



Control Number: 29165



Item Number: 25

Addendum StartPage: 0

PROJECT NO. 29165

2003 ELECTRIC SYSTEM) PUBLIC UTILITY COMMISSION
SERVICE QUALITY REPORT)
PURSUANT TO)
SUBST. R. §§25.81 AND 25.52) OF TEXAS

RESPONSE OF SOUTHWESTERN PUBLIC SERVICE COMPANY
TO STAFF'S SERVICE QUALITY INFORMATION REQUEST

Introduction

Pursuant to the request of the Public Utility Commission of Texas ("Commission" or "PUCT"), Southwestern Public Service Company ("SPS" or "Southwestern") responds as follows to the Commission's Service Quality Information Request filed on April 16, 2004.

Responses

The Commission is requesting that SPS respond to the following requests:

- 1. Provide complete records of all sustained interruptions, by interruption class, for the months of April and October, 2003. [Subst. R. §25.52(d)]**

Response: See Attachment A for this information.

A-1 Forced Interruptions April-October 2003

A-2 Planned April-October 2003

A-3 Outside April-October 2003

Major Events-None.

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2. Provide the number of significant interruptions sustained during 2003 and the number lasting more than 24 hours. [Subst. R. §25.52(c)(5) and §25.52(e)(2)]

Response:

Number of Significant Interruptions Sustained in 2003

> 1 Hour for Forced and Outside Causes outages

> 4 Hours for Scheduled outages

Cause Category	# of Outages	% Total	Customer Interruptions	% Total
Forced	2,231	63,333	2	10
Scheduled	8	28	0	0
Outside Causes	26	25,286	1	1
Major Events	0	0	0	0
	2,265	88,647	3	11

See Attachment B for further information.

B-1 Forced > 1 hour detail

B-2 Scheduled > 4 hours detail

B-3 Outside Causes > 1 hour detail

Major Events-None.

3. Provide the number of forced interruptions attributable to each clause shown on the 2003 Service Quality Report.

Response:

Forced Interruptions Attributable to Cause Categories

Cause Category	# of Outages	% Total	Customer Interruptions	% Total
Weather	1,624	38.45%	44,883	39.13%
Vegetation	434	10.27%	2,184	1.90%
Animal	558	13.21%	10,637	9.27%
People	232	5.49%	18,405	16.05%
Utility Owned Equipment	718	17.00%	29,363	25.60%
Other	236	5.59%	4,587	4.00%
Unknown	422	9.99%	4,641	4.05%
	4,224	100.00%	114,700	100.00%

4. Describe the methodology used to calculate the annual average SAIFI value for each interruption class shown on the 2003 Service Quality Report. Include a description of the data used for the calculations.

Response:

See Attachment C.

5. Describe the methodology used to calculate the annual average SAIDI value for each interruption class shown on the 2003 Service Quality Report. Include a description of the data used for the calculations.

Response:

See Attachment D.

- 6. Describe the methodology used to calculate the system-wide SAIFI standard for 2003, and include a description of the data used for the calculation. Provide the standard for 2003 and provide the calculation showing how this standard was determined. [Subst. R. §25.52(f)(1)]**

Response:

Methodology used to calculate the system-wide SAIFI standard for 2003.

- 1) 1998, 1999, and 2000 Forced SAIFI values were used.
- 2) The average of those three years was calculated.
- 3) 5% was added to the average.
- 4) 2003 Forced Annual SAIFI value was compared with the 3 year average+5%.
- 5) If 2003 SAIFI - (3 year average+5%) is negative, no system-wide standard is exceed.
- 6) Calculation

1998 SAIFI = 0.5120

1999 SAIFI = 0.7887

2000 SAIFI = 0.6081

Average 98-00 SAIFI = 0.6363

5% of average = 0.0318

Avg + 5% = 0.6681

2003 SAIFI = 0.4100

2003 - Avg+5% = -0.2581 Negative Value, 2003 below standard threshold,
Standard is met.

7. Describe the methodology used to calculate the system-wide SAIDI standard for 2003, and include a description of the data used for the calculation. Provide the standard for 2003 and provide the calculation showing how this standard was determined. [Subst. R. §25.52(f)(1)]

Response:

Methodology used to calculate the system-wide SAIDI standard for 2003.

- 1) 1998, 1999, and 2000 Forced SAIDI values were used.
- 2) The average of those three years was calculated.
- 3) 5% was added to the average.
- 4) 2003 Forced Annual SAIDI value was compared with the 3 year average+5%.
- 5) If 2003 SAIFI - (3 year average+5%) is negative, no system-wide standard is exceed.
- 6) Calculation

1998 SAIDI =	36.290
1999 SAIDI =	55.090
2000 SAIDI =	45.278

Average 98-00 SAIDI =	45.553
5% of average =	2.277

Avg + 5% =	47.830
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2003 SAIDI =	32.970
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2003 - Avg+5% =	-14.860	Negative Value, 2003 below standard threshold, Standard is met.
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8. Identify and list the feeders on the 2003 Service Quality Report that did not meet either the SAIDI or SAIFI requirements of Subst. R. §25.52(f)(2)(A). Explain why each feeder did not meet the requirements and what action(s)

have been or will be taken to achieve compliance for the feeder (i.e., to prevent the feeder repeating for a third year).

Response:

See Attachment E.

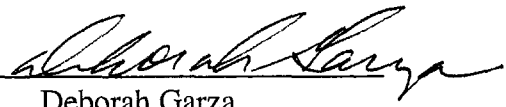
9. Identify and list the feeders on the 2003 Service Quality Report that did not meet either the SAIDI or SAIFI requirements of Subst R. §25.52(f)(2)(B). Explain why each feeder did not meet the requirements and what action(s) have been or will be taken to achieve compliance for the feeder. Describe the methodology used to calculate the SAIDA [sic] and SAIFI system averages of all feeders for purposes of identifying the listed feeders, and provide the calculations.

Response:

See Attachment F.

Respectfully submitted,

SOUTHWESTERN PUBLIC SERVICE COMPANY

By: 
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(512-478-9232 (FAX))

All Back In Service Date										PS-Completion										Customer Mileage										CS-17 to CS-18										CS-19 to CS-20										CS-21 to CS-22										CS-23 to CS-24										CS-25 to CS-26										CS-27 to CS-28										CS-29 to CS-30										CS-31 to CS-32										CS-33 to CS-34										CS-35 to CS-36										CS-37 to CS-38										CS-39 to CS-40										CS-41 to CS-42										CS-43 to CS-44										CS-45 to CS-46										CS-47 to CS-48										CS-49 to CS-50										CS-51 to CS-52										CS-53 to CS-54										CS-55 to CS-56										CS-57 to CS-58										CS-59 to CS-60										CS-61 to CS-62										CS-63 to CS-64										CS-65 to CS-66										CS-67 to CS-68										CS-69 to CS-70										CS-71 to CS-72										CS-73 to CS-74										CS-75 to CS-76										CS-77 to CS-78										CS-79 to CS-80										CS-81 to CS-82										CS-83 to CS-84										CS-85 to CS-86										CS-87 to CS-88										CS-89 to CS-90										CS-91 to CS-92										CS-93 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Month	Day	ID	CIS-TR	TKN	TM	All Back In Service	Date/Time	No of Customers Impacted	CustMin	Duration	DivID	Cause of Incident	CauseType	Trans	Dist	TransCktNum
4	19	130076	4/19/2003	2:28:00	PM	4/19/2003	3:55:00 PM	1845	160515	87	TexasNorth	Environmental	Wind	Trans		V92
4	15	129988	4/15/2003	4:51:00	PM	4/15/2003	5:26:00 PM	2858	100030	35	TexasNorth	Environmental	Wind	Trans		Y51
4	28	130220	4/28/2003	8:49:00	PM	4/28/2003	9:55:00 PM	139	8954	66	TexasSouth	Environmental	Wind	Trans		z60
4	15	129974	4/15/2003	6:38:00	PM	4/16/2003	11:24:00 AM	8	5256	1006	TexasSouth	Environmental	Lightning	Trans		z25
4	15	129970	4/15/2003	6:15:00	PM	4/16/2003	11:34:00 PM	1	317	1759	TexasSouth	Environmental	Wind	Trans		y84
								4851	275072							
10	8	133166	10/8/2003	12:27:00	PM	10/8/2003	1:14:00 PM	3722	89228	47	TexasNorth	Environmental	Rain	Trans		cou
								3722	89228							

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Index	Category	Item	Value	Unit	Material	Quantity	Unit Price	Total Price	Notes
1	Construction	Excavation	100	m³	Excavation	100	100	10000	Excavation of site
2	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building
3	Construction	Structure	300	m³	Structure	300	300	90000	Structure of building
4	Construction	Roofing	150	m²	Roofing	150	150	22500	Roofing of building
5	Construction	Interior	400	m²	Interior	400	400	160000	Interior of building
6	Construction	Exterior	250	m²	Exterior	250	250	62500	Exterior of building
7	Construction	Landscaping	100	m²	Landscaping	100	100	10000	Landscaping of site
8	Construction	Site Work	50	m³	Site Work	50	50	2500	Site work of building
9	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building
10	Construction	Structure	300	m³	Structure	300	300	90000	Structure of building
11	Construction	Roofing	150	m²	Roofing	150	150	22500	Roofing of building
12	Construction	Interior	400	m²	Interior	400	400	160000	Interior of building
13	Construction	Exterior	250	m²	Exterior	250	250	62500	Exterior of building
14	Construction	Landscaping	100	m²	Landscaping	100	100	10000	Landscaping of site
15	Construction	Site Work	50	m³	Site Work	50	50	2500	Site work of building
16	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building
17	Construction	Structure	300	m³	Structure	300	300	90000	Structure of building
18	Construction	Roofing	150	m²	Roofing	150	150	22500	Roofing of building
19	Construction	Interior	400	m²	Interior	400	400	160000	Interior of building
20	Construction	Exterior	250	m²	Exterior	250	250	62500	Exterior of building
21	Construction	Landscaping	100	m²	Landscaping	100	100	10000	Landscaping of site
22	Construction	Site Work	50	m³	Site Work	50	50	2500	Site work of building
23	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building
24	Construction	Structure	300	m³	Structure	300	300	90000	Structure of building
25	Construction	Roofing	150	m²	Roofing	150	150	22500	Roofing of building
26	Construction	Interior	400	m²	Interior	400	400	160000	Interior of building
27	Construction	Exterior	250	m²	Exterior	250	250	62500	Exterior of building
28	Construction	Landscaping	100	m²	Landscaping	100	100	10000	Landscaping of site
29	Construction	Site Work	50	m³	Site Work	50	50	2500	Site work of building
30	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building
31	Construction	Structure	300	m³	Structure	300	300	90000	Structure of building
32	Construction	Roofing	150	m²	Roofing	150	150	22500	Roofing of building
33	Construction	Interior	400	m²	Interior	400	400	160000	Interior of building
34	Construction	Exterior	250	m²	Exterior	250	250	62500	Exterior of building
35	Construction	Landscaping	100	m²	Landscaping	100	100	10000	Landscaping of site
36	Construction	Site Work	50	m³	Site Work	50	50	2500	Site work of building
37	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building
38	Construction	Structure	300	m³	Structure	300	300	90000	Structure of building
39	Construction	Roofing	150	m²	Roofing	150	150	22500	Roofing of building
40	Construction	Interior	400	m²	Interior	400	400	160000	Interior of building
41	Construction	Exterior	250	m²	Exterior	250	250	62500	Exterior of building
42	Construction	Landscaping	100	m²	Landscaping	100	100	10000	Landscaping of site
43	Construction	Site Work	50	m³	Site Work	50	50	2500	Site work of building
44	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building
45	Construction	Structure	300	m³	Structure	300	300	90000	Structure of building
46	Construction	Roofing	150	m²	Roofing	150	150	22500	Roofing of building
47	Construction	Interior	400	m²	Interior	400	400	160000	Interior of building
48	Construction	Exterior	250	m²	Exterior	250	250	62500	Exterior of building
49	Construction	Landscaping	100	m²	Landscaping	100	100	10000	Landscaping of site
50	Construction	Site Work	50	m³	Site Work	50	50	2500	Site work of building
51	Construction	Foundation	200	m³	Foundation	200	200	40000	Foundation for building

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1	7	15	2023	1	P	735/250	86796	735/50	206	Teashtown	Hersted	TX	Hersted	TX	685	Farmas	TX	Anatlio
2	7	15	2023	2	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
3	7	15	2023	3	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
4	7	15	2023	4	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
5	7	15	2023	5	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
6	7	15	2023	6	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
7	7	15	2023	7	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
8	7	15	2023	8	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
9	7	15	2023	9	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
10	7	15	2023	10	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
11	7	15	2023	11	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
12	7	15	2023	12	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
13	7	15	2023	13	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
14	7	15	2023	14	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
15	7	15	2023	15	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
16	7	15	2023	16	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
17	7	15	2023	17	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
18	7	15	2023	18	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
19	7	15	2023	19	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
20	7	15	2023	20	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
21	7	15	2023	21	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
22	7	15	2023	22	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
23	7	15	2023	23	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
24	7	15	2023	24	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
25	7	15	2023	25	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
26	7	15	2023	26	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
27	7	15	2023	27	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
28	7	15	2023	28	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
29	7	15	2023	29	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
30	7	15	2023	30	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
31	7	15	2023	31	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
32	7	15	2023	32	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
33	7	15	2023	33	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
34	7	15	2023	34	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
35	7	15	2023	35	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
36	7	15	2023	36	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
37	7	15	2023	37	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
38	7	15	2023	38	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
39	7	15	2023	39	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
40	7	15	2023	40	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
41	7	15	2023	41	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
42	7	15	2023	42	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
43	7	15	2023	43	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
44	7	15	2023	44	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
45	7	15	2023	45	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
46	7	15	2023	46	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
47	7	15	2023	47	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
48	7	15	2023	48	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
49	7	15	2023	49	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
50	7	15	2023	50	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
51	7	15	2023	51	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
52	7	15	2023	52	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
53	7	15	2023	53	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
54	7	15	2023	54	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
55	7	15	2023	55	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
56	7	15	2023	56	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
57	7	15	2023	57	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
58	7	15	2023	58	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
59	7	15	2023	59	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
60	7	15	2023	60	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
61	7	15	2023	61	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
62	7	15	2023	62	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
63	7	15	2023	63	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
64	7	15	2023	64	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
65	7	15	2023	65	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
66	7	15	2023	66	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
67	7	15	2023	67	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
68	7	15	2023	68	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
69	7	15	2023	69	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
70	7	15	2023	70	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
71	7	15	2023	71	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
72	7	15	2023	72	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
73	7	15	2023	73	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
74	7	15	2023	74	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
75	7	15	2023	75	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
76	7	15	2023	76	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
77	7	15	2023	77	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
78	7	15	2023	78	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
79	7	15	2023	79	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
80	7	15	2023	80	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
81	7	15	2023	81	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
82	7	15	2023	82	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
83	7	15	2023	83	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
84	7	15	2023	84	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
85	7	15	2023	85	P	410	410	305	202	Teashtown	Hersted	TX	Hersted	TX	2627	FALSE 20-None	TX	Anatlio
86	7	15	2023	86	P	410	410	305	20									

6	9	39607	8/30/2003 5:13:00 PM	8/30/2003 5:00 PM	17	S	3213	3213	183	Teasdale	TX	Heard	Design Error	Overloading	Wind	07-Transformer Fuse	Det	2405	22	Purmer County	TX	Heard
2	23	36584	2/25/2003 12:20:00 AM	2/25/2003 3:32 PM	7	P	1253	1253	183	Teasdale	TX	Boyer	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	1512	905	Spartan	TX	Boyer
1	10	35862	1/10/2003 10:57:00 AM	1/10/2003 2:00 PM	7	S	151	151	183	Teasdale	TX	Boyer	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5200	96	Russell	TX	Boyer
6	25	40337	8/30/2003 1:15:00 AM	8/30/2003 1:15 AM	7	P	1316	1316	183	Teasdale	TX	Boyer	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5005	1834	Conway	TX	Boyer
5	14	39689	8/14/2003 2:12:00 PM	8/14/2003 5:00 PM	1	S	168	168	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	7178	859	McLean Rural	TX	Pampa
6	25	40335	8/30/2003 6:43:00 AM	8/30/2003 9:51 AM	1	P	27824	27824	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	859	McLean Rural	TX	Pampa
9	1	40495	8/10/2003 11:22:00 AM	8/10/2003 2:30 PM	4	P	752	752	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	149	Bowles	TX	Pampa
8	8	36344	8/6/2003 8:53:00 AM	8/6/2003 1:01 PM	4	P	3196	3196	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	40	Pratt	TX	Pampa
11	14	41729	1/14/2003 5:19:00 PM	1/14/2003 8:38 PM	2	S	371	371	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	622	Plumville South	TX	Pampa
2	24	36025	2/24/2003 6:23:00 PM	2/24/2003 9:30 PM	2	S	371	371	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	622	Plumville South	TX	Pampa
8	13	39688	8/13/2003 5:40:00 AM	8/13/2003 8:46 PM	9	P	31465	31465	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	622	Plumville South	TX	Pampa
7	7	40440	8/7/2003 8:55:00 AM	8/7/2003 1:01 PM	9	P	31465	31465	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	622	Plumville South	TX	Pampa
6	18	39690	8/18/2003 11:57:00 AM	8/18/2003 11:57 AM	1	S	166	166	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	525	Stanton	TX	Pampa
5	30	37776	5/30/2003 4:45:00 PM	5/30/2003 7:50 PM	1	S	930	930	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1559	Palmer North	TX	Pampa
9	9	40512	8/9/2003 2:23:00 PM	8/9/2003 5:28 PM	1	S	185	185	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	855	East Plant	TX	Pampa
6	13	38175	6/13/2003 9:25:00 PM	6/13/2003 12:20 AM	1	S	185	185	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1579	West Boyer	TX	Pampa
2	20	36592	6/20/2003 10:00:00 PM	6/20/2003 1:05 AM	1	S	1472	1472	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	361	Wardfield	TX	Pampa
9	21	40433	8/21/2003 11:53:00 AM	8/21/2003 10:28 AM	12	P	2208	2208	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1533	Kyrene	TX	Pampa
2	2	35984	2/2/2003 1:14:00 PM	2/2/2003 4:22 PM	10	P	472	472	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	955	Spartan	TX	Pampa
8	3	39665	8/3/2003 2:37:00 PM	8/3/2003 5:41 PM	15	S	2760	2760	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	851	Kyle	TX	Pampa
4	9	36441	4/9/2003 7:17:00 PM	4/9/2003 10:21 AM	56	S	2816	2816	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	485	Denver City East	TX	Pampa
8	30	40543	8/30/2003 2:12:00 PM	8/30/2003 5:15 AM	4	S	725	725	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1932	Drum	TX	Pampa
9	25	40754	8/25/2003 6:57:00 AM	8/25/2003 1:30 PM	10	P	1530	1530	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
4	1	36441	4/1/2003 4:17:00 PM	4/1/2003 7:20 PM	4	S	725	725	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
2	2	40440	8/2/2003 7:29:00 PM	8/2/2003 10:34 PM	9	S	1647	1647	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
11	11	41445	1/11/2003 4:29:00 PM	1/11/2003 7:35 PM	1	S	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
6	21	35837	8/21/2003 6:45:00 AM	8/21/2003 9:50 PM	1	P	264	264	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
10	30	41438	1/30/2003 12:30:00 PM	1/30/2003 4:38 PM	1	P	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
9	5	40522	8/5/2003 2:53:00 PM	8/5/2003 5:25 PM	2	S	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
5	13	37587	8/13/2003 1:14:00 AM	8/13/2003 4:38 PM	1	S	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
10	4	41418	1/4/2003 7:23:00 PM	1/4/2003 10:34 PM	1	S	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
7	15	35036	7/15/2003 11:30:00 PM	7/15/2003 4:38 PM	4	S	724	724	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
5	22	38181	7/22/2003 5:43:00 PM	7/22/2003 8:05 PM	53	P	9553	9553	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
7	31	35845	7/31/2003 10:29:00 AM	7/31/2003 1:30 PM	1	S	543	543	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
8	15	40425	8/15/2003 9:20:00 AM	8/15/2003 12:00 PM	1	S	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
5	19	37584	8/19/2003 12:09:00 PM	8/19/2003 3:08 PM	11	S	1860	1860	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
6	23	38813	8/23/2003 7:45:00 PM	8/23/2003 10:45 PM	8	S	1440	1440	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
1	1	55331	1/1/2003 13:00:00 PM	1/1/2003 6:00 PM	20	P	1575	1575	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
11	29	38818	8/29/2003 11:30:00 AM	8/29/2003 2:30 PM	6	S	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
4	19	36578	8/19/2003 12:40:00 AM	8/19/2003 3:45 AM	1	P	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
8	8	36019	8/8/2003 5:00:00 PM	8/8/2003 8:05 PM	1	P	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
7	8	39674	8/8/2003 4:15:00 PM	8/8/2003 7:15 PM	40	P	7200	7200	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
6	21	35856	7/21/2003 8:30:00 AM	7/21/2003 11:30 AM	21	P	3760	3760	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
11	29	41456	8/29/2003 3:00:00 PM	8/29/2003 6:00 PM	2	S	3600	3600	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
8	8	40525	8/8/2003 5:00:00 PM	8/8/2003 8:00 PM	2	S	3600	3600	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
7	21	35847	7/21/2003 11:20:00 PM	7/21/2003 4:20 PM	2	S	3600	3600	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
12	18	41458	8/18/2003 8:00:00 PM	8/18/2003 11:00 AM	1	S	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
8	30	40525	8/30/2003 5:00:00 PM	8/30/2003 8:00 AM	10	P	183	183	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
4	15	35843	8/15/2003 3:51:00 PM	8/15/2003 6:51 PM	4	S	716	716	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
10	21	35843	8/21/2003 3:51:00 PM	8/21/2003 6:51 PM	42	P	716	716	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
6	13	39675	8/13/2003 9:12:00 AM	8/13/2003 12:11 AM	1	P	179	179	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
12	13	41876	12/13/2003 9:10:00 AM	12/13/2003 12:09 PM	18	S	3222	3222	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
2	2	40415	8/2/2003 5:04:00 PM	8/2/2003 8:04 PM	407	P	24416	24416	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
8	22	40381	8/22/2003 1:03:00 PM	8/22/2003 4:00 PM	208	P	24416	24416	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
9	11	40443	8/11/2003 9:03:00 AM	8/11/2003 12:00 PM	1	S	177	177	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa
11	23	41458	8/23/2003 8:44:00 AM	8/23/2003 11:51 AM	16	S	2532	2532	183	Teasdale	TX	Pampa	Failure of Facilities	Company Facilities	Wind	07-Transformer Fuse	Det	5000	1524	Graves	TX	Pampa

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1	20	3730	12/20/2003 5:20 PM	4	S	352	352	55 h	Libbook	TX	Libbook	TX	Time Related	Time Related	07-Transformer Fuse	Dist	7275	FALSE 20-None	565 Windcock	TX	Libbook
5	15	3750	5/16/2003 10:43 PM	1	S	86	86	55 h	Plumtree	TX	Plumtree	TX	Time Related	Time Related	05-Circuit Open	Dist	7260	FALSE 20-None	1559 Plumtree North	TX	Plumtree
7	15	3800	7/15/2003 5:42:00 PM	1	P	1200	1200	55 h	Libbook	TX	Libbook	TX	Unknown	Unknown	07-Transformer Fuse	Dist	1624	FALSE 20-None	717 Dalton	TX	Libbook
4	17	3400	4/17/2003 11:03 AM	1	S	86	86	55 h	Seneca	TX	Seneca	TX	Unknown	Unknown	07-Transformer Fuse	Dist	5225	FALSE 20-None	537 Seneca	TX	Seneca
3	3	3630	3/25/2003 9:53:00 AM	1	P	87	87	55 h	Plumtree	TX	Plumtree	TX	Other	Other	05-Line Fuse	Dist	5035	FALSE 20-None	1458 Plumtree	TX	Plumtree
5	14	3730	5/14/2003 7:27:00 PM	3	S	251	251	55 h	Seneca	TX	Seneca	TX	Other	Other	07-Transformer Fuse	Dist	108	FALSE 20-None	363 Dalton	TX	Seneca
6	1	3750	4/1/2003 6:53 PM	13	S	1331	1331	55 h	Seneca	TX	Seneca	TX	Other	Other	09-Circuit Open	Dist	7074	FALSE 20-None	1458 Plumtree	TX	Seneca
4	18	3630	4/18/2003 12:08:00 AM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
12	9	4191	12/9/2003 3:15:00 PM	174	P	15338	15338	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
6	17	3850	6/17/2003 1:20:00 PM	1	P	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
5	23	3750	5/23/2003 8:45:00 AM	3	P	251	251	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
1	3	3840	6/3/2003 2:01:00 PM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
1	2	3840	10/2/2003 4:26:00 PM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
12	5564	10/2/2003 4:26:00 PM	1	S	87	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	2	3840	4/2/2003 1:42:00 PM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	58	3840	4/58/2003 7:23:00 AM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
6	19	3840	6/19/2003 8:45:00 AM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
11	18	4191	11/18/2003 4:41:00 AM	10	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
1	5	4191	1/5/2003 8:51 AM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
1	1	4191	1/1/2003 8:51 AM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	25	3840	4/25/2003 4:26:00 PM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	25	3840	4/25/2003 4:26:00 PM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	15	4230	9/15/2003 4:03:00 PM	1	S	87	87	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	27	4230	9/27/2003 7:54:00 PM	25	P	2680	2680	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	11	4271	9/11/2003 12:30:00 PM	52	P	4472	4472	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	15	4271	9/15/2003 3:47:00 PM	1	S	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
7	2	3816	7/2/2003 11:03 AM	1	S	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
7	13	3816	7/13/2003 10:10 PM	10	P	860	860	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	7	4648	9/7/2003 11:00 PM	1	S	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
12	22	4719	12/22/2003 1:56 PM	250	P	2680	2680	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	25	3840	4/25/2003 4:26:00 PM	1	P	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	2	4675	9/2/2003 4:32 PM	1	P	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
6	5	3757	6/5/2003 5:28:00 PM	1	S	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	7	4444	9/7/2003 9:58:00 PM	25	P	2150	2150	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
3	27	3634	3/27/2003 8:10 PM	17	S	344	344	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
3	27	3634	3/27/2003 8:10 PM	1	S	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	3	3647	3/3/2003 11:41 AM	1	P	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	3	3647	3/3/2003 11:41 AM	1	P	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
7	8	3905	7/8/2003 12:47:00 AM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
11	11	4196	11/11/2003 11:25 AM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
6	19	3448	6/19/2003 11:25:00 PM	6	S	510	510	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
10	16	4157	10/16/2003 8:35 PM	6	S	510	510	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
8	2	3850	8/2/2003 9:00:00 PM	75	P	420	420	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
8	2	3850	8/2/2003 9:00:00 PM	1	P	86	86	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	4	3763	4/4/2003 5:23:00 AM	2	S	170	170	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
8	30	4005	8/30/2003 3:30:00 PM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
5	31	3841	5/31/2003 4:03:00 PM	6	S	510	510	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
7	18	3648	7/18/2003 12:30:00 PM	1	P	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
1	16	3748	1/16/2003 11:40:00 AM	1	P	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
5	20	3742	5/20/2003 12:30:00 PM	658	P	5000	5000	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	1	3431	4/1/2003 4:35:00 PM	2	P	170	170	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
1	3	3582	3/3/2003 10:35:00 AM	2	P	170	170	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	23	3677	4/23/2003 7:23:00 AM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
4	23	3677	4/23/2003 7:23:00 AM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
5	4	3767	5/4/2003 5:40:00 AM	8	P	640	640	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
5	12	3742	5/12/2003 4:40:00 PM	1	P	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	5	4401	9/5/2003 1:30 PM	1	P	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
10	21	4195	10/21/2003 10:35:00 AM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
9	1	4607	9/1/2003 5:50 AM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
6	15	3813	6/15/2003 3:30:00 PM	1	S	85	85	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
8	5	3915	8/5/2003 1:25:00 PM	13	P	1082	1082	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
12	9	4195	12/9/2003 9:12:00 AM	1	S	84	84	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
10	22	4195	10/22/2003 9:45:00 AM	1	S	84	84	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
10	22	4195	10/22/2003 9:45:00 AM	1	S	84	84	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
10	28	4195	10/28/2003 2:30:00 PM	1	S	84	84	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
11	7	4195	11/7/2003 12:30:00 PM	1	S	84	84	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
8	22	4195	8/22/2003 9:21:00 AM	1	S	84	84	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	Seneca
6	7	4618	6/7/2003 4:01:00 PM	1	S	84	84	55 h	Seneca	TX	Seneca	TX	Other	Other	05-Line Fuse	Dist	1320	FALSE 20-None	1458 Plumtree	TX	

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Month	Day	ID	CIS-TR	TKN	TM	All Back In Service	Date	Time	No of Customers Impacted	CustMin	Duration	DVID	Cause of Incident	Cause Type	Trans	Dist	Trans Ckt	Nr	Int	Excl	By	Std	Dev
4	15	1E+05	4/15/2003	6:15 PM		4/16/2003	11:34 PM		1	317	1759	TexasSouth	Environmental	Wind	Trans		y84					TRUE	
4	15	1E+05	4/15/2003	6:38 PM		4/16/2003	11:24 AM		8	5256	1006	TexasSouth	Environmental	Lightning	Trans		z25					TRUE	
5	15	1E+05	5/15/2003	9:31 PM		5/16/2003	6:43 AM		1844	1E+06	552	TexasNorth	Environmental	Lightning	Trans		y92					FALSE	
7	7	1E+05	7/7/2003	2:55 PM		7/7/2003	11:35 PM		2415	91296	520	NewMexico	Line Failure	Conductor	Trans		Z05					FALSE	
5	15	1E+05	5/15/2003	6:01 PM		5/16/2003	4:16 AM		2894	1E+06	495	TexasNorth	Environmental	Lightning	Trans		y51					FALSE	
6	20	1E+05	6/20/2003	9:00 PM		6/21/2003	5:09 AM		390	188112	489	TexasSouth	Facilities	Other	Trans		y53					FALSE	
3	19	1E+05	3/19/2003	5:46 AM		3/19/2003	1:51 PM		1206	594476	485	TexasNorth	Facilities	Arrestor	Trans		T01					FALSE	
6	5	1E+05	6/5/2003	8:29 PM		6/6/2003	4:12 AM		705	74391	463	TexasSouth	Facilities	Other	Trans		Y79					FALSE	
6	30	1E+05	6/30/2003	3:12 AM		6/30/2003	9:26 AM		62	23188	374	NewMexico	Environmental	Lightning	Trans		z48					FALSE	
9	7	1E+05	9/7/2003	7:42 PM		9/8/2003	12:00 AM		2	396	258	TexasSouth	Environmental	Lightning	Trans		Z53					FALSE	
3	28	1E+05	3/28/2003	2:15 AM		3/28/2003	6:09 AM		52	12168	234	TexasSouth	Facilities	Equipment	Trans		Y77					FALSE	
6	23	1E+05	6/23/2003	7:22 PM		6/23/2003	10:58 PM		1743	113868	216	TexasSouth	Facilities	Other	Trans		Z26					FALSE	
5	15	1E+05	5/15/2003	8:15 PM		5/15/2003	11:41 PM		1210	89672	206	TexasNorth	Environmental	Lightning	Trans		y58					FALSE	
6	26	1E+05	6/26/2003	4:37 AM		6/26/2003	7:59 AM		705	81620	202	TexasSouth	Environmental	Lightning	Trans		y79					FALSE	
7	3	1E+05	7/3/2003	12:25 PM		7/3/2003	3:40 PM		84	16265	195	TexasSouth	Interference	Aircraft	Trans		y56					FALSE	
5	16	1E+05	5/16/2003	9:44 PM		5/17/2003	12:40 AM		670	22253	176	TexasNorth	Line Failure	Conductor	Trans		y58					FALSE	
6	16	1E+05	6/16/2003	3:05 PM		6/16/2003	5:28 PM		1954	275516	143	TexasNorth	Line Failure	Conductor	Trans		Z66					FALSE	
6	21	1E+05	6/21/2003	1:39 PM		6/21/2003	3:54 PM		691	93285	135	TexasSouth	Environmental	Wind	Trans		V95					FALSE	
5	19	1E+05	5/19/2003	4:45 PM		5/19/2003	6:57 PM		1	132	132	TexasSouth	Facilities	Disconnect	Trans		Z50					FALSE	
6	23	1E+05	6/23/2003	7:35 PM		6/23/2003	9:22 PM		1	107	107	TexasNorth	Environmental	Wind	Trans		Y52					FALSE	
4	19	1E+05	4/19/2003	2:28 PM		4/19/2003	3:55 PM		1845	160515	87	TexasNorth	Environmental	Wind	Trans		V92					FALSE	
8	29	1E+05	8/29/2003	9:46 PM		8/29/2003	11:09 PM		1	83	83	TexasNorth	Environmental	Lightning	Trans		v29					FALSE	
6	20	1E+05	6/20/2003	9:33 PM		6/20/2003	10:53 PM		2367	133161	80	TexasSouth	Facilities	Other	Trans		Y75					FALSE	
6	2	1E+05	6/2/2003	12:27 AM		6/2/2003	1:37 AM		136	9520	70	NewMexico	Interference	Animal	Trans		PTJN					FALSE	
4	28	1E+05	4/28/2003	8:49 PM		4/28/2003	9:55 PM		139	8954	66	TexasSouth	Environmental	Related	Trans		z60					FALSE	
11	22	1E+05	11/22/2003	3:58 PM		11/22/2003	3:58 PM		4160	230699	65	TexasSouth	Line Failure	Insulator	Trans		V41					FALSE	

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Methodology used to calculate the annual average SAIFI value for each interruption class.

- 1) All Sustained outages were included in each interruptions class.
- 2) Customer Interruption values from each record were summed up by each month of the year.
- 3) Customer Served values from the end of each month were used as the denominator in the monthly SAIFI calculations
- 4) The SAIFI value for each month was calculated
- 5) The SAIFI values for each month were summed and the resulting value was used as the annual SAIFI value.
- 6) The outage data was broken into the interruption classes by the following method.
 - A) Forced: All outages, exclusive of Major Events, that result from a component of the distribution system requiring to be taken out of service. These include all outages excluding cause code of "Planned Interruption".
 - B) Scheduled: Interruptions, exclusive of Major Events, that are caused by an intentional loss of power. These include all outages with a cause code of "Planned Interruption".
 - C) Outside Causes: Interruptions, exclusive of Major Events, that are caused outside of the distribution system, including Transmission
 - D) Major Events: Catastrophic events where there is a loss of power to more than 10% of customer base in a 24 hour period. and with all customers not restored in 24 hours.

7) Raw numbers used in calculations

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YE Total
Customers served	277573	277597	277820	278035	280253	281189	282043	282660	283220	283865	284247	284397	
Forced													
Cust Interruptions	4234	6765	7157	13496	14215	17826	6412	10496	10053	2020	7824	14202	114700
SAIFI	0.02	0.02	0.03	0.05	0.05	0.06	0.02	0.04	0.04	0.01	0.03	0.05	0.41
Scheduled													
Cust Interruptions	196	2	120	1575	115	653	183	1296	147	101	575	65	5028
SAIFI	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Outside Causes													
Cust Interruptions	2339	0	11711	4851	6620	11033	343	2370	264	3722	4160	0	47413
SAIFI	0.01	0.00	0.04	0.02	0.02	0.04	0.00	0.01	0.00	0.01	0.01	0.00	0.17
Major Events													
Cust Interruptions	0	0	0	0	0	0	0	0	0	0	0	0	0
SAIFI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Methodology used to calculate the annual average SAIDI value for each interruption class.

- 1) All Sustained outages were included in each interruptions class.
- 2) Customer Minute values from each record were summed up by each month of the year.
- 3) Customer Served values from the end of each month were used as the denominator in the monthly SAIDI calculations
- 4) The SAIDI value for each month was calculated
- 5) The SAIDI values for each month were summed and the resulting value was used as the annual SAIDI value.
- 6) The outage data was broken into the interruption classes by the following method.
 - A) Forced: All outages, exclusive of Major Events, that result from a component of the distribution system requiring to be taken out of service. These include all outages excluding cause code of "Planned Interruption".
 - B) Scheduled: Interruptions, exclusive of Major Events, that are caused by an intentional loss of power. These include all outages with a cause code of "Planned Interruption".
 - C) Outside Causes: Interruptions, exclusive of Major Events, that are caused outside of the distribution system, including Transmission
 - D) Major Events: Catastrophic events where there is a loss of power to more than 10% of customer base in a 24 hour period. and with all customers not restored in 24 hours.

7) Raw numbers used in calculations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YE Total
Customers served	277573	277597	277820	278035	280253	281189	282043	282660	283220	283865	284247	284397	
Forced													
Cust Interruptions	339570	337426	632668	1245008	1603382	1521142	480769	788348	816336	127096	500531	870535	9262811
SAIFI	1.22	1.22	2.28	4.48	5.72	5.41	1.70	2.79	2.88	0.45	1.76	3.06	32.97
Scheduled													
Cust Interruptions	5036	157	10605	44851	5144	15159	7563	28921	11013	5821	15194	2140	151604
SAIFI	0.02	0.00	0.04	0.16	0.02	0.05	0.03	0.10	0.04	0.02	0.05	0.01	0.54
Outside Causes													
Cust Interruptions	119289	0	942911	275072	2562515	982789	28956	71159	14954	89228	230699	0	5317572
SAIFI	0.43	0.00	3.39	0.99	9.14	3.50	0.10	0.25	0.05	0.31	0.81	0.00	18.98
Major Events													
Cust Interruptions	0	0	0	0	0	0	0	0	0	0	0	0	0
SAIFI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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