Growing Inside R.O.W.
545PL	5/16/24 17:44	339.49524	13.2	Tree On Line Outside R.O.W.
546PL	5/16/24 17:38	2587.8318	13.2	Overhanging Limb
549JT	5/16/24 17:45	1704.9492	34.5	Tree on Line from Inside R.O.W
552EP	5/16/24 17:31	695.4036	34.5	Tree On Line Outside R.O.W.
570DC	5/16/24 16:07	192.28716	34.5	Tree On Line Outside R.O.W.
577CN	5/16/24 18:39	717.0834	34.5	Vine Growing into Line
592WR	5/16/24 16:49	1186.5144	34.5	Tree On Line Outside R.O.W.
594WD	5/16/24 16:34	425.68446	13.2	Tree On Line Outside R.O.W.
598TA	5/16/24 18:33	2158.2636	13.2	Tree On Line Outside R.O.W.
600HU	5/16/24 16:50	1271.9238	34.5	Tree On Line Outside R.O.W.
608HU	5/16/24 17:14	1223.7054	13.2	Tree On Line Outside R.O.W.
611HU	5/16/24 15:51	150.80742	34.5	Tree On Line Outside R.O.W.
634WT	5/16/24 17:18	1127.6172	13.2	Tree On Line Outside R.O.W.
654VT	5/16/24 18:14	443.50644	13.2	Tree On Line Outside R.O.W.
657VT	5/16/24 17:10	189.35424	13.2	Tree On Line Outside R.O.W.
670GE	5/16/24 16:11	273.3096	13.2	Tree On Line Outside R.O.W.
711MG	5/16/24 16:53	2841.5706	13.2	Tree On Line Outside R.O.W.
724DY	5/16/24 18:37	2496.1362	13.2	Tree On Line Outside R.O.W.
727DY	5/16/24 18:45	1076.874	13.2	Overhanging Limb
736CY	5/16/24 18:45	1038.5172	13.2	Tree/Limb Growing Inside R.O.W.
738CY	5/16/24 18:19	167.67426	13.2	Tree/Limb Growing Inside R.O.W.
740OK	5/16/24 17:59	705.8358	13.2	Tree On Line Outside R.O.W.
741DA	5/16/24 19:19	985.7988	13.2	Tree On Line Outside R.O.W.
743DA	5/16/24 18:58	2608.0092	13.2	Tree On Line Outside R.O.W.
744DA	5/16/24 18:50	1444.2732	13.2	Tree On Line Outside R.O.W.
750FO	5/16/24 18:41	161.7615	34.5	Tree On Line Outside R.O.W.
763AL	5/16/24 18:16	113.92326	34.5	Tree On Line Outside R.O.W.
806PD	5/16/24 15:36	217.50972	34.5	Overhanging Limb
904NA	5/16/24 16:36	242.00892	13.2	Tree/Limb Growing Inside R.O.W.
920DO	5/16/24 17:06	274.34172	34.5	Tree On Line Outside R.O.W.
92CHI	5/16/24 19:21	1013.0964	13.2	Overhanging Limb
981GR	5/16/24 16:19	115.85754	34.5	Tree On Line Outside R.O.W.
982GR	5/16/24 16:02	263.72124	34.5	Tree On Line Outside R.O.W.

* note: Based on intended transmission design, unplanned outages on transmission lines do not necessarily result in interruptions.

Circuit	FIRST CALL DATE TIME	Duration Minutes*	Voltage (kV)	Cause Description
HIGHTOWER - CYPRESS 138.00 kV (187)	5/16/2024 5:40:00 AM	5992	138	Fell From On R-O-W
CLEVELAND [TX] - SOUTHLINE 138.00 kV (808)	5/16/2024 5:53:00 AM	14580	138	Fell From Off R-O-W
ETEC URLAND - WARREN 138.00 kV (589)	5/16/2024 5:55:00 AM	1320	138	Fell From Off R-O-W
HIGHTOWER-RYE CO (187.1)	5/16/2024 5:57:00 AM	1474	138	Fell From Off R-O-W
JACINTO - PEACH CREEK 230.00 kV (524)	5/16/2024 5:57:00 AM	3280	230	Fell From Off R-O-W
JACINTO - CLEVELAND [TX] 138.00 kV (579)	5/16/2024 6:11:00 AM	less than 1 minute	138	Fell From Off R-O-W
BATSON - SOUR LAKE 69.00 kV (55)	5/16/2024 6:26:00 AM	211	69	Fell From Off R-O-W
SARATOGA JUNCTION SS - SARATOGA 69.00 kV (102)	5/16/2024 6:26:00 AM	211	69	Fell From Off R-O-W
KOUNTZE BULK - EVADALE 138.00 kV (538)	5/16/2024 6:28:00 AM	1169	138	Fell From Off R-O-W
CHINA - SHECO BATISTE CREEK 230.00 kV (583)	5/16/2024 7:01:00 AM	2591	230	Fell From Off R-O-W
FOREST [TX] - GOSLIN 138.00 kV (320)	5/17/2024 7:04:00 AM	11357	138	Fell From Off R-O-W
BENTWATER - GRIMES 138.00 kV (113)	5/17/2024 9:07:00 AM	5895	138	Fell From On R-O-W

Circuit	First Call Date Time	AVG Duration Minutes	Voltage (kV)	Cause Description
102CD	7/8/24 9:59	839.92	13.2	Tree/Limb Growing Inside R.O.W.
104SL	7/8/24 10:20	4384.90	13.2	Tree On Line Outside R.O.W.
105SL	7/8/24 7:05	4559.86	13.2	Tree On Line Outside R.O.W.
121EL	7/8/24 9:06	2715.22	13.2	Tree On Line Outside R.O.W.
122EL	7/8/24 7:00	1198.15	13.2	Tree On Line Outside R.O.W.
123EL	7/8/24 6:10	1831.14	13.2	Tree/Limb Growing Inside R.O.W.
127SO	7/8/24 11:03	91.24	13.2	Tree/Limb Growing Inside R.O.W.
131CE	7/8/24 9:29	1769.32	13.2	Overhanging Limb
131VI	7/8/24 10:12	3968.91	13.2	Tree On Line Outside R.O.W.
134TG	7/8/24 6:13	654.35	13.2	Overhanging Limb
154BE	7/8/24 10:31	1101.75	34.5	Tree/Limb Growing Inside R.O.W.
155BE	7/8/24 8:12	1680.83	34.5	Tree/Limb Growing Inside R.O.W.
156BE	7/8/24 8:52	2173.32	34.5	Tree On Line Outside R.O.W.
157HA	7/8/24 7:21	672.48	13.2	Overhanging Limb
161VD	7/8/24 10:50	3040.36	13.2	Overhanging Limb
162VD	7/8/24 7:37	2784.70	13.2	Tree On Line Outside R.O.W.
163VD	7/8/24 6:56	2240.83	13.2	Tree/Limb Growing Inside R.O.W.
164VD	7/8/24 11:27	3020.79	13.2	Tree/Limb Growing Inside R.O.W.
17LOB	7/8/24 7:04	1300.92	13.2	Tree/Limb Growing Inside R.O.W.
180AM	7/8/24 7:03	1191.31	34.5	Tree On Line Outside R.O.W.
182AM	7/8/24 8:21	1878.57	34.5	Tree/Limb Growing Inside R.O.W.
185PS	7/8/24 6:13	527.17	13.2	Tree On Line Outside R.O.W.
18LOB	7/8/24 8:59	1452.51	13.2	Tree On Line Outside R.O.W.
193NE	7/8/24 12:12	2708.02	34.5	Tree On Line Outside R.O.W.
204TB	7/8/24 7:46	3922.15	13.2	Tree On Line Outside R.O.W.
206TB	7/8/24 6:12	4177.55	13.2	Tree On Line From Outside R.O.W.
211BA	7/8/24 6:01	2961.18	13.2	Tree On Line Outside R.O.W.
213BA	7/8/24 4:43	4800.06	13.2	Tree/Limb Growing Inside R.O.W.
21NOE	7/8/24 9:20	3187.23	13.2	Tree On Line Outside R.O.W.
22YAN	7/8/24 9:32	3281.70	13.2	Tree On Line Outside R.O.W.
239CR	7/8/24 9:35	4698.88	34.5	Tree on Line from Inside R.O.W
23HKS	7/8/24 6:42	1538.39	13.2	Tree/Limb Growing Inside R.O.W.
251KP	7/8/24 11:22	7224.26	34.5	Tree On Line Outside R.O.W.
261TR	7/8/24 9:50	8852.23	13.2	Tree/Limb Growing Inside R.O.W.
268RV	7/8/24 9:50	4170.02	34.5	Tree On Line Outside R.O.W.
269RV	7/8/24 8:29	5300.70	34.5	Tree On Line Outside R.O.W.
270BC	7/8/24 7:21	4198.92	13.2	Tree/Limb Growing Inside R.O.W.
280ML	7/8/24 14:26	344.74	13.2	Overhanging Limb
281ML	7/8/24 11:55	993.25	13.2	Tree On Line Outside R.O.W
29NOE	7/8/24 7:03	1711.48	4.2	Tree On Line Outside R.O.W.
304NC	7/8/24 7:03	6161.36	13.2	Tree On Line Outside R.O.W.
307SP	7/8/24 6:11	8332.11	13.2	Tree On Line Outside of R.O.W
308FR	7/8/24 11:57	7014.20	13.2	Overhanging Limb

308SP	7/8/24 7:12	6364.17	13.2	Tree Fell On Line From Outside R.O.W
309SP	7/8/24 7:00	5773.85	13.2	Tree Fell On Line From Outside R.O.W
30BRC	7/8/24 9:00	1832.99	13.2	Tree On Line Outside R.O.W.
310SP	7/8/24 7:18	5694.32	13.2	Tree On Line Outside R.O.W.
311SP	7/8/24 6:20	7003.04	13.2	Tree On Line Outside R.O.W.
316TA	7/8/24 7:33	9238.35	13.2	Tree Fell On Line From Outside R.O.W
317TA	7/8/24 9:07	10306.02	13.2	Tree Fell On Line From Outside R.O.W
31BRC	7/8/24 7:06	1875.20	13.2	Vine Growing into Line
320AP	7/8/24 6:20	7839.17	13.2	Tree Fell On Line From Outside R.O.W
324CO	7/8/24 6:30	2321.53	13.2	Vegetation - Overloaded Line
325CO	7/8/24 9:40	2912.42	13.2	Overhanging Limb
326CO	7/8/24 11:51	1357.64	13.2	Overhanging Limb
333NC	7/8/24 9:00	3283.28	34.5	Tree On Line Outside R.O.W.
334NC	7/8/24 5:41	6906.58	34.5	Tree On Line Outside R.O.W.
335NC	7/8/24 3:33	1407.15	34.5	Tree On Line Outside R.O.W.
336NC	7/8/24 6:30	7557.15	34.5	Tree On Line Outside of R.O.W
337NC	7/8/24 6:39	4005.53	34.5	Tree On Line Outside R.O.W.
338NC	7/8/24 6:43	3494.44	34.5	Tree On Line Outside of R.O.W
340WN	7/8/24 9:45	751.56	13.2	Overhanging Limb
341WN	7/8/24 6:43	675.46	13.2	Tree On Line Outside R.O.W.
342JT	7/8/24 5:22	6632.68	34.5	Tree On Line Outside of R.O.W
342WN	7/8/24 11:39	3705.11	13.2	Vine Growing into Line
343JT	7/8/24 6:21	8831.04	34.5	Tree On Line Outside R.O.W.
345JT	7/8/24 6:46	8462.82	34.5	Tree On Line Outside R.O.W.
345OI	7/8/24 6:47	3047.49	13.2	Tree On Line Outside R.O.W.
346JT	7/8/24 7:28	7195.47	34.5	Tree On Line Outside R.O.W.
34KOL	7/8/24 14:10	1636.16	13.2	Tree On Line Outside of R.O.W
350ON	7/8/24 10:07	3076.63	13.2	Tree On Line Outside R.O.W.
350PW	7/8/24 3:32	9492.01	13.2	Tree On Line Outside R.O.W.
351ON	7/8/24 13:36	4464.23	13.2	Tree On Line Outside R.O.W.
351PW	7/8/24 9:55	5562.19	13.2	Tree On Line Outside R.O.W.
35HDN	7/8/24 8:25	2162.39	13.2	Tree On Line Outside R.O.W.
35KOL	7/8/24 7:29	2721.08	13.2	Tree On Line Outside R.O.W.
360BD	7/8/24 9:31	2729.94	13.2	Tree On Line Outside of R.O.W
360HT	7/8/24 7:44	8566.92	34.5	Tree On Line Outside R.O.W.
361BD	7/8/24 10:53	787.38	13.2	Tree On Line Outside R.O.W.
361HT	7/8/24 12:31	6195.57	34.5	Overhanging Limb
362HT	7/8/24 6:25	7340.80	34.5	Tree On Line Outside of R.O.W
363BD	7/8/24 9:19	1680.55	13.2	Tree On Line Outside R.O.W.
363HT	7/8/24 5:53	7305.16	34.5	Tree On Line Outside R.O.W.
364HT	7/8/24 6:26	8195.98	34.5	Tree On Line Outside R.O.W.
365HT	7/8/24 7:35	7505.54	34.5	Tree On Line Outside of R.O.W
36KOL	7/8/24 6:38	1660.53	13.2	Vine Growing into Line
374MR	7/8/24 11:46	1798.56	13.2	Tree On Line Outside R.O.W.
375MR	7/8/24 5:58	2836.58	13.2	Tree On Line Outside R.O.W.
37TYR	7/8/24 6:56	1698.06	13.2	Tree/Limb Growing Inside R.O.W.
380MC	7/8/24 7:31	517.14	34.5	Tree On Line Outside R.O.W.
381MC	7/8/24 9:41	903.74	34.5	Vine Growing into Line
382MC	7/8/24 10:51	1400.02	34.5	Tree On Line Outside R.O.W.

403CV	7/8/24 7:26	6392.83	13.2	Vine Growing into Line
404CV	7/8/24 7:28	5750.85	13.2	Tree on Line from Inside R.O.W
406CV	7/8/24 8:40	10696.19	13.2	Tree On Line Outside R.O.W.
425CV	7/8/24 5:30	10152.96	34.5	Tree On Line Outside R.O.W.
426CV	7/8/24 6:46	8246.56	34.5	Tree On Line Outside of R.O.W.
432KT	7/8/24 10:15	1609.20	34.5	Tree On Line Outside R.O.W.
433TI	7/8/24 9:28	1716.74	13.2	Tree On Line Outside R.O.W.
436TI	7/8/24 5:31	10736.11	13.2	Tree On Line Outside of R.O.W.
437TI	7/8/24 9:33	6621.17	13.2	Tree On Line Outside R.O.W.
43LNB	7/8/24 8:56	416.14	13.2	Tree/Limb Growing Inside R.O.W.
441LU	7/8/24 7:11	733.58	34.5	Tree On Line Outside R.O.W.
452KT	7/8/24 7:44	1093.89	34.5	Tree On Line Outside R.O.W.
453KT	7/8/24 10:10	1893.81	34.5	Tree on Line from Inside R.O.W
456FL	7/8/24 9:45	1692.32	13.2	Tree On Line Outside R.O.W.
457FL	7/8/24 2:53	2188.54	13.2	Tree On Line Outside of R.O.W.
45PTN	7/8/24 10:48	1456.20	13.2	Tree On Line Outside of R.O.W.
461SI	7/8/24 9:27	561.41	13.2	Tree On Line Outside of R.O.W.
462SI	7/8/24 9:30	1550.23	13.2	Tree on Line from Inside R.O.W
46PTN	7/8/24 6:45	1889.71	13.2	Tree/Limb Growing Inside R.O.W.
471NS	7/8/24 7:37	1058.42	13.2	Tree on Line from Inside R.O.W
476MD	7/8/24 6:51	1328.19	13.2	Tree On Line Outside R.O.W.
477MD	7/8/24 6:13	646.99	13.2	Tree On Line Outside of R.O.W.
478MD	7/8/24 14:31	539.62	13.2	Overhanging Limb
479MD	7/8/24 7:15	2044.61	13.2	Tree On Line Outside of R.O.W.
491LI	7/8/24 11:52	1340.85	13.2	Overhanging Limb
4CAL	7/8/24 11:27	11641.66	34.5	Tree On Line Outside R.O.W.
504CN	7/8/24 8:59	3559.92	13.2	Overhanging Limb
505CN	7/8/24 7:21	5996.99	13.2	Tree On Line Outside R.O.W.
506CN	7/8/24 8:59	4182.08	13.2	Tree on Line from Inside R.O.W
506WR	7/8/24 9:21	2048.07	13.2	Tree On Line Outside R.O.W.
507CN	7/8/24 4:34	6461.04	13.2	Tree on Line from Inside R.O.W
511CN	7/8/24 7:29	3220.34	13.2	Tree On Line Outside of R.O.W.
512CN	7/8/24 6:33	3470.95	13.2	Tree on Line from Inside R.O.W
513CN	7/8/24 8:57	3325.26	13.2	Tree on Line from Inside R.O.W
514CN	7/8/24 7:41	3480.37	13.2	Tree on Line from Inside R.O.W
515CN	7/8/24 9:15	3307.29	34.5	Tree On Line Outside of R.O.W.
516CN	7/8/24 7:41	3309.10	34.5	Tree On Line Outside of R.O.W.
519DO	7/8/24 6:54	3342.26	34.5	Tree On Line Outside R.O.W.
520BW	7/8/24 7:44	6118.73	34.5	Tree On Line Outside R.O.W.

521BW	7/8/24 9:04	2851.70	34.5	Tree On Line Outside R.O.W
522BW	7/8/24 7:03	2330.99	34.5	Tree On Line Outside of R.O.W.
525PA	7/8/24 7:26	6531.28	13.2	Vegetation Outside Fence
529CM	7/8/24 14:40	1696.37	34.5	Overhanging Limb
535SH	7/8/24 10:27	6480.23	13.2	Tree On Line Outside of R.O.W.
536SH	7/8/24 9:01	6683.24	13.2	Tree On Line Outside of R.O.W.
537LA	7/8/24 7:25	4029.70	13.2	Tree On Line Outside R.O.W.
538LA	7/8/24 7:50	6533.83	13.2	Vegetation Outside Fence
539LA	7/8/24 9:52	7501.45	13.2	Tree On Line Outside R.O.W
53BAT	7/8/24 5:45	1333.49	13.2	Tree On Line Outside R.O.W.
540LA	7/8/24 6:52	4664.54	13.2	Tree On Line Outside R.O.W
544JT	7/8/24 7:02	7003.76	34.5	Tree On Line Outside R.O.W.
545PL	7/8/24 7:01	9968.19	13.2	Vegetation Outside Fence
546PL	7/8/24 7:19	8265.13	13.2	Tree On Line Outside R.O.W.
549JT	7/8/24 6:31	11800.74	34.5	Tree On Line Outside R.O.W
550EP	7/8/24 9:45	7288.63	34.5	Tree On Line Outside R.O.W.
551EP	7/8/24 7:56	5038.13	34.5	Tree/Limb Growing Inside R.O.W.
552EP	7/8/24 6:54	6601.47	34.5	Tree On Line Outside R.O.W
560WD	7/8/24 8:37	2446.14	13.2	Tree On Line Outside R.O.W
562WD	7/8/24 8:50	4866.01	34.5	Tree On Line Outside R.O.W.
563WD	7/8/24 7:59	4724.73	34.5	Tree On Line Outside R.O.W.
566CR	7/8/24 6:33	5198.61	34.5	Tree On Line Outside R.O.W.
567CR	7/8/24 6:39	5393.29	13.2	Tree on Line from Inside R.O.W
568DC	7/8/24 9:35	904.98	34.5	Tree/Limb Growing Inside R.O.W.
569DC	7/8/24 13:17	2091.60	34.5	Tree/Limb Growing Inside R.O.W.
570CR	7/8/24 7:01	4731.20	34.5	Tree/Limb Growing Inside R.O.W.
570DC	7/8/24 10:02	2471.89	34.5	Tree On Line Outside R.O.W.
572CN	7/8/24 6:20	2823.76	34.5	Tree on Line from Inside R.O.W
574CN	7/8/24 9:10	3421.45	34.5	Tree On Line Outside R.O.W
575CN	7/8/24 9:06	5013.09	34.5	Tree On Line Outside R.O.W
576CN	7/8/24 7:36	5039.45	34.5	Tree On Line Outside R.O.W
577CN	7/8/24 6:33	3068.12	34.5	Tree/Limb Growing Inside R.O.W.
580LM	7/8/24 6:54	8950.61	34.5	Tree On Line Outside R.O.W.