Xcel Energy Circuit Table: 2020

Sections A-E:
Circuit ID: Xcel feeder circuit name
Primary Region: If circuit serves customers in more than 1 region, the region listed Is the one where the largest % of the circuit customer base is in
Zip Code: Zip code of the substation
Customers/% Split/Miles: Year-end customer count on feeder

Section F:
Normalized Indices: All normalized results are based on IEEE 1366 applied to all levels at the regional level(Annual Rules Method)

Section G:
i. All Levels: Includes outages from all causes on all levels
ii. Bulk Power Supply: Includes outages from all causes on the Distribution Substation, Transmission Substation & Transmission Line levels
iii. With Out Planned: Includes outages from all causes except Planned on all levesl(including bulk power)
iv. Only Planned: Includes outages from only Planned causes on all levesl(including bulk power)

Section H: Cause categories
All categories include only Distribution Line & Substations level outages, except Power Supply which includes only Transmission Substations & Lines level outages
i. Equipment OH: Overhead distribution system equipment cause codes or device type
ii. Equipment UG: Underground distribution system equipment cause codes or interrupting device type
iii. Lightning: Lightning cause coded outages
iv. Other: Outage causes that do not fall into any of the other categories
v. Power Supply: Outages on the Transmission Substation & Transmission Line levels
vi. Planned: Outages that are planned cause code only
vii. Public: Outages caused by public or fire/police requested
viii. Unknown: Outages where a cause cannot be determined
ix. Vegetation: Vegetation Tree-related coded outages
x. Weather Non-Lightning: Outages caused by weather not related to Lightning or equipment failures
xi. Wildlife: Outages where an animal contact was determined to be the cause

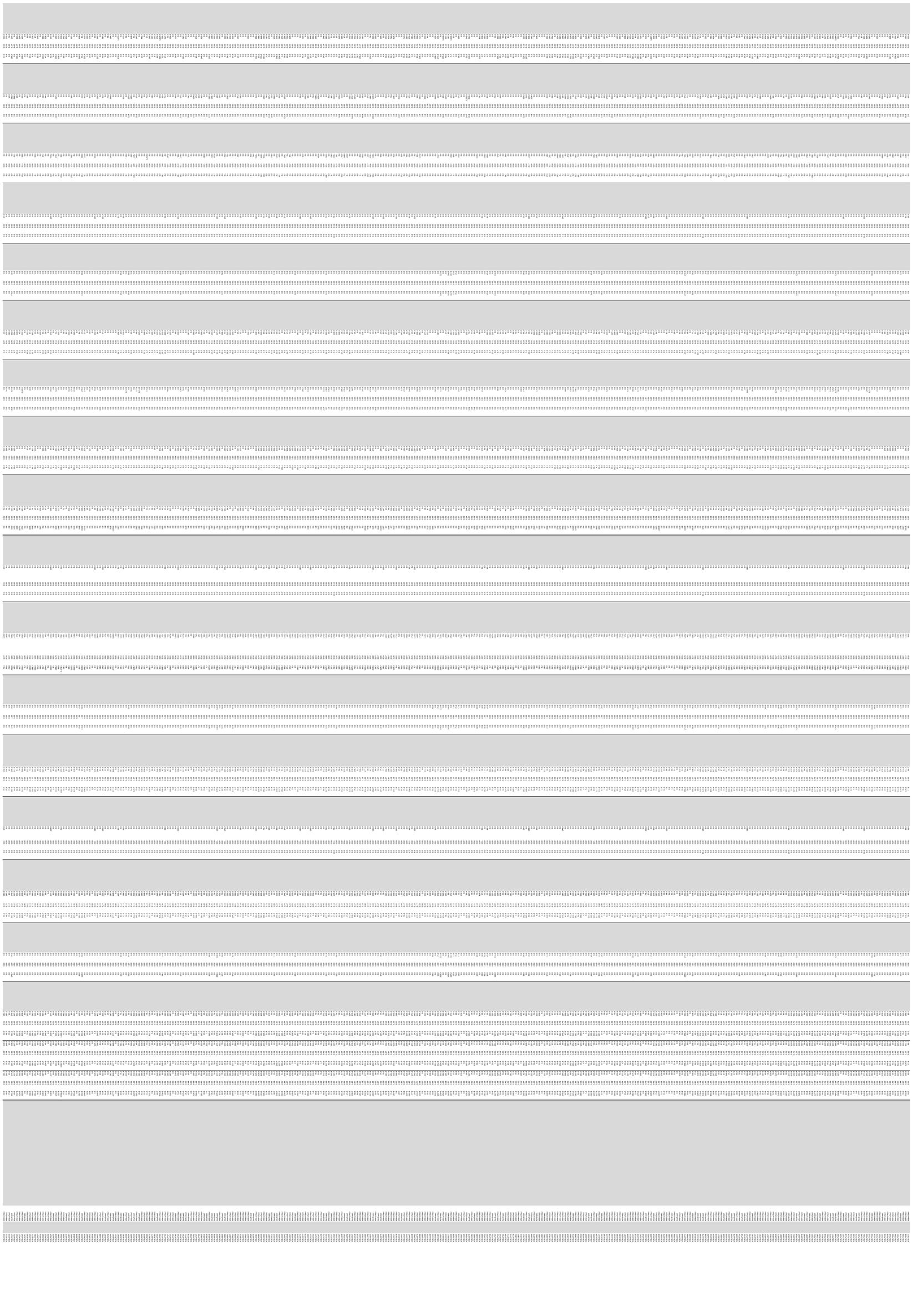
Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12	Col. 13	Col. 14	Col. 15	Col. 16	Col. 17
Sections A, B, C, D, & E											Section F					
	[NOT PUBLIC DATA BEGINS...		[NOT PUBLIC DATA BEGINS...								All Days - All Levels			Normalized - All Levels		
Circuit ID	Circuit ID	Primary Region	Substation	Zip Code	Customers	% Residential	% Commercial	% Industrial	% Miles OH	% Miles UG	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
XCEL1023		Metro West									137.9	0.50	275.7	137.9	0.50	275.7
XCEL1050		Metro West									1.6	0.04	41.2	1.6	0.04	41.2
XCEL1052		Metro West									45.3	0.35	130.9	32.3	0.26	124.7
XCEL1065		Metro West									108.7	0.87	125.4	108.7	0.87	125.4
XCEL1069		Metro East									649.1	5.17	125.6	349.8	3.94	88.7
XCEL1097		Metro East									233.7	3.51	66.6	233.7	3.51	66.6
XCEL1103		Southeast									123.6	0.49	253.8	85.4	0.45	190.2
XCEL1105		Metro East									282.9	1.62	174.6	282.3	1.61	175.3
XCEL1112		Metro East									167.2	0.56	300.4	167.2	0.56	300.4
XCEL1124		Metro West									94.4	1.23	76.5	91.4	1.23	74.4
XCEL1128		Metro East									57.3	0.34	166.9	57.3	0.34	166.9
XCEL1138		Metro West									0.0	0.00	0.0	0.0	0.00	0.0
XCEL1146		Metro West									35.4	0.32	111.1	35.4	0.32	111.4
XCEL1152		Metro West									14.2	0.15	93.2	14.2	0.15	93.2
XCEL1155		Metro West									34.4	0.20	173.8	34.4	0.20	173.8
XCEL1169		Metro West									0.5	0.02	31.9	0.5	0.02	31.9
XCEL1194		Southeast									58.2	1.00	58.0	58.2	1.00	58.0
XCEL1199		Metro West									69.1	0.33	212.5	51.9	0.27	195.4
XCEL1214		Metro West									41.4	0.40	103.8	20.9	0.29	72.8
XCEL1225		Northwest									11.0	0.04	256.1	6.8	0.03	229.0
XCEL1238		Metro East									46.6	0.23	205.2	46.6	0.23	205.2

Col. 1	Col. 18	Col. 19	Col. 20	Col. 21	Col. 22	Col. 23	Col. 24	Col. 25	Col. 26	Col. 27	Col. 28	Col. 29	Col. 30	Col. 31	Col. 32	Col. 33	Col. 34	Col. 35	Col. 36	Col. 37	Col. 38	Col. 39	Col. 40	Col. 41
	Section G i.						ii.						iii.						iv.					
	All Days - All Levels			[NOT PUBLIC DATA BEGINS...			All Days - Bulk Power			[NOT PUBLIC DATA BEGINS...			All Days - All Levels WO Planned			[NOT PUBLIC DATA BEGINS...			All Days - All Levels Only Planned			[NOT PUBLIC DATA BEGINS...		
Circuit ID	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO
XCEL1023	137.9	0.50	275.7				0.0	0.00	0.0				137.9	0.50	275.7				0.0	0.00	0.0			
XCEL1050	1.6	0.04	41.2				0.0	0.00	0.0				1.6	0.04	41.2				0.0	0.00	0.0			
XCEL1052	45.3	0.35	130.9				0.0	0.00	0.0				44.9	0.34	130.6				0.3	0.00	174.5			
XCEL1065	108.7	0.87	125.4				0.0	0.00	0.0				108.7	0.87	125.4				0.0	0.00	0.0			
XCEL1069	649.1	5.17	125.6				0.0	0.00	0.0				649.1	5.17	125.6				0.0	0.00	0.0			
XCEL1097	233.7	3.51	66.6				118.0	2.00	59.0				233.7	3.51	66.6				0.0	0.00	0.0			
XCEL1103	123.6	0.49	253.8				0.0	0.00	0.0				119.3	0.47	252.7				4.3	0.02	287.4			
XCEL1105	282.9	1.62	174.6				0.0	0.00	0.0				282.9	1.62	174.6				0.0	0.00	0.0			
XCEL1112	167.2	0.56	300.4				0.0	0.00	0.0				167.2	0.56	300.4				0.0	0.00	0.0			
XCEL1124	94.4	1.23	76.5				0.0	0.00	0.0				94.4	1.23	76.5				0.0	0.00	0.0			
XCEL1128	57.3	0.34	166.9				0.0	0.00	0.0				57.3	0.34	167.1				0.1	0.00	80.2			
XCEL1138	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1146	35.4	0.32	111.1				0.0	0.00	0.0				35.4	0.32	111.1				0.0	0.00	0.0			
XCEL1152	14.2	0.15	93.2				0.0	0.00	0.0				14.2	0.15	93.2				0.0	0.00	0.0			
XCEL1155	34.4	0.20	173.8				0.0	0.00	0.0				34.4	0.20	173.8				0.0	0.00	0.0			
XCEL1169	0.5	0.02	31.9				0.0	0.00	0.0				0.5	0.02	31.9				0.0	0.00	0.0			
XCEL1194	58.2	1.00	58.0				58.2	1.00	58.0				58.2	1.00	58.0				0.0	0.00	0.0			
XCEL1199	69.1	0.33	212.5				0.0	0.00	0.0				69.1	0.33	212.5				0.0	0.00	0.0			
XCEL1214	41.4	0.40	103.8				0.0	0.00	0.0				41.4	0.40	103.8				0.0	0.00	0.0			
XCEL1225	11.0	0.04	256.1				0.0	0.00	0.0				11.0	0.04	256.1				0.0	0.00	0.0			
XCEL1238	46.6	0.23	205.2				0.0	0.00	0.0				46.6	0.23	205.2				0.0	0.00	0.0			

Col. 1	Col. 42	Col. 43	Col. 44	Col. 45	Col. 46	Col. 47	Col. 48	Col. 49	Col. 50	Col. 51	Col. 52	Col. 53	Col. 54	Col. 55	Col. 56	Col. 57	Col. 58	Col. 59	Col. 60	Col. 61	Col. 62	Col. 63	Col. 64	Col. 65
	i.						ii.						iii.						iv.					
	Normalized - All Levels			[NOT PUBLIC DATA BEGINS...			Normalized - Bulk Power			[NOT PUBLIC DATA BEGINS...			Normalized - All Levels WO Planned Count			[NOT PUBLIC DATA BEGINS...			Normalized - All Levels Only Planned			[NOT PUBLIC DATA BEGINS...		
Circuit ID	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO
XCEL1023	137.9	0.50	275.7				0.0	0.00	0.0				137.9	0.50	275.7				0.0	0.00	0.0			
XCEL1050	1.6	0.04	41.2				0.0	0.00	0.0				1.6	0.04	41.2				0.0	0.00	0.0			
XCEL1052	32.3	0.26	124.7				0.0	0.00	0.0				32.0	0.26	124.3				0.3	0.00	174.5			
XCEL1065	108.7	0.87	125.4				0.0	0.00	0.0				108.7	0.87	125.4				0.0	0.00	0.0			
XCEL1069	349.8	3.94	88.7				0.0	0.00	0.0				349.8	3.94	88.7				0.0	0.00	0.0			
XCEL1097	233.7	3.51	66.6				118.0	2.00	59.0				233.7	3.51	66.6				0.0	0.00	0.0			
XCEL1103	85.4	0.45	190.2				0.0	0.00	0.0				81.1	0.43	186.8				4.3	0.02	287.4			
XCEL1105	282.3	1.61	175.3				0.0	0.00	0.0				282.3	1.61	175.3				0.0	0.00	0.0			
XCEL1112	167.2	0.56	300.4				0.0	0.00	0.0				167.2	0.56	300.4				0.0	0.00	0.0			
XCEL1124	91.4	1.23	74.4				0.0	0.00	0.0				91.4	1.23	74.4				0.0	0.00	0.0			
XCEL1128	57.3	0.34	166.9				0.0	0.00	0.0				57.3	0.34	167.1				0.1	0.00	80.2			
XCEL1138	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1146	35.4	0.32	111.4				0.0	0.00	0.0				35.4	0.32	111.4				0.0	0.00	0.0			
XCEL1152	14.2	0.15	93.2				0.0	0.00	0.0				14.2	0.15	93.2				0.0	0.00	0.0			
XCEL1155	34.4	0.20	173.8				0.0	0.00	0.0				34.4	0.20	173.8				0.0	0.00	0.0			
XCEL1169	0.5	0.02	31.9				0.0	0.00	0.0				0.5	0.02	31.9				0.0	0.00	0.0			
XCEL1194	58.2	1.00	58.0				58.2	1.00	58.0				58.2	1.00	58.0				0.0	0.00	0.0			
XCEL1199	51.9	0.27	195.4				0.0	0.00	0.0				51.9	0.27	195.4				0.0	0.00	0.0			
XCEL1214	20.9	0.29	72.8				0.0	0.00	0.0				20.9	0.29	72.8				0.0	0.00	0.0			
XCEL1225	6.8	0.03	229.0				0.0	0.00	0.0				6.8	0.03	229.0				0.0	0.00	0.0			
XCEL1238	46.6	0.23	205.2				0.0	0.00	0.0				46.6	0.23	205.2				0.0	0.00	0.0			

Col. 1	Col. 66	Col. 67	Col. 68	Col. 69	Col. 70	Col. 71	Col. 72	Col. 73	Col. 74	Col. 75	Col. 76	Col. 77	Col. 78	Col. 79	Col. 80	Col. 81	Col. 82	Col. 83	Col. 84	Col. 85	Col. 86	Col. 87	Col. 88	Col. 89
	Section H i.						ii.						iii.						iv.					
	All Days - Equip OH			[NOT PUBLIC DATA BEGINS...			All Days - Equip UG			[NOT PUBLIC DATA BEGINS...			All Days - Lightning			[NOT PUBLIC DATA BEGINS...			All Days - Other			[NOT PUBLIC DATA BEGINS...		
Circuit ID	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO
XCEL1023	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				77.8	0.13	602.8			
XCEL1050	0.2	0.00	189.5				0.0	0.00	0.0				0.0	0.00	0.0				0.7	0.01	48.2			
XCEL1052	2.7	0.02	131.8				7.1	0.04	166.2				0.0	0.00	0.0				1.1	0.04	29.4			
XCEL1065	0.0	0.00	38.0				102.2	0.71	143.4				0.0	0.00	0.0				6.3	0.15	42.8			
XCEL1069	91.1	1.09	83.5				3.8	0.02	182.5				0.0	0.00	0.0				27.7	0.55	50.0			
XCEL1097	125.4	2.09	59.9				0.4	0.00	441.0				0.0	0.00	0.0				16.3	0.19	84.5			
XCEL1103	6.0	0.07	88.5				89.0	0.24	368.7				9.9	0.03	381.0				0.0	0.00	0.0			
XCEL1105	67.9	0.24	286.2				117.6	1.00	117.0				0.0	0.00	0.0				5.5	0.05	108.4			
XCEL1112	27.1	0.09	310.4				74.2	0.13	551.7				0.0	0.00	0.0				63.6	0.31	205.9			
XCEL1124	1.4	0.03	50.0				5.2	0.06	93.8				0.0	0.00	105.0				2.7	0.03	107.8			
XCEL1128	0.0	0.00	0.0				38.6	0.17	232.5				0.0	0.00	0.0				15.3	0.13	113.4			
XCEL1138	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1146	0.0	0.00	0.0				32.8	0.30	109.7				0.0	0.00	0.0				2.4	0.02	131.2			
XCEL1152	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				1.2	0.01	202.4			
XCEL1155	0.0	0.00	0.0				32.6	0.18	176.3				0.0	0.00	0.0				1.9	0.01	139.6			
XCEL1169	0.5	0.02	31.9				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1194	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1199	0.7	0.01	140.0				8.6	0.03	297.4				10.3	0.03	397.6				5.4	0.04	137.1			
XCEL1214	6.1	0.11	54.3				0.3	0.00	264.3				0.0	0.00	0.0				2.6	0.03	97.9			
XCEL1225	5.1	0.02	239.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1238	8.5	0.09	93.0				0.0	0.00	0.0				0.0	0.00	0.0				38.2	0.14	280.0			

Col. 1	Col. 90	Col. 91	Col. 92	Col. 93	Col. 94	Col. 95	Col. 96	Col. 97	Col. 98	Col. 99	Col. 100	Col. 101	Col. 102	Col. 103	Col. 104	Col. 105	Col. 106	Col. 107	Col. 108	Col. 109	Col. 110	Col. 111	Col. 112	Col. 113	Col. 114	Col. 115	Col. 116	Col. 117	Col. 118	Col. 119
	v.						vi.						vii.						viii.						ix.					
	All Days - Power Supply			[NOT PUBLIC DATA BEGINS...			All Days - Planned			[NOT PUBLIC DATA BEGINS...			All Days - Public			[NOT PUBLIC DATA BEGINS...			All Days - Unknown			[NOT PUBLIC DATA BEGINS...			All Days - Vegetation			[NOT PUBLIC DATA BEGINS...		
Circuit ID	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO	SAIDI	SAIFI	CAIDI	Count	SCI	CMO
XCEL1023	0.0	0.00	0.0				0.0	0.00	0.0				60.1	0.37	162.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1050	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	32.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1052	0.0	0.00	0.0				0.3	0.00	174.5				0.1	0.00	143.0				0.1	0.00	145.0				31.9	0.22	144.7			
XCEL1065	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.2	0.01	24.5				0.0	0.00	0.0			
XCEL1069	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				4.4	0.06	71.8				520.3	3.41	152.4			
XCEL1097	0.0	0.00	0.0				0.0	0.00	0.0				71.5	1.00	71.2				0.0	0.00	0.0				14.9	0.12	119.9			
XCEL1103	0.0	0.00	0.0				4.3	0.02	287.4				0.0	0.00	0.0				0.0	0.00	0.0				1.1	0.01	199.0			
XCEL1105	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				83.1	0.27	312.0			
XCEL1112	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1124	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.3	0.00	332.0				80.4	1.06	76.1			
XCEL1128	0.0	0.00	0.0				0.1	0.00	80.2				0.0	0.00	0.0				2.0	0.03	69.0				0.0	0.00	0.0			
XCEL1138	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1146	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1152	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.1	0.00	106.5			
XCEL1155	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1169	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1194	58.2	1.00	58.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			
XCEL1199	0.0	0.00	0.0				0.0	0.00	0.0				6.1	0.02	331.0				17.8	0.07	253.6				15.6	0.10	157.1			
XCEL1214	0.0	0.00	0.0				0.0	0.00	0.0				0.8	0.02	34.0				0.0	0.00	0.0				30.1	0.20	149.1			
XCEL1225	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				5.9	0.02	273.2			
XCEL1238	0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0				0.0	0.00	0.0			



XCEL7314	Southeast	85.9	0.66	130.1	85.9	0.66	130.1	85.9	0.66	130.1
XCEL7325	Metro West	126.3	0.41	308.4	102.7	0.39	261.5	126.3	0.41	308.4
XCEL7332	Southeast	251.2	3.07	81.9	251.2	3.07	81.9	251.2	3.07	81.9
XCEL7346	Northwest	65.6	1.01	65.0	0.0	0.00	0.0	65.6	1.01	65.0
XCEL7364	Metro West	103.5	2.11	49.0	103.5	2.11	49.0	103.5	2.11	49.0
XCEL7370	Metro West	192.2	4.26	45.1	99.0	4.07	24.3	192.2	4.26	45.1
XCEL7371	Metro East	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0
XCEL7375	Northwest	95.7	2.14	44.8	89.6	2.13	42.1	95.7	2.14	44.8
XCEL7404	Northwest	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0
XCEL7408	Northwest	10.6	0.18	58.9	10.6	0.18	58.9	10.6	0.18	58.9
XCEL7422	Metro West	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0
XCEL7423	Metro West	560.6	1.99	281.8	560.6	1.99	281.8	560.6	1.99	281.8
XCEL7445	Metro West	154.5	1.06	145.7	154.5	1.06	145.7	154.5	1.06	145.7
XCEL7457	Metro East	89.3	0.57	155.9	89.3	0.57	155.9	89.3	0.57	155.9
XCEL7483	Northwest	32.7	0.31	106.1	32.7	0.31	106.1	32.7	0.31	106.1
XCEL7494	Metro West	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0
XCEL7495	Metro East	183.5	1.39	131.6	183.5	1.39	131.6	183.5	1.39	131.6
XCEL7502	Metro West	180.3	0.55	330.6	47.6	0.43	111.6	180.3	0.55	330.6
XCEL7510	Metro West	193.6	3.00	64.6	105.7	2.52	42.0	193.6	3.00	64.6
XCEL7511	Metro West	83.8	0.39	215.8	51.5	0.33	157.5	83.8	0.39	215.8
XCEL7527	Southeast	97.7	1.04	94.2	97.7	1.04	94.2	97.7	1.04	94.2
XCEL7551	Metro West	81.3	1.41	57.6	81.3	1.41	57.6	81.3	1.41	57.6
XCEL7568	Northwest	5.6	0.04	133.6	5.6	0.04	133.6	5.6	0.04	133.6
XCEL7569	Northwest	16.2	0.14	114.5	16.2	0.14	114.5	16.2	0.14	114.5
XCEL7573	Metro East	156.3	1.27	123.5	156.3	1.27	123.5	156.3	1.27	123.5
XCEL7588	Southeast	442.3	3.57	123.9	336.1	3.12	107.7	442.3	3.57	123.9
XCEL7592	Metro East	22.9	0.19	122.2	22.9	0.19	122.2	22.9	0.19	122.2
XCEL7601	Metro East	170.5	3.06	55.7	170.5	3.06	55.7	170.5	3.06	55.7
XCEL7608	Metro West	2.4	0.02	133.8	2.4	0.02	133.8	2.4	0.02	133.8
XCEL7614	Metro East	76.0	0.41	187.3	58.3	0.39	151.2	76.0	0.41	187.3
XCEL7629	Metro East	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0
XCEL7641	Metro West	138.7	1.14	121.8	133.3	1.13	117.9	138.7	1.14	121.8
XCEL7648	Metro East	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0