



Control Number: 29165



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PROJECT NO. 29165

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

**EL PASO ELECTRIC COMPANY'S  
RESPONSE TO STAFF'S REQUEST FOR ADDITIONAL  
INFORMATION FOR THE 2003 SERVICE QUALITY REPORT**

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**Service Quality Information Request**  
Project 29165 – 2003 Electric System Quality Report  
**El Paso Electric Company**  
Report Due: June 4, 2004

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

Please find attached El Paso Electric Company's ("EPE") records of all sustained interruptions divided into each interruption class for the months of April and October 2003. [See Attachment]

- 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)]**

For the 12-month period beginning January 1 and ending December 31, 2003, EPE's records indicate that its system did not experience a significant interruption as defined by Subst. R. §25.52(c)(5) and §25.52(e)(2). Additionally, EPE did not experience any interruptions that lasted more than 24 hours.

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

The table shown below provides the number of forced interruptions attributable to each cause shown on the 2003 Service Quality Report.

<b>Causes of Forced Interruptions</b>	<b>Total</b>	<b>Percentage</b>
People (Including cars and farm equip)	126	8%
Weather (Including Lightning)	254	15%
Animals and Birds	215	13%
Utility-owned Equipment	398	24%
Other	144	9%
Vegetation	228	14%
Unknown	242	15%

- 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.**

EPE calculates its annual SAIFI value for each interruption class in accordance with PUCT Subst. R. §25.52(c)(6)(A). EPE's annual SAIFI is calculated by summing the total number of customers interrupted for each event per interruption class and dividing by the total number of customers on the system. The mathematical equation used by EPE is shown below.

$$SAIFI = \frac{\sum \text{Total Number of Texas Customers Interrupted}}{\text{Total Number of Texas Customers Served}}$$

EPE keeps a complete record of sustained interruptions for all interruption classifications in accordance with PUCT Subst. R. §25.52(d). The data for the 12-month period beginning January 1 and ending December 31 of each year is used in EPE's calculation of SAIFI.

- 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.**

EPE calculates its annual SAIDI value for each interruption class in accordance with PUCT Subst. R. §25.52(c)(6)(B). EPE's annual SAIDI is calculated by summing the restoration time for each interruption event per interruption class times the number of customers interrupted for each of these events and dividing by the total number of customers on the system. The mathematical equation used by EPE is shown below.

$$SAIDI = \frac{\sum (\text{Texas Customer Interruption Durations}) * (\text{Texas Customers Interrupted})}{\text{Total Number of Texas Customers Served}}$$

EPE keeps a complete record of sustained interruptions for all interruption classifications in accordance with PUCT Subst. R. §25.52(d). The data for the 12-month period beginning January 1 and ending December 31 of each year is used in EPE's calculation of SAIDI.

- 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)]**

EPE calculated its system-wide SAIFI standard for 2003 in accordance with PUCT Subst. R. §25.52(f)(1)(A). The data used for each "reporting year" was the 12-month period beginning January 1 and ending December 31 of each year. Inclusive in this data were the Sustained Interruptions in EPE's Texas jurisdiction in the Forced Interruption Classification. The standard that EPE created was based on its own SAIFI index for the following reporting years: 1998, 1999 and 2000. The SAIFI standard for EPE is 0.3671 interruptions/year. This standard was determined by calculating the average SAIFI value over the three reporting periods.

The following illustrates the calculation of EPE's SAIFI Standard (Forced Interruptions).

$$SAIFI_{std} = \frac{(SAIFI_{98} + SAIFI_{99} + SAIFI_{00})}{3}$$

$$SAIFI_{std} = \frac{(0.4511 + 0.2730 + 0.3773)}{3} = 0.3671 \text{ interruptions/year}$$

EPE is required to maintain and operate its system so that the SAIFI value does not exceed the above system-wide SAIFI standard by more than 5.0% in accordance with § 25.52(f)(1)(A).

- 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)]**

EPE calculated its system-wide SAIDI standard for 2003 in accordance with PUCT Subst. R. §25.52(f)(1)(B). The data used for each “reporting year” was the 12-month period beginning January 1 and ending December 31 of each year. Inclusive in this data were the Sustained Interruptions in EPE’s Texas jurisdiction in the Forced Interruption Classification. The standard that EPE created was based on its own SAIDI index for the following reporting years: 1998, 1999 and 2000. The SAIDI standard for EPE is 35.52 minutes per interruption/year. This standard was determined by calculating the average SAIDI value over the three reporting periods.

The following illustrates the calculation of EPE’s SAIDI Standard (Forced Interruptions).

$$\text{SAIDI}_{\text{std}} = \frac{(\text{SAIDI}_{98} + \text{SAIDI}_{99} + \text{SAIDI}_{00})}{3}$$
$$\text{SAIDI}_{\text{std}} = \frac{(35.13 + 30.17 + 41.25)}{3} = 35.52 \text{ minutes per interruption/year}$$

EPE is required to maintain and operate its system so that the SAIDI value does not exceed the above system-wide SAIDI standard by more than 5.0% in accordance with § 25.52(f)(1)(B).

- 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).**

The following is a list of the feeders that did not meet the SAIFI requirement of Subst. R. §25.52(f)(2)(A). The feeders shown below have SAIFI values that were in the worst 10% of EPE’s feeders for two consecutive years.

2003 SAIFI Ranking	2002 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2003 SAIFI Value
3	5	Clint	11	1455.968	2.31
12	12	Socorro	10	1830	1.22
13	23	Vista	11	2737.304	1.2
16	17	Midway	1	588.068	1.14
17	7	Rio Grande	13	1022.544	1.13
18	13	Americas	10	1220.32	1.09
19	15	Sierra Blanca	20	328.224	1.06

The following is a list of the feeders that did not meet the SAIFI requirement of Subst. R. §25.52(f)(2)(A). The feeders shown below have SAIFI values that were in the worst 10% of EPE's feeders for two consecutive years.

2003 SAIDI Ranking	2002 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2003 SAIDI Value
5	13	Clint	11	1456	231.2
9	1	Horizon	10	645	127.4
16	19	Vista	11	2737	108.3
21	16	Thorn	12	2181	81.2

In response to the worst performing feeder lists, EPE has analyzed these feeders and has created recommendations for each to prevent these feeders from repeating on the SAIFI or SAIDI worst performing lists for a third consecutive year. To help clarify the discussions associated with the individual feeders below, some description of the terminology used might be helpful. The following discussion is intended for this purpose.

The effect of faults on the feeder reliability indices is dependent on the location of the fault. As an example, a bird causing a fault by bridging the gap from energized equipment to ground at the first structure from the source of a feeder (substation feeder breaker) has a much greater impact on the number of customers affected than the same type of fault occurring downstream from a sectionalizing device such as a line recloser located midway between the source and the end of a feeder. The first type of fault can cause the feeder breaker to open or lock-out, affecting all customers served from that feeder. The second type of fault, assuming uniform distribution of customers along the feeder, will result in half the number of customers affected. One fault like that described in the first type of fault will almost certainly cause the feeder to appear on the 10% worst SAIFI list while one fault as described in the second type of fault will probably not cause the feeder to appear on the 10% worst feeder list since only half of the customers on that feeder are affected.

Several of the feeder discussions below list breaker lock-outs as the reason for feeder repeat occurrences on the SAIDI and SAIFI list. Obviously, the feeder breaker lock-out is not the reason for the feeder reappearing on these lists. Sectionalizing devices such as feeder breakers and line reclosers are essential equipment intended to isolate faults so the operation of these devices protect equipment from failure and protect the public from contacting downed energized equipment. Outages described as “interruptions due to feeder breaker lock outs” are in actuality caused by faults on the feeder requiring the operation of the breaker to de-energize the fault.

The discussions below regarding several feeders describe the rural nature of the feeder as a contributing factor to the reliability statistics associated with that feeder. Rural feeders generally serve larger portions of EPE’s service territory than urban feeders. The customer density (customers per mile) on rural feeders is considerably lower than urban feeders. The resulting exposure due to the expanded territory that rural feeders serve subjects these feeders to a higher probability of faults and presents challenges to maintaining comparable reliability to those that serve urban areas. Maintaining SAIFI and SAIDI ratings for rural feeders comparable to urban feeders poses a considerable challenge for utilities. Rural feeders are subject to a higher SAIFI given that the number of line miles per customer tends to be higher (thus, more opportunities for physical failure of the line due to lightning, trees, car wrecks, etc.). Rural feeders are also subject to a higher SAIDI given that there will be greater distances for EPE repair crews to travel to address the line failure. Both SAIFI and SAIDI are further challenging for rural feeders given that the denominator in the equations (total number of customers served by the feeder) tends to be lower than for urban feeders.

EPE requests that the Commission consider these factors in assessing the performance of feeders across the state. With that explanation, EPE provides the following summary of the performance of each of its feeders that did not meet the requirements of Subst. R. § 25.52(f)(2)(A):

**Feeder: Clint-11**

Clint-11 is a semi-rural feeder that extends long distances with low customer density (estimated at 77 customers/mile). There are approximately 1455 customers on Clint-11 served by approximately 19 miles of backbone three-phase conductor. The predominant cause for Clint-11 being on this list is interruptions due to feeder breaker lock-outs. The probability of lock-outs is high because this feeder is split into three main branches. In order to reduce the probability of breaker lock-outs on Clint-11, EPE has fused single and/or three phase lateral takeoffs and plans to add sectionalizing devices on the three major feeder branches.

In summary, the reliability of the service to customers served from Clint-11 is a result of the rural nature of this feeder, which increases the exposure (long-length with low customer density) to elements that cause electrical faults such as birds, lightning, wind, and the configuration of the three feeder branches.

**Feeder: Socorro-10**

Socorro-10 is a semi-rural feeder that extends long distances with low customer density (estimated at 180 customers/mile). There are approximately 1830 customers on Socorro-10 served by approximately 10 miles of backbone three-phase conductor. The predominant cause for Socorro-10 being on this list is interruptions due to feeder breaker lock-outs. The probability of lock-outs is high because this feeder is split into two main branches. In order to reduce the probability of breaker lock-outs on Socorro-10, EPE plans to add sectionalizing devices on the two major feeder branches.

In summary, the reliability of the service to customers served from Socorro-10 is a result of the rural nature of this feeder, which increases the exposure (long-length with low customer density) to elements that cause electrical faults such as birds, lightning, wind, and the configuration of the two feeder branches.

**Feeder: Vista-11**

The predominant cause for Vista-11 being on this list is a feeder breaker lock-out both in 2002 and 2003. Without the breaker lock-out in 2003, its SAIFI would have been 0.28 (lower than EPE's system SAIFI) and its SAIDI would have been 50 minutes.

Vista-11 does not present a typical reason (e.g., age, configuration, length, or exposure) for being on the worst performing list. Therefore, being on this list for two consecutive years appears to be from statistical variation and not an inherent characteristic. EPE plans to improve reliability on Vista-11 through fuse coordination and the addition of fuses for better sectionalizing. If a breaker lock-out occurs again in 2004, EPE plans to add sectionalizing devices to reduce the risk of future breaker lock-outs.

In summary, Vista-11's repeat occurrence from 2002 to 2003 is from feeder breaker lock-outs apparently from statistical variation and not an identifiable reliability problem.

**Feeder: Midway-1**

The predominant cause for Midway-1 being one of EPE's 10% least reliable feeders is a feeder breaker lock-out in both 2002 and 2003. Without the feeder breaker lock-out in 2003 SAIFI would be approximately 0.20 and SAIDI would be 17 minutes (well under EPE's system SAIFI and SAIDI).

Midway-1 does not present a typical reason (e.g., age, configuration, length, or exposure) for being less reliable than EPE's other urban distribution feeders. Therefore, being on EPE's 10% least reliable feeder list for two consecutive years appears to be from statistical variation and not an inherent characteristic. EPE plans to improve reliability on Midway-1 by performing fuse coordination and adding sectionalizing fuses. If a breaker lockout occurs again in 2004, then EPE plans to add sectionalizing devices to reduce future breaker lock-outs.

In summary, Midway-1's repeat occurrence from 2002 to 2003 is from feeder breaker lock-outs apparently from statistical variation and not an identifiable reliability problem.



**Feeder: Rio Grande-13**

Rio Grande-13 experienced 25 outages in 2003 (disregarding 5 outages that were due to maintenance work). One of the outages occurred on the main trunk of the feeder, causing the feeder to lock-out. Unfortunately, this outage occurred just upstream of a recloser, resulting in a feeder breaker lock-out. The first recommendation for Rio Grande-13 is to add at least one recloser and perhaps some sectionalizing devices. The feeder is long and one of the older feeders in EPE's system. Rio Grande-13 serves, among other customers, the Willows, which is an upscale residential subdivision that seems to be experiencing transformer overloading. The transformers in the subdivision will be scrutinized for possible upgrading. Rio Grande-13 experienced one outage due to cable failure. The frequency of cable failures in this area does not appear to be endemic; however, EPE will closely monitor cable failures in this area and if necessary begin a cable replacement project to eliminate problematic cable systems.

A portion of the feeder runs through a section in the Upper Valley that has a lot of tall trees that grow near the lines, such as along Woodland Drive and Girl Scout Drive. Trees in the lines caused three outages in 2003. A map will be sent out to the tree trimming crews to indicate the problem areas to be trimmed. Towards the end of 2003 and in the beginning of 2004, an older portion of Rio Grande-13 was converted to STA-21. This should help reduce future outages on Rio Grande-13. Two of the outages, one being a transformer overload and the other a cutout failure, occurred in the area that was converted at the end of 2003. EPE plans to continue to offload Rio Grande-13 to surrounding feeders in the future. Lastly, there is a subdivision in Sunland Park that has very old equipment. Two outages occurred in this area. Maintenance and transformer upgrades planned for this area will reduce the probability of future outages.

**Feeder: Americas-10**

The predominant cause for Americas-10 being on EPE's 10% worst performing feeder list is a feeder breaker lock-out in both 2002 and 2003. The high probability of feeder breaker lock-outs is due to the feeder configuration of two main branches.

For many years, Americas-10 was considered a semi-rural distribution feeder. However, in recent years, population and load growth in this area have resulted in EPE building an additional substation two miles away. As load is transferred to the new substation, Americas-10's length will be cut in half, thereby, reducing the probability of feeder lock-outs.

In summary, Americas-10's repeat appearance on the 10% worst feeder list is a result of its configuration of two feeder branches. However, shortening feeder length by transferring load should improve reliability.

**Feeder: Sierra Blanca-20**

Ninety-four percent of the SAIFI value for Sierra Blanca-20 in 2002 was from one feeder breaker lockout. It is a rural feeder that extends long distances with very low customer density (estimated at 7.3 customers/mile). This feeder has approximately 328 customers with approximately 45 miles of backbone three-phase conductor. This feeder also

extends into relatively undeveloped desert regions with few trees, buildings, or hills. Therefore, it receives more lightning strikes than the urban areas of El Paso.

To improve reliability on Sierra Blanca-20, EPE has coordinated lateral fuses and added reclosers and sectionalizers.

Sierra Blanca-20 has reclosers at two locations and sectionalizers at two other locations to protect its four significant three-phase branches. In addition, three other sectionalizer locations and three other recloser locations help protect sub-branches and long laterals. In total, Sierra Blanca-20 has five sectionalizer and five recloser locations. Hence, despite its length, a feeder breaker lock-out has only occurred once in the last three years.

In summary, Sierra Blanca-20's reliability is a result of its rural location (long length with low customer density) and extensive exposure to lightning. Its four major branches have sectionalizing devices to reduce feeder breaker lock-outs.

**Feeder: Horizon-10**

Significant outage durations have been common on Horizon-10 due to the quantity of blown fuses during storms and the travel time required to replace them. It is a semi-rural feeder that extends long distances with low customer density (estimated at 22 customers/mile). This feeder has approximately 645 customers served by approximately 30 miles of backbone three-phase conductor. This feeder also extends into relatively undeveloped desert regions with few trees, buildings, or hills. Therefore, lightning storms adversely affect it more than distribution feeders in the El Paso urban areas.

To improve reliability on Horizon-10, EPE has coordinated lateral fuses, added reclosers and sectionalizers, and implemented fuse-saving at the feeder breaker. This resulted in this feeder's SAIDI dropping from 578 in 2002 to 127 in 2003 which EPE hopes to further improve in 2004.

Horizon-10 has reclosers at three locations and sectionalizers at another location to protect significant three-phase branches. Hence, despite its length, only one feeder breaker lock-out has occurred in the last four years.

In summary, Horizon-10's reliability is a result of its semi-rural nature (long length with low customer density), extensive exposure to lightning, and longer than average travel time to address outages.

**Feeder: Thorn-12**

Thorn-12 experienced 17 outages in 2003, not counting 11 outages that were for maintenance. Most of the maintenance outages were due to the upgrading of overloaded transformers. Five of the outages were due to cable failure, which occurred on three different risers. All three of the risers were listed in the EPE's 10% Worst Cable Replacement Program, and all three risers and corresponding cable have therefore been replaced as of May 2004. There are a few areas along El Gusto and La Cadena that require the installation of bird guards. On Los Robles and Escondido, there is a

padmount switchgear that had a fuse blow. A study will be conducted to make sure that the underground loops do not have too much load on any one segment. Lastly, Thorn-12 experienced an outage due to an undersized fuse. A coordination of the entire feeder will be conducted.

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 SAIDI and SAIFI system averages of all feeders for purposes of identifying the listed feeders, and provide the calculations.**

The following is a list of the feeders that did not meet the SAIFI requirement of Subst. R. §25.52(f)(2)(B). The feeders shown below have SAIFI values that are more than 300% greater than EPE's system average of all feeders during consecutive reporting years 2002-2003.

2003 SAIFI Ranking	2002 SAIFI Ranking	Substation Identification	Feeder Identification	Number of Customers	2003 SAIFI Value	2002 SAIFI Value
3	5	Clint	11	1455.968	2.31	2.41

EPE's 300 % greater than figures for SAIFI are:

$$\text{SAIFI}_{(03)300\%>} = 1.276$$

$$\text{SAIFI}_{(02)300\%>} = 1.5504$$

The calculation shown below illustrates how EPE arrived at this figure:

$$\text{SAIFI}_{(03)300\%>} = \text{SAIFI}_{03} + (\text{SAIFI}_{03} * 3.00) = 0.319 + (0.319 * 3.00) = 1.276$$

$$\text{SAIFI}_{(02)300\%>} = \text{SAIFI}_{02} + (\text{SAIFI}_{02} * 3.00) = 0.3876 + (0.3876 * 3.00) = 1.5504$$

**Feeder: Clint-11**

Clint-11 is a semi-rural feeder that extends long distances with low customer density (estimated at 77 customers/mile). There are approximately 1455 customers on Clint-11 served by approximately 19 miles of backbone three-phase conductor. The predominant cause for Clint-11 being on this list is interruptions due to feeder breaker lock-outs. The probability of lock-outs is high because this feeder is split into three main branches. In order to reduce the probability of breaker lock-outs on Clint-11, EPE has fused single and/or three phase lateral takeoffs and plans to add sectionalizing devices on the three major feeder branches.

In summary, the reliability of Clint-11 is a result of its semi-rural nature (long-length with low customer density), and the configuration of the three feeder branches.

The following is a list of the feeders that did not meet the SAIDI requirement of Subst. R. §25.52(f)(2)(B). The feeders shown below have SAIDI values that are more than 300% greater than EPE's system average of all feeders during consecutive reporting years 2002-2003.

2003 SAIDI Ranking	2002 SAIDI Ranking	Substation Identification	Feeder Identification	Number of Customers	2003 SAIDI Value	2002 SAIDI Value
5	13	Clint	11	1456	231.2	152.71
9	1	Horizon	10	645	127.4	577.91

EPE's 300 % greater than figures for SAIFI are:

$$SAIDI_{(03)300\%>} = 119.68$$

$$SAIDI_{(02)300\%>} = 136.96$$

The calculation shown below illustrates how EPE arrived at this figure:

$$SAIDI_{(03)300\%>} = SAIDI_{03} + (SAIDI_{03} * 3.00) = 29.92 + (29.92 * 3.00) = 119.68$$

$$SAIDI_{(02)300\%>} = SAIDI_{02} + (SAIDI_{02} * 3.00) = 34.24 + (34.24 * 3.00) = 136.96$$

**Feeder: Clint-11** (See Clint-11 section above)

**Feeder: Horizon-10**

Significant outage durations have been common on Horizon-10 due to the quantity of blown fuses during storms and the travel time required to replace them. It is a semi-rural feeder that extends long distances with low customer density (estimated at 22 customers/mile). This feeder has approximately 645 customers served by approximately 30 miles of backbone three-phase conductor. This feeder also extends into relatively undeveloped desert regions with few trees, buildings, or hills. Therefore, lightning storms adversely affect it more than distribution feeders in the El Paso urban areas.

To improve reliability on Horizon-10, EPE has coordinated lateral fuses, added reclosers and sectionalizers, and implemented fuse-saving at the feeder breaker. This resulted in this feeder's SAIDI dropping from 578 in 2002 to 127 in 2003 which EPE hopes to further improve in 2004.

Horizon-10 has reclosers at three locations and sectionalizers at another location to protect significant three-phase branches. Hence, despite its length, only one feeder breaker lock-out has occurred in the last four years.

In summary, Horizon-10's reliability is a result of its semi-rural nature (long length with low customer density), extensive exposure to lightning, and longer than average travel time to address outages.

El Paso Electric Company  
Texas Division  
April 2003 Interruptions  
Interruption Classification: FORCED

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
4/1/2003	8:18 AM	4/1/2003 001		RE FUSED 6AMP FUSE 10KVA TRANSFORMER	TRANSFORMER FUSE	AREA/FLOOD LIGHT	BIRD	NORMAL	ANTHONY	20	B	0.7	29.4	42.0
4/2/2003	8:19 AM	4/2/2003 004		13400 MONTANA-R EF 25KVA 8KV W/6A / CUSTOMER EQUIPMENT	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	CUSTOMER EQUIPMENT	NORMAL	CALIENTE	11	T	1	80	80.0
4/2/2003	12:00 PM	4/2/2003 012		13400 MONTANA: REF A 25KVA 8KV W/6A / CUST EQPMT	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	CUSTOMER EQUIPMENT	NORMAL	CALIENTE	11	T	1	42	42.0
4/2/2003	5:37 PM	4/2/2003 001		1805 GURSS: REF 10A UG RISER(RING TAIL CAT)	RISER FUSE	NO EPE EQUIPMENT FAILURE	ANIMAL/WILDLIFE	NORMAL	SUNSET	15	T	3	120	40.0
4/3/2003	5:31 PM	4/3/2003 002		10001 SOUTHSIDE. 200AMP FUSE. CAUSE CUST ADDING STUFF	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	OVERLOADED	NORMAL	SOCORRO	11	T	1	64	64.0
4/4/2003	5:49 AM	4/4/2003 003		1054 KIMBERLEY RE-FUSE A 15KVA 24KVX-FRMRW/6AMP & 25SPHSLAT.	LINE (LAT) FUSE TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL	SANTA TERESA	21	B	1.5	87	58.0
4/4/2003	6:02 AM	4/5/2003 004		FT HANCOCK PUMP. 6K TRANS ON 10KVA,CAUSE UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL	ALAMO	21	T	1	220	220.0
4/4/2003	10:18 AM	4/4/2003 004		584 CORA RE-MADE BURNT SERVICE & REPULLED IT.	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	FIRE	NORMAL	ASCARATE	10	T	1	70	70.0
4/4/2003	3:36 PM	4/4/2003 007		5487 STRAHAN. 2-15KVA & 1-25KVA TRANS FUSE BLOWN. CAUSE UNDR.	TRANSFORMER FUSE	OTHER OH EQUIPMENT	EPE EQUIPMENT	NORMAL	CANUTILLO	01	T	1	140	140.0
4/4/2003	3:49 PM	4/4/2003 002		3701 TAYLOR RE-MADE BROKEN JUMPER ON LOAD SIDE OF LAT.	BROKEN/BAD CONNECTION	OTHER OH EQUIPMENT	EPE EQUIPMENT	NORMAL	MORNINGSIDE	02	T	12	372	31.0
4/5/2003	6:12 PM	4/5/2003 005		3425 E. SAN ANTONIO REMADE CONN AT RISER OUT FOR 5MIN	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	DALLAS	11	T	1	5	5.0
4/5/2003	5:18 PM	4/5/2003 002		4424 EMORY. #4 COPPER DOWN BY TREE AND WIND	LINE (LAT) FUSE	BROKEN/BURNED PRIMARY	TREE RELATED	HIGH WIND	FRONTERA	01	T	15	4035	269.0
4/5/2003	4:19 PM	4/5/2003 001		8940 ROBERT REF 50AMP LAT CAUSE ROOF DEBRI	LINE (LAT) FUSE	BROKEN/BURNED SERVICE	FOREIGN OBJECT	HIGH WIND	LEO	02	T	50	3600	72.0
4/5/2003	10:29 PM	4/5/2003 003		8900 ORTEGA. BROKEN MID SPLICE. CAUSE UNKNOWN	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	YSLETA	01	T	1	34	34.0
4/6/2003	8:20 PM	4/7/2003 001		MONTWOOD BTWN TOM BOLT & MIKE HILL...BLEW N & S WHEN M ARCD	RISER FUSE	OTHER UG EQUIPMENT	EPE EQUIPMENT	NORMAL	SOL	10	T	50	1000	20.0
4/6/2003	11:25 PM	4/7/2003 002		MONTWOOD BTWN TOM BOLT & MIKE HILL...BAD CUTO AND TERMINATOR.	RISER FUSE	CUTO	EPE EQUIPMENT	NORMAL	SOL	10	T	30	6930	231.0
4/6/2003	10:56 PM	4/6/2003 001		3109 JEFFERSON...SPLICED OUT 8FT #4. BRKN NUTRL...EVE OF HOUSE	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	OTHER	NORMAL	SUMMIT	02	T	1	20	20.0
4/8/2003	2:51 AM	4/8/2003 001		590 JOE ANGEL.2 PHS ON 3 PHS 25AMP LAT BLOWN. FLOATER,WIND	LINE (LAT) FUSE	OTHER OH EQUIPMENT	WEATHER RELATED	HIGH WIND	MONTOYA	20	B	36	1944	54.0
4/8/2003	1:55 PM	4/8/2003 004		EL PASO & GLENWOOD RE-FUSED A 101AMP FUSE.	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL	AUSTIN	17	T	12	588	49.0
4/8/2003	2:44 PM	4/8/2003 007		9028 MOUNT RUSHMORE: SPLICED IN 4FT OF NO4 TRIPLEX / BURNT	OTHER TRANSFORMER FUSE	BROKEN/BURNED SERVICE	EPE EQUIPMENT	NORMAL	DIANA	03	T	1	87	87.0
4/8/2003	7:54 PM	4/8/2003 006		1154 YANN: REF A 25KVA 24KV W/6A / UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	FELIPE	20	T	7	420	60.0
4/8/2003	11:54 AM	4/11/2003 004		13000 HORIZON #4TRI PULLED OFF POLE REPLCD CLEVIS	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	EPE EQUIPMENT	NORMAL	HORIZON	10	T	1	66	66.0
4/10/2003	11:15 AM	4/10/2003 003		UN PAC RRR LINE OURAGE/BROKEN CROSSARM/RECLOSURE OPEN/SCOTT	LINE RECLOSER TRANSFORMER FUSE	BROKEN/BAD CROSSARM	CORROSION OR RUST	NORMAL	SIERRA BLANCA	20	T	1	206	206.0
4/10/2003	3:46 PM	4/10/2003 004		10405 CIRWOOD. 6K TRANS. CAUSE UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	VISTA	11	T	1	46	46.0
4/11/2003	9:21 AM	4/11/2003 001		13191 ALLEMANDE: REF 10KVA 8KV W/6A FUSE (BIRD)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL	CALIENTE	11	T	2	118	59.0

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Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
4/11/2003	10:17 AM	4/12/2003 002		718VAL VERDE REF N PHS W/80 SPLICED #4COPP PRI & CHGD CUTO	LINE (LAT) FUSE	BROKEN/BURNED PRIMARY	EPE EQUIPMENT	NORMAL SEASONAL	CLARDY	02	T	150	41390	275.9
4/11/2003	1:05 PM	4/12/2003 001		15600 MONTANA REPLCD 40FT CLASS 2 DEAD END	OTHER	POLE	FIRE	NORMAL SEASONAL	COYOTE	10	T	1	400	400.0
4/11/2003	7:05 PM	4/11/2003 002		3420 ABERDEEN: SPLICED OUT 8FT #4 TRIPLEX	CIRCUIT	BROKEN/BURNED NEUTRAL	CUSTOMER EQUIPMENT	NORMAL SEASONAL	SCOTSDALE	12	T	1	97	97.0
4/11/2003	10:07 PM	4/11/2003 003		105 & 107 W BROADWAY/25 KVA TRAN/15 AMP FUSE/WIND/PPSCOTT	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	VAN HORN	01	T	3	135	45.0
4/12/2003	1:00 AM	4/12/2003 003		AIRPORT & ISHA WAY: REPL 40FT CLASS 4 POLE	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	AUSTIN	12	T	1	40	40.0
4/12/2003	1:19 AM	1/19/2004 004		CLARDY 02, OPENED TO CHANGE MIDDLE PHASE	FEEDER BREAKER	BROKEN/BURNED PRIMARY	EPE EQUIPMENT	NORMAL SEASONAL	CLARDY	02	T	219	2409	11.0
4/12/2003	2:01 AM	1/19/2004 005		DROPPED CLA 2 AND CLA1 FOR REPAIRS	FEEDER BREAKER	BROKEN/BURNED PRIMARY	EPE EQUIPMENT	NORMAL SEASONAL	CLARDY	02	T	219	1095	5.0
4/12/2003	2:01 PM	2/5/2004 003		DROPPED CLA-1 AND CLA-2 FOR REPAIRS	FEEDER BREAKER	SUBSTATION BREAKER BROKEN/BURNED	EPE EQUIPMENT	NORMAL SEASONAL	CLARDY	01	T	588	2940	5.0
4/13/2003	10:03 AM	4/13/2003 002		5545 ALAMEDA REF 2-102 FUSES, SPLICED OUT #2 NEUTRAL	LINE (LAT) FUSE	PRIMARY	FOREIGN OBJECT	NORMAL SEASONAL	AUSTIN	17	T	12	792	66.0
4/13/2003	1:19 PM	4/13/2003 001		3516 MOREHEAD RE-FUSED A 25KVA 8KV X-FRMR W/A 6AMP FUSE.	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	DYER	13	T	8	408	51.0
4/13/2003	10:30 AM	4/13/2003 004		R.C. ELEM & ISL. TORNILLO RE-FUSED A 65AMP LATERAL.	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	FELIPE	20	T	2	98	49.0
4/13/2003	3:03 PM	4/13/2003 005		1955 TRAWOOD: BAD RUN OF CABLE ON 1855 TRAWOOD	LINE (LAT) FUSE	UG PRIMARY CABLE	OTHER	NORMAL SEASONAL	MANN	10	T	50	11325	226.5
4/13/2003	4:48 PM	4/13/2003 003		200 WALLINGTON RE-FUSED A 100KVA 8KV X-FRMR & A 25AMP LAT.	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	MESA	16	T	50	3150	63.0
4/14/2003	11:37 AM	4/14/2003 004		171 E BORDERLAND: REPLACED BURNT SERVICE MID SPAN/TREE REL	CIRCUIT	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL SEASONAL	MONTOYA	20	B	0.9	135	150.0
4/14/2003	5:46 PM	4/14/2003 001		209 WOOLRIDGE SPLICE OUT #4 COPPER & RE-FUSED A 50AMP LAT.	CIRCUIT	NO EPE EQUIPMENT FAILURE	CRANE/CONSTRUCTION EQUIP.	NORMAL SEASONAL	ASCARATE	04	T	25	1750	70.0
4/14/2003	5:10 PM	4/14/2003 006		660 MAUER: REPL 25KVA 8KV 120/240 / 100A CUTO / HIPOLITO & ENRIQUEZ CHANGED OUT BAD 50KVA PAD W/75KVA PAD	OTHER	TRANSFORMER (OH)	EPE EQUIPMENT	NORMAL SEASONAL	ASCARATE	11	T	8	1512	189.0
4/14/2003	1:27 PM	4/15/2003 001		16121 HORIZON: REPLACED BROKEN JUMPER AT CUTO	TRANSFORMER	UG/PMT TRANSFORMER	EPE EQUIPMENT	NORMAL SEASONAL	ASCARATE	10	T	30	5580	186.0
4/14/2003	5:13 PM	4/14/2003 005		10013 SUEZ:REF 25KVA 8KV W/6A / LIGHTENING	OTHER	CONNECTOR (OH)	UNKNOWN	NORMAL SEASONAL	HORIZON	10	T	1	135	135.0
4/14/2003	7:24 PM	4/14/2003 003		6300 TIGER EYE: REF 100A LATERAL M PHSE / LIGHTENING	TRANSFORMER FUSE	TRANSFORMER (OH)	LIGHTNING	LIGHTNING/T-STORM	SCOTSDALE	15	T	6	210	35.0
4/14/2003	9:10 PM	4/14/2003 007		1808TOM BOLT CLSD N. PHS @LARRY ZIEGLER/TOMMY AARON&ISOL PAD	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	LIGHTNING	LIGHTNING/T-STORM	SHEARMAN	12	T	30	1950	65.0
4/14/2003	10:52 PM	4/15/2003 002		12220 WINDERMERE: CHG OUT 150KVA 8KV XFORMER W/D 2295 DESERT AIR, RESPLICED WIRE AND REFUSED 6K POT	RISER FUSE	UG/PMT TRANSFORMER	EPE EQUIPMENT	NORMAL SEASONAL	SOL	10	T	30	4440	148.0
4/14/2003	2:00 PM	4/24/2003 004		13113 MARNIA REF 25AMP LAT	OTHER	UG/PMT TRANSFORMER	EPE EQUIPMENT	NORMAL SEASONAL	SOL	15	T	1	243	243.0
4/15/2003	3:49 AM	4/24/2003 012		1329 MCKELLIGON CANYON ROAD: REF 2-80 AMP LATS	TRANSFORMER FUSE	BROKEN/BURNED PRIMARY	WEATHER RELATED	HIGH WIND	CHAPARRAL	10	B	0.05	9.75	195.0
4/15/2003	8:19 AM	4/15/2003 003			LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	CLINT	11	T	3	270	90.0
4/15/2003	10:39 AM	4/15/2003 006			LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	LIGHTNING	LIGHTNING/T-STORM	DYER	13	T	3	246	82.0

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4/15/2003	8:30 AM	4/15/2003 004		3708 RIVERA RE-ROUTED #4 TRIPLEX KNOCKED DOWN BY TREE.	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL SEASONAL	LATTA	01	T	1	97	97.0
4/15/2003	2:00 PM	4/15/2003 005		8100 LOMITA RE-FUSED A 40AMP LATERAL.	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	LOMLAND	02	T	12	600	50.0
4/15/2003	5:40 PM	4/15/2003 002		MESA 16 LOCKED OUT. WIND STORM	FEEDER BREAKER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	MESA	16	T	1383	16596	12.0
4/15/2003	10:30 PM	4/15/2003 003		MESA 17 LOCKED OUT. WIND STORM	FEEDER BREAKER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	MESA	17	T	1432	17184	12.0
4/15/2003	4:08 PM	4/15/2003 019		3323 PIERCE, BLWON TRANS. CAUSE WEATHER	TRANSFORMER FUSE	BROKEN/BURNED SECONDARY	WEATHER RELATED	HIGH WIND	MORNINGSIDE	02	T	10	1200	120.0
4/15/2003	12:58 PM	5/6/2003 002		801 BLACKER. REF 50KVA W/25	TRANSFORMER FUSE	OTHER OH EQUIPMENT	WEATHER RELATED	HIGH WIND	SUNSET	02	T	20	1380	69.0
4/15/2003	12:58 PM	4/17/2003 006		11412 PHILIP: REP 1/9 CAP CABLE THAT WAS BLOWN DOWN	CIRCUIT OPEN(BROKEN WIRE)	OTHER OH EQUIPMENT	WEATHER RELATED	HIGH WIND	VALLEY	10	T	1	145	145.0
4/16/2003	7:42 AM	4/16/2003 007		250 LINDBERGH	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED NEUTRAL	TREE RELATED	NORMAL SEASONAL	THORN	13	B	0.95	131.1	138.0
4/16/2003	9:31 AM	4/19/2003 002		4907 PERSHING CHANGED OUT BAD 50KVA 4KV X-FORMER	TRANSFORMER FAILURE	TRANSFORMER (OH)	EPE EQUIPMENT	NORMAL SEASONAL	ALTURA	02	T	1	279	279.0
4/16/2003	6:56 AM	4/16/2003 004		4216 THOMASON: REPL SRVC & REMADE BROKEN HOT LEG	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED NEUTRAL	EPE EQUIPMENT	HIGH WIND	BEAUMONT	01	T	1	73	73.0
4/16/2003	9:11 AM	4/16/2003 002		14890 SULLIVAN RE-FUSED A 10KVA 8KV X-FORMER W/A 6AMP FUSE.	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	ANIMAL/WILDLIFE	NORMAL SEASONAL	COYOTE	10	T	1	144	144.0
4/16/2003	3:05 PM	4/16/2003 003		3912 JEFFERSON REF. A 25KVA 4KV X-FORMER W/A 10AMP FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED CUSTOMER	NORMAL SEASONAL	MORNINGSIDE	01	T	8	464	58.0
4/16/2003	1:20 AM	4/18/2003 006		6869ND RESET 75KVA CSP PD MT ELECTRICIAN CAUSED IT TO TRIP	TRANSFORMER BROKEN/BAD CONNECTION	UGPMT TRANSFORMER NO EPE EQUIPMENT FAILURE	EQUIPMENT FLOATER/LOOSE WIRE	HIGH WIND	THORN	12	T	30	1230	41.0
4/17/2003	1:33 PM	4/17/2003 023		9504 RALEIGH, BROKEN JUMPER ON TRAN, CAUSE WEATHER	BROKEN/BAD CONNECTION	NO EPE EQUIPMENT FAILURE	CRANE/CONSTRUCTION EQUIP.	NORMAL SEASONAL	TOBIN	01	T	1	105	105.0
4/17/2003	8:24 PM	4/17/2003 016		1800 GEORGE DIETER: REF 40A LATERAL (CONST. DIG IN)	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	VISTA	15	T	20	820	41.0
4/18/2003	6:25 AM	4/18/2003 007		604 WESTVIEW: REF 37KVA W/6A FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	CROMO	12	T	8	376	47.0
4/18/2003	8:50 AM	4/18/2003 015		ST. VRAIN & PAISANO, TRANS FUSE, CAUSE CAR ACCIDENT	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL SEASONAL	OCTAVIA	01	T	1	38	38.0
4/18/2003	4:05 PM	4/18/2003 008		10104 SINGAPORE: SPLICED OUT 20FT #4 TRIPLEX (TREE)	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL SEASONAL	SCOTSDALE	15	T	1	92	92.0
4/21/2003	12:37 PM	4/21/2003 003		6419 PIZARRO: SPLICED IN 2FT OF NO.2 ACSR / TREE RELATED	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL SEASONAL	RIO GRANDE	15	T	1	24	24.0
4/21/2003	11:32 AM	4/22/2003 003		216 HERMOSA SPLICED #2 ACSR AND REPULED IT.	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED NEUTRAL	CORROSION OR RUST	NORMAL SEASONAL	RIO GRANDE	15	T	1	187	187.0
4/22/2003	9:38 AM	4/22/2003 002		500 TALBOT C17 FOUND SIX BAD RUNS OF CABLE. SEE REMARKS.	RISER FUSE	UG PRIMARY CABLE	UG CABLE FAILURE	NORMAL SEASONAL	MONTOYA	21	B	42.5	5780	136.0
4/22/2003	11:05 AM	4/22/2003 006		100 SCHOOL CHG OUT BAD CONN. @ HOT CLAMPS ON PRIMARY.	BROKEN/BAD CONNECTION	OTHER OH EQUIPMENT FAILURE	EPE EQUIPMENT	NORMAL SEASONAL	ALAMO	21	T	1	83	83.0
4/23/2003	11:59 AM	4/28/2003 001		RE SET BREAKER ON CSP TRANSFORMER	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	ANTHONY	20	B	1.4	28	20.0
4/23/2003	2:00 PM	4/23/2003 027		745 DAHLIA 25AMP LAT. FELL OPEN HE CLOSED IT BACK & STAYED.	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	THORN	13	B	14.25	555.75	39.0

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4/23/2003	6:11 PM	4/27/2003 006		6026 TROWBRIDGE REPLACED CUTO & LEAD WIRE, LEADS BURNING UP	OTHER TRANSFORMER	BROKEN/BURNED SECONDARY	WEATHER RELATED	HIGH WIND	AUSTIN	04	T	18	1620	90.0
4/23/2003	6:56 PM	4/23/2003 017		BEHIND 9216 VICKSBURG; REF 25KVA W/15A FUSE	FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL SEASONAL	DIANA	01	T	6	270	45.0
4/23/2003	3:35 PM	4/23/2003 026		9663 BLUE WING INSTL NEW CUTO REMADE LEADS & UPGRODED TO80AMP	CIRCUIT OPEN(BROKEN WIRE)	OTHER OH EQUIPMENT	EPE EQUIPMENT	NORMAL SEASONAL	TOBIN	02	T	4	792	198.0
4/24/2003	7:00 AM	5/8/2003 006		308 HERMOSA, BKN LEG ON TRANS, CAUSE UNKNOWN	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	UNKNOWN	NORMAL SEASONAL	CHAPARRAL	10	B	0.05	5.6	112.0
4/24/2003	9:02 AM	4/24/2003 001		3525 WYOMING; BROKEN JUMPER ON 50KVA X-FOR 1104 AVALON; CHG OUT 2-CUTOS 7 ARRESTER (SEE REMKS)	TRANSFORMER FUSE	CONNECTOR (OH)	EPE EQUIPMENT	NORMAL SEASONAL	AUSTIN	12	T	10	360	36.0
4/24/2003	12:15 PM	4/24/2003 007			NOTHING	CUTO	OTHER	NORMAL SEASONAL	CIELO	01	T	1	186	186.0
4/24/2003	11:23 AM	4/24/2003 009		6800 MARKET, 140 LAT FUSE, CAUSE VEHICLE HT POLE	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	COPPER	10	T	1	54	54.0
4/24/2003	2:42 PM	4/24/2003 002		7202 ADELIN; REF 10KVA	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	FOREIGN OBJECT	NORMAL SEASONAL	COYOTE	10	T	1	107	107.0
4/24/2003	3:47 PM	4/24/2003 005		3403 FRUTAS; RE-ROUTED SRVC AWAY FROM TREE	NOTHING	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL SEASONAL	LATTA	01	T	1	79	79.0
4/25/2003	4:40 PM	4/30/2003 002		3633 ALAMEDA; POLE ON FIRE & OPENED AUST 10-8	FEEDER BREAKER	CONNECTOR (OH)	EPE EQUIPMENT	NORMAL SEASONAL	AUSTIN	10	T	1500	249000	166.0
4/25/2003	10:46 PM	4/25/2003 003		5013 VISTA DEL MONTE, PRIMARY DOWN, CAUSE TREE BRANCH	LINE (LAT) FUSE	BROKEN/BURNED PRIMARY	TREE RELATED	NORMAL SEASONAL	MULBERRY	02	T	5	810	162.0
4/25/2003	4:07 PM	4/25/2003 004		910 S. STANTON SPLICED OUT #4 TRIPLEX CUST OUT 25MIN	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL SEASONAL	SANTA FE	11	T	1	25	25.0
4/25/2003	2:54 PM	4/26/2003 001		508 RIVAS CHANGED OUT BURNT POLE W/25KVA 4KV X-FORMER	OTHER	NO EPE EQUIPMENT FAILURE	FIRE	NORMAL SEASONAL	VAN HORN	01	T	6	2292	382.0
4/26/2003	7:05 AM	4/26/2003 005		620 WOODLAND REF 10AMP LAT THAT FEEDS 15KVA 8KV X-FORMER	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	THORN	13	B	0.95	75.05	79.0
4/26/2003	7:19 AM	4/26/2003 004		8221 CARPENTER, 10AMP FUSE, CAUSE FORIEGN OBJECT	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	FOREIGN OBJECT	NORMAL SEASONAL	FRESNO	01	T	2	94	47.0
4/26/2003	11:56 AM	4/27/2003 001		3500SUN BOWL S E OF MISS SUB ON MESA13 REMADE BURNT JUMPER	FEEDER BREAKER	BROKEN/BURNED PRIMARY	EPE EQUIPMENT	NORMAL SEASONAL	MESSA	13	T	1477	13293	9.0
4/26/2003	8:42 PM	4/26/2003 002		5340 BASTILLE, 40K LAT, CAUSE TREES	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL SEASONAL	MILAGRO	14	T	15	1755	117.0
4/26/2003	3:48 PM	4/26/2003 003		5321 JULIANDRA, 6KTRANS, CAUSE TREES	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL SEASONAL	MILAGRO	14	T	4	488	122.0
4/27/2003	1:55 PM	4/27/2003 009		768 SANDSTONE REF 10KVA X-FORMER WITH 10AMP CAUSE UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	CHAPARRAL	10	B	0.2	24.8	124.0
4/27/2003	8:35 AM	4/27/2003 005		9722-9732 VALLARTA BAD RUN OF CABLE REP. 270FT OF UFD #2JCN.	RISER FUSE	UG PRIMARY CABLE FAILURE	CORROSION OR RUST	NORMAL SEASONAL	AMERICAS	11	T	20	8280	414.0
4/27/2003	8:15 PM	4/27/2003 004		8925 ECLIPSE RE-FUSE 15AMP RISER MIDDLE PHASE ON THREE PHASE	RISER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	LEO	01	T	2	110	55.0
4/28/2003	11:07 AM	4/28/2003 002		5228 CAROUSEL; REF 65 AMP LAT	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	CROMO	11	T	50	1650	33.0
4/28/2003	11:20 AM	4/28/2003 010		453 HORIZON; CHANGED OUT BOTTOM JUMPER / 20 MIN OUTAGE	BROKENBAD CONNECTION	OTHER OH EQUIPMENT	EPE EQUIPMENT	NORMAL SEASONAL	HORIZON	10	T	15	300	20.0
4/28/2003	9:16 PM	4/28/2003 004		6567 AZTEC; REPLACE SERVICE SLEEVE / TIP'D	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	EPE EQUIPMENT	NORMAL SEASONAL	VISTA	12	T	1	10	10.0
4/29/2003	2:52 AM	4/30/2003 001		8805 DESERT STRAIGHTENED U/G RISER POLE REPULLED GUY WIRES	RISER FUSE	POLE	VEHICLE	NORMAL SEASONAL	ANTHONY	20	B	0.7	210.7	301.0

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Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
4/29/2003	8:59 PM	4/29/2003.002		405 QUERETARO: BAD PRIMARY CABLE & BAD 37.5 KVA	LINE (LAT) FUSE CIRCUIT OPEN(BROKEN WIRE)	UG PRIMARY CABLE	FIRE	NORMAL SEASONAL	THORN	12	T	50	11100	222.0
4/30/2003	3:32 PM	5/1/2003.006		6929 4TH SFC D, BROKEN SERVICE, CAUSE TREES 423 CADWALLADER, 80K LAT & 15K TRANS, CAUSE BALLOON IN TRANS	LINE (LAT) FUSE	BROKEN/BURNED SERVICE NO EPE EQUIPMENT FAILURE	TREE RELATED FOREIGN OBJECT	NORMAL SEASONAL NORMAL SEASONAL	CANUTILLO MIDWAY	01 01	T T	1 20	203 1740	203.0 87.0

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El Paso Electric Company  
Texas Division  
April 2003 Interruptions  
Interruption Classification: Major Events

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust.-Minutes	Duration (minutes)
4/15/2003	12:58 PM	4/17/2003 014		MONTROYA & MEADOWLARK: REF 101CS FUSE CHAP AREA 40FT CLASSA POLE DWN W/10KVA X-F	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	THORN	13	B	47.5	14107.5	297
4/15/2003	11:33 AM	4/23/2003 001		OPND RECL 10-4	OTHER	POLE	WEATHER RELATED	HIGH WIND	CHAPARRAL	10	B	25	4600	184
4/15/2003	12:15 PM	4/16/2003 001		MESA 18 LOCKED OUT, WIND STORM	FEEDER BREAKER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	MESA	18	T	652	7172	11
4/15/2003	1:41 PM	4/17/2003 001		564 CHULA VISTA CLEARED TREE FRM X-F REF 25KVA W/6AMP	TRANSFORMER	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	ASCARATE	11	T	8	288	36
4/15/2003	12:59 PM	4/17/2003 002		1113 DOYLE TRIMMED TREE REF 25KVA X-F WITH 15AMP	TRANSFORMER	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	LOMALAND	01	T	10	520	52
4/15/2003	5:00 PM	4/17/2003 003		DIYER BETWN HARRISON & VAN BUREN REF 2-80AMP LAT	LINE (LAT) FUSE	CUTOUT	WEATHER RELATED	HIGH WIND	MORNINGSIDE	01	T	75	2475	33
4/15/2003	2:47 PM	4/17/2003 004		5012 JOE HERRERA BEHIND 5008 JOE HERRERA REF 25KVA W/15AMP	TRANSFORMER	CUTOUT	WEATHER RELATED	HIGH WIND	TOBIN	02	T	8	320	40
4/15/2003	1:28 PM	4/17/2003 005		14523 CASSIDY: REP BURNED CUTOUT & BROKEN JUMPER	OPEN(BROKEN WIRE)	CUTOUT	WEATHER RELATED	HIGH WIND	COYOTE	10	T	1	104	104
4/15/2003	1:35 PM	4/17/2003 007		922 MCKELLIGON: BLOWN ARRESTOR ON 50 KVA	TRANSFORMER	TRANSFORMER	WEATHER RELATED	HIGH WIND	MISSION	02	T	20	4340	217
4/15/2003	5:28 PM	4/17/2003 008		3707 FILLMORE: REF 25KVA 4KV - WIND	TRANSFORMER	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	MORNINGSIDE	02	T	30	2730	91
4/15/2003	1:19 PM	4/17/2003 009		3815 FILLMORE: REF 25KVA 4KV - WIND	TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	MORNINGSIDE	02	T	20	220	11
4/15/2003	2:52 PM	4/17/2003 010		MORNINGSIDE 02 LOCKED OUT-POLES DOWN ON SACRAMENTO	FEEDER BREAKER	POLE	WEATHER RELATED	HIGH WIND	MORNINGSIDE	02	T	311	41052	132
4/15/2003	2:01 PM	4/17/2003 011		2900 JACKSON: REPAIRED BROKEN TOP SIDE JUMPER	BROKEN/BAD CONNECTION	CONNECTOR (OH)	WEATHER RELATED	HIGH WIND	MORNINGSIDE	02	T	6	1680	280
4/15/2003	1:27 PM	4/17/2003 012		7809 VERONA: REPAIRED BROKEN JUMPER	OPEN(BROKEN WIRE)	CONNECTOR (OH)	WEATHER RELATED	HIGH WIND	HACIENDA	01	T	10	2270	227
4/15/2003	1:26 PM	4/17/2003 013		7611 PARRAL: REPAIRED TWO SERVICE LEADS	OPEN(BROKEN WIRE)	OTHER OH EQUIPMENT	WEATHER RELATED	LIGHTNING-STORM	HACIENDA	02	T	10	3320	332
4/15/2003	1:18 PM	4/17/2003 015		209 THUNDERBIRD: REF 15KVA - WIND & TREES	TRANSFORMER	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	CROMO	15	T	20	5780	289
4/15/2003	5:28 PM	4/17/2003 017		12 HALF MOON & 7500 NORTH LOOP: PRIMARY & SEC DOWN	TRANSFORMER	BROKEN/BURNED PRIMARY	TREE RELATED	HIGH WIND	HACIENDA	01	T	10	2300	230
4/15/2003	2:26 PM	4/17/2003 018		3120 POLK: REF 25KVA XFORMER W/15A (WIND STORM)	TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	SUMMIT	01	T	10	120	12
4/15/2003	12:46 PM	4/17/2003 020		BEHIND 420 HUERTA: ERF 25KVA W/15A (WIND STORM)	TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	PARKDALE	01	T	10	1240	124
4/15/2003	12:38 PM	4/17/2003 021		BEHIND 305 BALBOA: REF 25KVA W/15A (WIND STORM)	TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	CORONADO	01	T	8	568	71
4/15/2003	11:10 AM	4/17/2003 022		105 ESPANA: REF 37KVA W/25A FUSE ( WIND STORM)	TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	CORONADO	01	T	10	460	46
4/15/2003	1:35 PM	4/18/2003 001		9522 CHARLESTON REF 50KVA X-FORMER WITH 25AMP STAYED	TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	TOBIN	01	T	12	1320	110
4/15/2003	1:00 PM	4/18/2003 002		5509 FAIBANKS TREE TORE DOWN SERVICE REROUTED (HIGH WINDS)	OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	HIGH WIND	MILAGRO	17	T	1	289	289
4/15/2003	4:04 PM	4/18/2003 003		5118 TREW CLEARED TREE & REF 15KVA X-F W/15AMP (HIGH WINDS)	TRANSFORMER	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	GRACE	01	T	7	511	73
4/15/2003	2:12 PM	4/18/2003 004		3617 THOMASON REF 10KVA X-FORMER WITH 6AMP (HIGH WINDS)	TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	MORNINGSIDE	02	T	3	240	80

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**EI Paso Electric Company**  
 Texas Division  
 April 2003 Interruptions  
 Interruption Classification: Major Events

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
4/15/2003	1:03 PM	4/19/2003 009		3215 POLK: REF 25KVA 4KV X-FORMER W/15A (WIND STORM)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	SUMMIT	01	T	8	1560	195
4/15/2003	3:45 PM	4/19/2003 010		BEHIND 171 EDITH: REF 100A LAT/M PHASE..WIND STORM	LINE (LAT) FUSE TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	ASCARATE	02	T	40	7160	179
4/15/2003	4:56 PM	4/19/2003 011		730 KERBEY: REF 50KVA W/25A FUSE (WIND STORM)	TRANSFORMER FUSE	OTHER OH EQUIPMENT	WEATHER RELATED	HIGH WIND	SUNSET	02	T	20	1840	92
4/15/2003	6:21 PM	4/19/2003 012		BEHIND 4224 PARKHILL: REF 25KVA W/15A (WIND STORM)	TRANSFORMER FUSE	GUY WIRE / ANCHOR	CORROSION OR RUST	HIGH WIND	KEMP	01	T	3	747	249
4/15/2003	12:28 PM	4/19/2003 013		7400 MOJVAE: REF 50KVA W/15A FUSE (WIND STORM)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	RANCHLAND	01	T	12	576	48
4/15/2003	10:50 AM	4/19/2003 014		BEHIND 9108 MT SAN BERDOU: REF 25A LATERAL (WIND STORM)	LINE (LAT) FUSE TRANSFORMER	CUTOUT	WEATHER RELATED	HIGH WIND	TOBIN	02	T	20	720	36
4/15/2003	8:00 PM	4/19/2003 016		4911 BLUE RIDGE, 15K TRANS, CAUSE CHAIN IN LINE, STORM	TRANSFORMER FUSE	CUTOUT	FOREIGN OBJECT	HIGH WIND	DIANA	03	T	6	876	146
4/15/2003	1:43 PM	4/19/2003 017		2468MCKELLIGON CANYON REF M&S PHS 80AMP LAT REPLCD BRNT CUTO	LINE (LAT) FUSE CIRCUIT	CUTOUT	LIGHTNING/STORM		DYER	13	T	3	327	109
4/15/2003	1:14 PM	4/19/2003 018		3628 FLORY RE-RAN #4 TRIPLEX (HIGH WINDS)	OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	MORNINGSIDE	02	T	1	221	221
4/15/2003	2:15 PM	4/19/2003 020		3716 FLORY SPLICED 6FT OF #2ACSR & REF 100AMP LAT	LINE (LAT) FUSE CIRCUIT	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	BEAUMONT	01	T	30	11730	391
4/15/2003	2:05 PM	4/19/2003 021		10975 ALAMEDA SPLICED OUT BURNT #4 TRIPLEX	OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	SOCORRO	10	T	1	150	150
4/15/2003	2:37 PM	4/19/2003 001		3807 TYLER REFUSED 25KVA X-FORMER WITH 15AMP (HIGH WINDS)	TRANSFORMER FUSE	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	MORNINGSIDE	02	T	12	1704	142
4/15/2003	3:49 PM	4/19/2003 003		3904 SUNRISE REMADE CONNECTIONS AT POLE	CIRCUIT OPEN(BROKEN WIRE)	REMADE CONNECTION(S)	WEATHER RELATED	HIGH WIND	LEO	01	T	1	492	492
4/15/2003	1:10 PM	4/19/2003 004		8008BRAZIL BEHIND.829 CHILE REF 25AMP LAT	LINE (LAT) FUSE TRANSFORMER	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	AUSTIN	02	T	50	13800	276
4/15/2003	2:58 PM	4/19/2003 006		1100ST JOHNS@1033 OLSON REF 37.5KVA 4KV X-FORMER WITH 15AMP	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	AUSTIN	02	T	16	6512	407
4/15/2003	12:20 PM	4/19/2003 007		5608 WALDORF REFUSED 65AMP LAT (HIGH WINDS)	LINE (LAT) FUSE TRANSFORMER	CUTOUT	WEATHER RELATED	HIGH WIND	SHEARMAN	10	T	55	25190	458
4/15/2003	2:47 PM	4/19/2003 008		9136 DIANA: REF 25KVA 4KV X-FORMER W/15A (WIND STORM)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	DIANA	01	T	8	488	61
4/15/2003	3:01 PM	4/19/2003 009		BEHIND 1499 LEE TREVINO: REF 2-101 LATERAL FUSES	LINE (LAT) FUSE TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	SOL	11	T	10	1070	107
4/15/2003	5:14 PM	4/19/2003 010		9916 SAIGON REF. A 25KVA 8KV X-FORMER W/A 10AMP FUSE.	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	SOL	15	T	8	448	56
4/15/2003	2:02 PM	4/19/2003 011		719 VAL VERDE: #4 TRIPLEX SRVC TORN DWN BY TREE LIMB	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	HIGH WIND	CLARDY	02	T	2	650	325
4/15/2003	12:56 PM	4/19/2003 012		15501 PEGGY HOPKINS REF. A 37.5KVA 8KV X-FORMER W/A 10AMP.	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	COYOTE	10	T	12	2496	208
4/15/2003	6:52 PM	4/19/2003 013		2310 PITTSBURG: SRVC TORN DOWN BY TREE	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	HIGH WIND	DYER	12	T	1	288	288
4/15/2003	1:39 PM	4/19/2003 014		1017 MAGOFFIN: REF 25KVA 8KV X-FORMER W/6A (WIND STORM)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	DALLAS	16	T	6	870	145
4/15/2003	4:06 PM	4/19/2003 015		1011 FATHER RAHM RE-FUSED A 80AMP LATERAL WEST PHASE.	LINE (LAT) FUSE TRANSFORMER	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	SANTA FE	11	T	25	13000	520
4/15/2003	5:15 PM	4/19/2003 016		9105 RALLIEGH REF. A 50KVA 4KV X-FORMER W/A 50AMP FUSE.	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	TOBIN	02	T	8	2544	318

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**EI Paso Electric Company**  
 Texas Division  
 April 2003 Interruptions  
 Interruption Classification: Major Events

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
4/15/2003	4:38 PM	4/19/2003 017		9814 LILLY: REF 80A LAT/BAD CABLE @ 9857 TO 9875 LILLY	LINE (LAT) FUSE CIRCUIT	UG PRIMARY CABLE	WEATHER RELATED	HIGH WIND	AMERICAS	11	T	50	7900	158
4/15/2003	6:07 PM	4/19/2003 018		8717 OLD COUNTY REPLACE 60FT OF #4 TRIPLEX.	OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	YSLETA	01	T	1	203	203
4/15/2003	9:30 PM	4/19/2003 019		1008 ATWOOD: REF 15KAV 4KV XFORMER W/10A (WIND STORM)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	LOMALLAND	01	T	5	740	148
4/15/2003	8:28 AM	4/19/2003 020		919 KERBEY: REF 25KVA 4KV XFORMER W/15A (WIND STORM)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	SUNSET	05	T	5	100	20
4/15/2003	1:40 PM	4/22/2003 001		17887 ISL TORNILLO RD: REF 10KVA -- TREES & WIND	TRANSFORMER FUSE	BROKEN/BURNED SECONDARY	TREE RELATED	HIGH WIND	FELIPE	20	T	3	228	76
4/16/2003	2:46 PM	4/17/2003 019		1198 ADA: REF 50A LATERAL	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	CRANE/CONSTRUCTION ON EQUIP.	HIGH WIND	SANTA TERESA	21	B	0.6	62.4	104
4/16/2003	3:46 AM	4/16/2003 009		142 TASSIE: MAINT OUTAGE OPEN CUTO TO CLEAR TREE FROM O.W.	BROKEN/BAD CONNECTION	BROKEN/BURNED SECONDARY	TREE RELATED	NORMAL SEASONAL	SOCORRO	10	T	8	496	62

El Paso Electric Company

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April 2003 Interruptions

Interruption Classification: Outside Caused

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
4/2/2003	3:01 PM	4/2/2003 010		10185 GATEWAY WEST REMOVED MYLAR BALLOONS FROM TRANS. LINE.	SUBSTATION EQUIPMENT	OTHER SUBSTATION EQUIPMENT	FOREIGN OBJECT	HIGH WIND	MANN	00	T	8522	221572	26
4/18/2003	3:35 AM	4/18/2003 005		RGD 15 LOCKED OUT @4:32 CLOSED SWITCH 1930 TIED IN W/CROMO12	FEEDER BREAKER	OTHER SUBSTATION EQUIPMENT	EPE EQUIPMENT	SEASONAL	RIO GRANDE	15	T	2306	117608	51

El Paso Electric Company  
Texas Division  
April 2003 Interruptions  
Interruption Classification: Scheduled Outages

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
4/1/2003	1:48 PM	4/1/2003 001		8120 LEO: SPLICED IN 12FT OF NO.4 TRIPLEX / TREE RELATED	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED NEUTRAL	TREE RELATED	NORMAL	LEO	11	T	1	14	14
4/2/2003	12:45 PM	4/2/2003 003		9873 STAUBACH: REP 3 CORRODED PED 4'S-MAINT NEW POLES	MAINTENANCE	UG SECONDARY CONN. PED.	CORROSION OR RUST	NORMAL	AMERICAS	10	T	4	92	23
4/2/2003	12:54 PM	4/2/2003 005		2500 BLK ODD IDALIA: MAINT OUTAGE: TRANF SRVCS 2	MAINTENANCE	OTHER OH EQUIPMENT	EPE EQUIPMENT	SEASONAL	ALTURA	05	T	8	248	31
4/2/2003	9:37 AM	4/2/2003 006		3200 RIDGE VIEW CHG OUT A. SOME BAD PED 4'S ALL OKAY NOW.	MAINTENANCE	UG SECONDARY CONN. PED.	CORROSION OR RUST	NORMAL	LEO	11	T	3	357	119
4/2/2003	12:56 PM	4/2/2003 011		6100 BLK OF PINEHURST: MAINT OUTAGE / 2-CABLE SPLICES PRIM/S	MAINTENANCE	UG SECONDARY CABLE	EPE EQUIPMENT	SEASONAL	THORN	12	T	30	1950	65
4/3/2003	2:46 PM	4/3/2003 001		2901 GIRL SCOUT: 10 MIN MAINT OUTAGE	BROKEN/BAD CONNECTION	OTHER OH EQUIPMENT	EPE EQUIPMENT	NORMAL	RIO GRANDE	13	B	0.6	6	10
4/4/2003	1:00 PM	4/4/2003 006		104 MAGIC SHADOW UNDERGROUND MAINT. OUTAGE.	MAINTENANCE	UG ELBOW	FAILURE	NORMAL	SANTA TERESA	21	B	1.5	36	24
4/4/2003	2:38 PM	4/4/2003 005		6853 LA CADENA CHG OUT A 37.5KVA SUB. TO A.37.5KVA PADMOUNT.	MAINTENANCE	UG/PMT. TRANSFORMER	CORROSION OR RUST	SEASONAL	THORN	12	T	12	300	25
4/8/2003	1:42 PM	4/8/2003 003		10969 GARY PLAYER MAINT. OUTAGE CHG OUT 75KV/SUB/75KVAPDMT.	MAINTENANCE	UG/PMT TRANSFORMER	CORROSION OR RUST	SEASONAL	SOL	11	T	7	245	35
4/10/2003	10:10 AM	4/10/2003 001		7035 ORIZABA: MAINT. OUTAGE (SEE REMKS)	MAINTENANCE	UG/PMT TRANSFORMER	OTHER	SEASONAL	THORN	12	T	28	1260	45
4/10/2003	1:20 PM	4/10/2003 002		11013 GARY PLAYER: SWITCHING IN NEW CABLE (MAINT. OUTAGE)	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	SEASONAL	SOL	10	T	4	44	11
4/16/2003	12:30 PM	4/16/2003 006		468 ELK: MAINT OUTAGE	BROKEN/BAD CONNECTION	BROKEN/BURNED NEUTRAL	WEATHER RELATED	HIGH WIND	ANTHONY	20	B	0.7	14	20
4/16/2003	11:20 AM	4/16/2003 008		1601 PAUL HARNEY REP. 3CORRODED PED 4'S.	NOTHING	UG SECONDARY CONN. PED.	EPE EQUIPMENT	NORMAL	SOL	10	T	1	10	10
4/16/2003	2:46 PM	4/16/2003 009		142 TASSIE: MAINT OUTAGE OPEN CUTO TO CLEAR TREE FROM O.W.	BROKEN/BAD CONNECTION	BROKEN/BURNED SECONDARY	TREE RELATED	NORMAL	SOCORRO	10	T	8	496	62
4/22/2003	3:00 PM	4/22/2003 004		3309 CARIGO RE-RAN SERVICE AND DID SOME TREE TRIMMING.	MAINTENANCE	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL	LEO	01	T	1	116	116
4/22/2003	12:43 PM	4/22/2003 005		10913 DAVE MARR UNDERGROUND MAINT. OUTAGE CHG OUR 50KVA SUB.	MAINTENANCE	UG/PMT. TRANSFORMER	CORROSION OR RUST	SEASONAL	SOL	10	T	4	152	38
4/23/2003	12:59 PM	4/23/2003 022		500 TALBOT: UG MAINT OUTAGE	MAINTENANCE	UG SECONDARY CABLE	EPE EQUIPMENT	SEASONAL	MONTOYA	21	B	42.5	4632.5	109
4/23/2003	9:55 AM	4/23/2003 021		7242 DALE: MAINT. OUTAGE	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL	ASCARATE	04	T	10	600	60
4/23/2003	12:45 PM	4/23/2003 023		10928 GARY PLAYER: MAINT. OUTAGE	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL	SOL	11	T	4	180	45
4/23/2003	1:56 PM	4/23/2003 025		10945 GARY PLAYER: SWITCHING NEW CABLE	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL	SOL	11	T	4	56	14
4/24/2003	8:30 AM	5/1/2003 001		2905 ALABAMA MAINT RPLCD 40FT CLSA POLE INSTLL 10KVA & TRI	MAINTENANCE	POLE	EPE EQUIPMENT	NORMAL	ALTURA	04	T	1	60	60
4/25/2003	9:31 AM	4/25/2003 001		11501 BUNKY HENRY: CHG OUT CORRODED NEUTRAL PED 6 (3)	MAINTENANCE	UG SECONDARY CONN. PED.	EPE EQUIPMENT	SEASONAL	VISTA	15	T	6	390	65
4/25/2003	9:30 AM	4/25/2003 002		11645 CEDAR CREST: MAINT. OUTAGE	MAINTENANCE	UG/PMT TRANSFORMER	EPE EQUIPMENT	NORMAL	SOL	13	T	8	240	30
4/28/2003	12:00 PM	4/28/2003 003		111 COLINA ALTA CHANGED OUT CORRODED PED 4'S.	MAINTENANCE	UG SECONDARY CONN. PED.	CORROSION OR RUST	SEASONAL	CROMO	15	T	4	220	55

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El Paso Electric Company  
Texas Division  
October 2003 Interruptions  
Interruption Classification: FORCED

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
10/1/2003	1:55 AM	10/1/2003 001		1031 VINTON AVE. REF 15KVA 24KV 10A FUSE (ANIMAL)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	ANTHONY	20	B	0.7	174.3	249
10/1/2003	11:16 AM	10/1/2003 007		ACALA REFUSED 10KVA 24KV X-FORMER WITH 6AMP CAUSE UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	ALAMO	21	T	1	60	60
10/1/2003	1:59 PM	10/1/2003 011		224 NE H AVE REFUSED 15KVA 4KV X-FORMER WITH 10AMP STAYED	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	FABENS	02	T	9	585	65
10/1/2003	3:29 PM	10/1/2003 006		8157 STAGHORN BEHIND 8147 STAGHORN REFUSED 25KVA 4KV W/6AMP	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	LOMALAND	02	T	14	840	60
10/1/2003	2:55 PM	10/1/2003 008		7393 PATTY BERG RE-DID SWITCHING	OTHER TRANSFORMER FUSE	OTHER UG EQUIPMENT	EPE EQUIPMENT	NORMAL SEASONAL	THORN	15	T	15	3060	204
10/1/2003	8:11 PM	10/1/2003 003		8528 ALAMEDA: REF 25KVA X-FORMER	TRANSFORMER FUSE	LIGHTNING ARRESTER BROKEN/BAD CONNECTION	EPE EQUIPMENT	NORMAL SEASONAL	YSLETA	02	T	1	34	34
10/2/2003	8:12 AM	10/3/2003 002		5146 THORNTON, BKN CONN AT PED. CAUSE TIME	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	EPE EQUIPMENT	NORMAL SEASONAL	THORN	13	B	1.9	340.1	179
10/2/2003	4:48 PM	10/3/2003 003		4600 EDNA, 3-10K TRANS, CAUSE UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	DIG-IN	NORMAL SEASONAL	CLARDY	02	T	1	33	33
10/2/2003	7:26 PM	10/2/2003 001		10204 MONTWOOD: REF 25 KVA -- TREES	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL SEASONAL	SCOTSDALE	15	T	10	330	33
10/3/2003	8:08 AM	10/4/2003 001		8660 HICKORY: CHANGED OUT DAMAGED 27KV C/O	TRANSFORMER FUSE	CUTOFF	WEATHER RELATED	RAIN	ANTHONY	20	B	1.4	252	180
10/3/2003	2:06 PM	10/3/2003 004		6002 DONIPHAN: REF 100KVA W/6A (BIRD)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	MONTOYA	20	B	0.9	89.1	99
10/3/2003	4:51 PM	10/3/2003 008		6821 SECRETARIAT, 6K TRANS, CAUSE ENGULFED IN TREES	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	LIGHTNING/T-STORM	MONTOYA	20	B	0.9	155.7	173
10/3/2003	4:45 PM	10/3/2003 001		773 CAMINO REAL: CHG OUT BAD 25KVA PD MT	RISER FUSE	UG/PMT TRANSFORMER	EPE EQUIPMENT	NORMAL SEASONAL	THORN	13	B	0.95	255.55	269
10/3/2003	4:54 PM	10/3/2003 005		3702 CUMBERLAND, BKN SERVICE, UPROOTED TREE	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	LIGHTNING/T-STORM	ALTURA	06	T	1	98	98
10/3/2003	6:50 PM	10/4/2003 003		5900 PARKMONT, BKN #4 COPPER ON TRANS, CAUSE STORM	CIRCUIT OPEN(BROKEN WIRE)	OTHER OH EQUIPMENT	WEATHER RELATED	LIGHTNING/T-STORM	CORONADO	01	T	6	2268	378
10/3/2003	8:24 PM	10/3/2003 006		4213 OLYMPIC, 2-65KLTATS, CAUSE FLOATER & WEATHER	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	LIGHTNING/T-STORM	LEO	02	T	100	13900	139
10/3/2003	4:58 PM	10/3/2003 007		5779 FAIRBANKS, 2-102K LAT, CAUSE STORM	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	LIGHTNING/T-STORM	MILAGRO	15	T	50	12800	256
10/3/2003	12:26 AM	10/6/2003 007		3122 NATIONS REMADE CONNECTIONS AT RISER & POLE 10MIN OUTAGE	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	RAIN	SUMMIT	02	T	1	10	10
10/3/2003	11:12 PM	10/6/2003 009		4741 EMORY REMADE BOTH CONN @ RISER & POLE & SPLCD NEU 10MIN	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	LIGHTNING/T-STORM	THORN	10	T	1	11	11
10/4/2003	11:00 PM	10/4/2003 005		1910 VINTON, BKN NEUTRAL, CAUSE TREE	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED NEUTRAL	TREE RELATED	LIGHTNING/T-STORM	ANTHONY	20	B	0.7	90.3	129
10/4/2003	11:58 AM	10/4/2003 006		7301 WILDCAT, 50K LAT, CAUSE BIRD	LINE (LAT) FUSE	OTHER OH EQUIPMENT	BIRD	NORMAL SEASONAL	ANTHONY	20	B	7	588	84
10/4/2003	8:30 AM	10/4/2003 009		230 SAN ANTONIO, CSP TRIPPED, CAUSE WEATHER	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	ANTHONY	20	B	0.7	38.5	55
10/4/2003	8:05 AM	10/26/2003 001		200 CROSSETT, BROKEN NEUTRAL, CORROSION	NOTHING	BROKEN/BURNED NEUTRAL	CORROSION OR RUST	NORMAL SEASONAL	ANTHONY	20	B	1.4	236.6	169
10/4/2003	9:40 AM	10/4/2003 002		BORDERLAND & SALAS: CHG OUT DAMAGED 10' X-ARM	MAINTENANCE	BROKEN/BAD CROSSARM	LIGHTNING	NORMAL SEASONAL	ANTHONY	20	B	1.8	106.2	59
10/4/2003	10:03 AM	10/4/2003 011		FORT HANCOCK, 2-40K LAT, CAUSE WEATHER	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	ALAMO	21	T	25	4050	162

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10/4/2003	10:05 AM	10/5/2003 001	001	7118 DALE RD. REF 15A 4KV LATERAL	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	CUSTOMER EQUIPMENT	NORMAL	ASCARATE	04	T	25	2925	117
10/4/2003	8:31 AM	10/4/2003 010	010	12201 TRENT, 6K TRANS, CAUSE UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	LIGHTNING/STORM	CLINT	11	T	1	72	72
10/4/2003	4:12 AM	10/4/2003 004	004	4813 VULCAN APT B, 15K TRANS, CAUSE WEATHER	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	HIGH WIND	DIANA	01	T	1	46	46
10/4/2003	3:10 AM	10/4/2003 007	007	733 TAYOPA, 6K TRAN, CAUSE UNKNOWN	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	RAIN	MULBERRY	02	T	5	545	109
10/4/2003	9:13 PM	10/4/2003 012	012	788 LUPE ANNA: REF 25KVA 8KV 6A FUSE	TRANSFORMER FUSE	OTHER OH EQUIPMENT	WEATHER RELATED	RAIN	SPARKS	12	T	6	810	135
10/4/2003	1:33 PM	10/4/2003 008	008	EDGE MERE & GERONIMO, 200K RISER, CAUSE CAR V. GUY WIRE	RISER FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL	VISCOUNT	12	T	1	57	57
10/5/2003	6:50 AM	10/5/2003 007	007	CLEVELAND & CLARK CHNGD OUT 40FT CL-4 POLE REF3 85AMP LAT	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL	AUSTIN	04	T	150	51250	342
10/5/2003	1:33 AM	10/5/2003 003	003	11980 MONTANA REPLCD 40FT CL-4 W/10KVA 8KV X-FORMER	NOTHING	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL	CALLIENTE	10	T	1	446	446
10/5/2003	10:00 AM	10/5/2003 009	009	15229 LOS ANGELES CHNGD OUT BURNT MTR HIGHLINE GOT INTO DIST	OTHER	OTHER UG EQUIPMENT	EPE EQUIPMENT	NORMAL	CLINT	11	T	1	125	125
10/5/2003	8:38 AM	10/5/2003 010	010	15290 SOCORRO RD. REFUSED 10KVA 8KV WITH 6AMP BEHIND 6304 WESTWIND REF 25KVA 8KV X-FORMER WITH 6AMP STAYED	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	CLINT	11	T	1	36	36
10/5/2003	11:46 AM	10/5/2003 005	005	604 W 2ND CHANGED OUT #4TRIPLEX HAD TOO MANY SPLICES	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	CROMO	15	T	12	1512	126
10/5/2003	6:24 AM	10/5/2003 004	004	BEHIND 3302 KILLARNEY REFUSED 25AMP SINGLE PHASE LAT	OTHER	BROKEN/BURNED SECONDARY	OTHER	NORMAL	FARMER	21	T	1	30	30
10/5/2003	11:29 AM	10/5/2003 002	002	505 ROSE KENNEDY REFUSED 100AMP U/G RISER SINGLE PHASE	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	SCOTSDALE	12	T	16	2080	130
10/5/2003	11:58 AM	10/5/2003 006	006	7324 FRANKLIN TREE TORE DOWN SERVICE.	RISER FUSE	FAILURE	UNKNOWN	NORMAL	ZARAGOSA	10	T	30	1580	53
10/6/2003	9:14 AM	10/6/2003 004	004	580 ROMIE TRUCK 7008 CHANGED OUT X-FORMER SIZE ???	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL	ASCARATE	04	T	1	101	101
10/6/2003	10:41 AM	10/7/2003 003	003	442 CROWN POINT SEE REMARKS	TRANSFORMER FAILURE	TRANSFORMER (OH) BROKEN/BURNED SERVICE	EPE EQUIPMENT	NORMAL	CLINT	11	T	2	148	74
10/6/2003	12:40 PM	10/6/2003 010	010	4310 ALAMEDA REMADE 10FT OF #4 TRIPLEX.	BROKEN/BAD CONNECTION	BROKEN/BURNED SERVICE	EPE EQUIPMENT	NORMAL	CROMO	15	T	1	60	60
10/6/2003	2:24 PM	10/6/2003 008	008	4040 N STANTON RE-FUSED A 80AMP LATERAL.	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	OTHER	NORMAL	EAST	01	T	1	66	66
10/6/2003	7:25 PM	10/6/2003 001	001	4100 N STANTON: REF 25 KVA -- BIRDS	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	MISSION	01	T	40	1800	45
10/6/2003	10:55 PM	10/6/2003 003	003	5909 KURITA REMDE CONN @POLE TOOK CUST OUT FOR 10MIN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL	MISSION	01	T	15	1365	91
10/6/2003	9:16 AM	10/6/2003 011	011	1102 WESTWAY REF. A 15KVA 24KV X-FRMR & A 25AMP LAT.	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED NEUTRAL	TREE RELATED	NORMAL	PARKDALE	01	T	1	10	10
10/7/2003	12:18 AM	10/7/2003 004	004	7897 MANSFIELD...FUSE BROKE IN TWO...REFUSED	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	ANTHONY	20	B	7	497	71
10/7/2003	9:51 AM	10/7/2003 001	001	472 ST MATTHEWS ST SPICED OUT BROKEN NEUTRAL 20MIN OUTAGE	OTHER	OTHER OH EQUIPMENT	EPE EQUIPMENT	NORMAL	ASCARATE	10	T	1	46	46
10/7/2003	3:53 PM	10/7/2003 005	005	11650 GATEWAY EAST REF. 25AMP LAT. CHG OUT ARRESTOR.	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED NEUTRAL	UNKNOWN	NORMAL	CINECUE	01	T	1	20	20
10/7/2003	5:18 PM	10/7/2003 002	002		LINE (LAT) FUSE	LIGHTNING ARRESTER	ANIMAL/WILDLIFE	NORMAL	SPARKS	12	T	4	448	112



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10/8/2003	3:34 AM	10/8/2003 002	002	5101 BETH VIEW: REF 2-80A FUSES ON UG RISER (SEE REMKS)	RISER FUSE	OTHER UG EQUIPMENT	OTHER UG EQUIP FAILURE	NORMAL SEASONAL	MONTOYA	20	B	54	5778	107
10/8/2003	7:27 AM	10/8/2003 006	006	CLARDY SUB: BLN HISIDE FUSE W/PHS AUS 15-3/ BLN HISIDE CALBE	FEEDER BREAKER	UG PRIMARY CABLE FAILURE	UG CABLE FAILURE	NORMAL SEASONAL	CLARDY	02	T	219	11388	52
10/8/2003	8:10 AM	10/8/2003 004	004	4550 KRAG: REF 100A LATERAL	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED	RAIN	COYOTE	10	T	40	6200	155
10/8/2003	8:01 AM	10/8/2003 005	005	9712 BERMUDA: REF 25KVA W/6A FUSE (BIRD)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	SCOTSDALE	15	T	10	1900	190
10/8/2003	9:24 AM	10/8/2003 001	001	390 BELMONT: .25AMP LAT BLOWN, LIGHTNING	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	LIGHTNING	LIGHTNING/T-	SIERRA BLANCA	20	T	1	107	107
10/8/2003	3:58 PM	10/8/2003 003	003	BEHIND 250 REVELES: REF 50KVA W/10A FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	SOCORRO	10	T	8	800	100
10/8/2003	6:21 AM	11/9/2003 003	003	201 TANTON REPLACED 2-250KVA 8KV OVERHEAD X-FORMERS	TRANSFORMER FAILURE	TRANSFORMER (OH)	EPE EQUIPMENT	NORMAL SEASONAL	SOCORRO	10	T	1	353	353
10/9/2003	11:39 AM	10/9/2003 001	001	4827 EL PORTAL, BAD 50KVA TRANS, CAUSE OVERLOADED	TRANSFORMER FAILURE	TRANSFORMER (OH)	OVERLOADED	NORMAL SEASONAL	AUSTIN	16	T	1	187	187
10/9/2003	10:58 AM	10/9/2003 002	002	14940 DINO: REF 10KVA W/6A FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	CLINT	11	T	1	31	31
10/10/2003	5:47 PM	10/16/2003 004	004	1101 HOUSTON, 10K LAT, CAUSE UNKNOWN	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	FARMER	21	T	5	245	49
10/10/2003	5:46 PM	10/11/2003 003	003	222 BERNADINE, 15K TRANS, CAUSE UNKNOWN	TRANSFORMER FUSE	OTHER OH EQUIPMENT BROKEN/BURNED	UNKNOWN	NORMAL SEASONAL	MIDWAY	02	T	10	540	54
10/11/2003	9:16 AM	10/11/2003 004	004	5281 BUFFALO CREEK, BKN CONN AT POLE, CAUSE UNKNOWN	BROKEN/BAD CONNECTION	OTHER OH EQUIPMENT BROKEN/BURNED	UNKNOWN	NORMAL SEASONAL	COYOTE	10	T	2	314	157
10/11/2003	12:26 PM	10/16/2003 006	006	1274 HORIZON: POLE DOWN: REF 15A 8KV SINGLE PHS LATERAL	LINE (LAT) FUSE	POLE FAILURE	VEHICLE	NORMAL SEASONAL	SPARKS	12	T	2	730	365
10/11/2003	3:22 PM	10/11/2003 002	002	6869 DONIPHAN: RESET 10KVA CSP X-FORMER	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	THORN	12	T	1	50	50
10/11/2003	2:09 AM	10/14/2003 002	002	11717 SOCORRO REPLCD 40FT CL-1 POLE 25KVA X-F 2-10' X-ARMS	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BAD CROSSARM	VEHICLE	NORMAL SEASONAL	VALLEY	10	T	4	1640	410
10/11/2003	11:55 PM	10/11/2003 001	001	BEHIND 3307 WEXFORD: REF 25KVA W/6A FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	ANIMAL/WILDLIFE	NORMAL SEASONAL	VISTA	11	T	8	272	34
10/12/2003	1:09 PM	10/12/2003 002	002	6006 N MESA: 167KVA E PHS BAD. 2 HR OUTAGE	TRANSFORMER FAILURE	TRANSFORMER (OH)	EPE EQUIPMENT	NORMAL SEASONAL	CROMO	15	T	1	120	120
10/12/2003	7:45 PM	10/12/2003 001	001	8525 MOUNT DELANO: BURNT UP NEUTRAL	OPEN(BROKEN WIRE)	BROKEN/BURNED	TREE RELATED	NORMAL SEASONAL	DJANA	03	T	1	81	81
10/13/2003	9:34 AM	10/13/2003 006	006	ACALA RE-FUSED 10KVA 24KV X-FORMER WITH 6AMP STAYED	TRANSFORMER FUSE	NEUTRAL	UNKNOWN	NORMAL SEASONAL	ALAMO	21	T	1	74	74
10/13/2003	9:50 AM	10/13/2003 007	007	LILLY & GIFFORD: .80AMP 1PHS U.G. RISER BLEW BACK. BAD CABLE	RISER FUSE	UG PRIMARY CABLE FAILURE	EPE EQUIPMENT	NORMAL SEASONAL	AMERICAS	11	T	50	9650	193
10/13/2003	3:00 PM	10/13/2003 003	003	BEHIND 553 HUIERTA REPLCD 100AMP CUTO ON 25KVA 4KV X-FORMER	TRANSFORMER FUSE	CUTO	EPE EQUIPMENT	NORMAL SEASONAL	CLARDY	01	T	8	2080	260
10/13/2003	5:26 PM	10/13/2003 001	001	13981 SOCORRO RE-FUSED A 25AMP LATERAL	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	LIGHTNING/T-	CLINT	11	T	1	55	55
10/14/2003	12:40 PM	10/14/2003 001	001	9668 KATHY RE-FUSED A 10KVZ 8KV X-FORMER W/A 6AMP FUSE.	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	AMERICAS	11	T	1	98	98
10/15/2003	11:02 AM	10/15/2003 002	002	BEHIND 611 MONTECITO: REF 25KVA W/6A FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	ASCARATE	11	T	8	336	42
10/16/2003	4:48 AM	10/16/2003 005	005	7670 GATEWAY EAST, 25K LAT, CAUSE RUMORED POLE BUMPED	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	RANCHLAND	02	T	25	1950	78
10/16/2003	10:25 AM	10/16/2003 002	002	QUINTANA & SPOTTED HORSE: BAD CABLE (SEE REMKS)	RISER FUSE	UG PRIMARY CABLE	EPE EQUIPMENT	NORMAL SEASONAL	VISTA	13	T	100	32700	327

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10/16/2003	8:49 PM	10/16/2003 003		EDGE MERE BETWEEN WAYSIDE & EAST GLEN. M PHASE BLOWN (100A)	RISER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	VISTA	13	T	40	3000	75
10/17/2003	9:15 AM	10/22/2003 003		59451 FM 192 REFUSED 10KVA 24KV WITH 6AMP CAUSE LIGHTNING	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	WEATHER RELATED LIGHTNING	LIGHTNING/T-STORM	ALAMO	21	T	1	128	128
10/17/2003	10:21 AM	10/22/2003 002		15810 LOWELL REFUSED 10KVA 8KV X-FORMER WITH 6AMP (LIGHTNING)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	LIGHTNING	LIGHTNING/T-STORM	HORIZON	10	T	1	74	74
10/18/2003	7:26 AM	10/18/2003 002		10373 REDWOOD. PIGEONS GOT INTO OWS BLEW 25KVA 8KV, REF W/6	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL	SHEARMAN	10	T	10	680	68
10/19/2003	10:19 AM	10/19/2003 002		119-135 SILVERADO BAD RUN OF CABLE. (SEE REMARKS)	RISER FUSE	UG PRIMARY CABLE	CORROSION OR RUST	NORMAL	SANTA TERESA	21	B	2.5	857.5	343
10/19/2003	8:10 AM	10/19/2003 003		TX20 REPLCD SET OF 8FT BROKEN DOUBLES & 5KVA NOT IN USE	OPEN(BROKEN WIRE)	BROKEN/BURNED PRIMARY	UNKNOWN	NORMAL	FELIPE	20	T	3	390	130
10/19/2003	1:34 PM	10/19/2003 001		2012 DICIEMBRE RE-FUSED A 25KVA 8KV X-FORMER W/A 6AMP FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL	MANN	10	T	12	372	31
10/20/2003	10:24 AM	10/20/2003 002		8815 GATEWAY SOUTH: 15KVA OUT-VEHICLE BUMPED POLE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE CRANE/CONSTRUCTION EQUIP.	NORMAL	LEO	02	T	3	60	20
10/20/2003	1:09 PM	10/20/2003 001		SANTA FE 11 LOCKED OUT: CRANE IN LINES AT SANTA FE RR YARD	FEEDER BREAKER	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	SANTA FE	11	T	450	21150	47
10/21/2003	4:52 AM	10/21/2003 006		14501 ALAMEDA REMADE BROKEN CONNECTION ON SERVICE WIRE	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	EPE EQUIPMENT	NORMAL	CLINT	11	T	2	74	37
10/21/2003	8:02 AM	10/21/2003 001		109 KILA..REF 25KVA 8KV W/6. FIRE @ 16088 HORIZON 754 ZINC: REF 10KVA WITH 6 AMP FUSE -- UNKNOWN CAUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	FIRE	NORMAL	HORIZON	10	T	10	880	88
10/21/2003	10:18 AM	10/21/2003 004		10244 SHARP RE-FUSED A 25KVA 8KV X-FORMER W/A 6AMP FUSE.	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	HORIZON	11	T	8	768	96
10/21/2003	5:52 PM	10/21/2003 002		4887 VISTA DEL MONTE..REF 25KVA 8KV W/6. RAT 5911 YBARRA..REPLCD 100AMP 8KV CUTO ON 25AMP LAT	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL	SHEARMAN	10	T	12	588	49
10/22/2003	1:49 AM	10/22/2003 001		10460 WARREN, 8K TRANS. CAUSE UNKNOWN	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	ANIMAL/WILDLIFE	NORMAL	RIO GRANDE	13	B	0.6	43.2	72
10/22/2003	9:04 PM	10/22/2003 004		205 BUFORD, 40K UG RISER, CAUSE BALLON	OTHER TRANSFORMER FUSE	CUTO OUT	EPE EQUIPMENT	NORMAL	AUSTIN	04	T	15	315	21
10/22/2003	5:57 PM	10/23/2003 003		14725 REMINGTON: REF 10KVA W/6A FUSE (CAT)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	MILAGRO	17	T	1	92	92
10/23/2003	3:01 PM	10/23/2003 001		807 HILLS, BAD CONN AT METER, CAUSE EPEC	OTHER	BROKEN/BURNED SERVICE	FOREIGN OBJECT	NORMAL	SOCORRO	10	T	1	95	95
10/24/2003	4:08 PM	10/24/2003 005		122 PALMA, BAD CUTO OUT, CAUSE TIME	RISER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL	COYOTE	10	T	1	71	71
10/25/2003	5:00 AM	10/25/2003 009		1315 CHEYENNE, 25K TRANS. CAUSE TREES IN TRANS 5020 ALPS, BLOWN 25KVA 4KV TRANS, CAUSE CUST CUTTING TREE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL	SANTA FE	11	T	1	116	116
10/25/2003	3:12 PM	10/25/2003 007		2990 TRAWOOD, BAD CABLE, CAUSE TIME	RISER FUSE	UG PRIMARY CABLE	UNKNOWN	NORMAL	VISTA	15	T	60	12720	212
10/25/2003	8:28 PM	10/25/2003 006		10641 LIMAS: 2 BAD RUNS OF CABLE (SEE RMKS) 7741 KIELY CHANGED OUT A BAD 5KVA 24KV W/10KVA 24KV X-FORMER	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL	RIO GRANDE	13	B	6	1260	210
10/25/2003	6:00 PM	10/25/2003 008		MANN 14: LOCKED OUT	FEEDER BREAKER	BROKEN/BURNED NEUTRAL	TREE RELATED	NORMAL	CIELO	02	T	10	470	47
10/25/2003	7:12 PM	10/25/2003 001		10641 LIMAS: 2 BAD RUNS OF CABLE (SEE RMKS) 7741 KIELY CHANGED OUT A BAD 5KVA 24KV W/10KVA 24KV X-FORMER	RISER FUSE	UG PRIMARY CABLE	TREE RELATED	NORMAL	DIANA	03	T	8	288	36
10/26/2003	11:53 AM	10/26/2003 013			FEEDER BREAKER	NEUTRAL	EPE EQUIPMENT	NORMAL	MANN	14	T	2366	354356	150
					TRANSFORMER FAILURE	TRANSFORMER (OH)	UG CABLE FAILURE	NORMAL	VISTA	11	T	30	8970	298
							EPE EQUIPMENT	NORMAL	ANTHONY	20	B	0.7	219.8	314

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El Paso Electric Company  
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October 2003 Interruptions  
Interruption Classification: FORCED

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
10/26/2003	2:25 PM	10/26/2003 009	009	BEHIND 6568 STRAHAN RESET 10KVA 4KV CSP X-FORMER	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	CANUTILLO	01	T	2	284	147
10/26/2003	11:45 AM	10/26/2003 010	010	12165 OJEMADA REF 10KVA 8KV X-FORMER W/6AMP (CAUSE TREE)	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	TREE RELATED	HIGH WIND	CLINT	11	T	1	56	56
10/26/2003	5:16 PM	10/26/2003 012	012	9016 MOUNT DELANO CHINGD OUT GRASSHOPPER CONN WIANDIES 20MIN	BROKEN/BAD CONNECTION	OTHER OH EQUIPMENT	EPE EQUIPMENT	NORMAL SEASONAL	DIANA	03	T	2	40	20
10/26/2003	7:45 AM	10/26/2003 015	015	10404 OMICRON..BAD 25KVA 8KV SUB XFORMER..CHGD OPENED RECL14-9	LINE RECLOSER TRANSFORMER FAILURE	RECLOSER	ANIMAL/WILDLIFE	NORMAL SEASONAL	MESA	14	T	4	1440	360
10/26/2003	7:25 AM	10/27/2003 001	001	409 GREGORY BEHND 416 KERN REF 50KVA 4KV WITH 25AMP STAYED	TRANSFORMER FUSE	UG/PMT TRANSFORMER FAILURE	EPE EQUIPMENT	NORMAL SEASONAL	MILAGRO	12	T	5	1410	282
10/26/2003	6:40 AM	10/26/2003 011	011	1404 VERDI SEE REMARKS	TRANSFORMER FUSE	UG ELBOW	OTHER	NORMAL SEASONAL	MISSION	02	T	12	984	82
10/27/2003	4:51 PM	10/27/2003 003	003	1414 WASHINGTON SPLICED OUT #COPPER	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SECONDARY	UNKNOWN	NORMAL SEASONAL	ANTHONY	20	B	4.2	285.6	68
10/28/2003	4:07 AM	11/5/2003 001	001	REPLACED 6 AMP FUSE	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	ANTHONY	20	B	7	159.6	23
10/28/2003	1:48 AM	10/28/2003 001	001	3221 WEDGEWOOD..REF 25KVA 8KV W/6..UNKNOWN 3120 HECTOR..REF 50AMP U.G. RISER W PHS.BLW	TRANSFORMER FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	SCOTSDALE	12	T	10	420	42
10/28/2003	10:21 AM	10/28/2003 002	002	17498 BETTINA REFUSED 15KVA 8KV X-FORMER WITH 6AMP STAYED	RISER FUSE TRANSFORMER FUSE	UG PRIMARY CABLE	UG CABLE FAILURE	NORMAL SEASONAL	VISTA	11	T	150	31800	212
10/29/2003	12:46 PM	10/29/2003 004	004	ELOICE & ALCAN RPLCD CL4-40FT POLE 8FT REG X-ARM REF3-1025C	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	COYOTE	10	T	1	164	164
10/29/2003	5:57 PM	10/29/2003 003	003	OIL MILL & TIA: REF 100 AMP LAT	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	MILAGRO	14	T	75	5893	79
10/30/2003	9:58 AM	10/30/2003 001	001	OIL MILL & TIA: REF 100 AMP LAT	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	UNKNOWN	NORMAL SEASONAL	ALAMO	21	T	40	1640	41
10/30/2003	10:11 AM	10/30/2003 002	002	405SHARONDALE ADDED 3" PVC & @411SHARONDALE OPENED CABLE TAP	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	OVERLOADED	NORMAL SEASONAL	ALAMO	21	T	40	3120	78
10/30/2003	1:50 PM	11/9/2003 004	004	ALLWAY & YARBROUGH: REF 65A W/PHS RISER FUSE	OTHER	OTHER UG EQUIPMENT	DIG-IN	NORMAL SEASONAL	MESA	14	T	30	1800	60
10/31/2003	7:27 AM	11/1/2003 001	001	1059 RIO VISTA..REF 25AMP LAT..BIRD	RISER FUSE	UG PRIMARY CABLE	EPE EQUIPMENT	NORMAL SEASONAL	MANN	10	T	94	24910	265
10/31/2003	10:00 AM	10/31/2003 001	001	3337 VOSS..CORRODED NEUTRAL PED, REPLACED ALL 3..20 MIN OUTG	LINE (LAT) FUSE	NO EPE EQUIPMENT FAILURE	BIRD	NORMAL SEASONAL	SPARKS	12	T	1	37	37
10/31/2003	8:33 PM	10/31/2003 002	002	3..20 MIN OUTG	NOTHING	UG SECONDARY CONN. PED.	OTHER UG EQUIP FAILURE	NORMAL SEASONAL	VISTA	13	T	2	40	20



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Interruption Classification: Outside Caused

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
10/1/2003	4:57 AM	10/1/2003 002	002	ANTHONY 22: DIFFERENTIAL LOCKOUT	SUBSTATION EQUIPMENT	OTHER SUBSTATION EQUIPMENT	BIRD	NORMAL SEASONAL	ANTHONY 22	B	130.8	2354.4	18
10/1/2003	7:35 AM	10/1/2003 004	004	ANTHONY-22: TRIPPED FOR SUB REPAIR	FEEDER BREAKER	OTHER SUBSTATION EQUIPMENT	OTHER	NORMAL SEASONAL	ANTHONY 22	B	130.8	3008.4	23
10/5/2003	2:41 AM	10/5/2003 008	008	POLE HIT ON 5100 LINE, FAB-1 LOCKED OUT	FEEDER BREAKER	POLE	VEHICLE	NORMAL SEASONAL	FABENS 01	T	203	35737	176
10/5/2003	2:41 AM	10/6/2003 005	005	POLE HIT ON 5100 LINE, CLI-11 LOCKED OUT	FEEDER BREAKER	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	CLINT 11	T	1384	184984	134
10/5/2003	2:41 AM	10/6/2003 006	006	POLE HIT ON 5100 LINE, CL-01 LOCKED OUT	FEEDER BREAKER	NO EPE EQUIPMENT FAILURE	VEHICLE	NORMAL SEASONAL	CLINT 01	T	800	82900	104
10/16/2003	2:30 AM	10/16/2003 001	001	MESA 12.13.14,KEMP1,MISSION 1&2..T-1 OUT MESA SUB: T-1 DIFFERENTIAL LOCKED OUT, RAT	SUBSTATION EQUIPMENT	OTHER SUBSTATION EQUIPMENT	EPE EQUIPMENT	NORMAL SEASONAL	MESA 00	T	6081	370941	61
10/17/2003	11:51 PM	10/18/2003 001	001	ON TRSF	SUBSTATION EQUIPMENT	NO EPE EQUIPMENT FAILURE	ANIMAL/WILDLIFE	NORMAL SEASONAL	MESA 00	T	6081	279726	46

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 October 2003 Interruptions  
 Interruption Classification: Scheduled Outages

Outage Date	Time	Interruption Number	Seq	Interruption Description	Operating Device	Equipment Failing	Cause of Outage	Weather At Time	Substation	Feeder	Feeder State	Customers Interrupted	Cust-Minutes	Duration (minutes)
10/1/2003	3:10 PM	10/1/2003 005		9353 VISCONTI MAINTENANCE OUTAGE REPLACED 75KVA PAD WITH PAD	MAINTENANCE	UG/PMT TRANSFORMER	CORROSION OR RUST	NORMAL SEASONAL	SCOTSDALE	11	T	18	306	17
10/1/2003	12:00 PM	10/6/2003 009		6125 LOS ROBLES: U/G MAINTENANCE OUTAGE / REPLACED TRANS	MAINTENANCE	UG/PMT TRANSFORMER	CORROSION OR RUST	NORMAL SEASONAL	THORN	12	T	12	600	50
10/1/2003	1:00 PM	10/6/2003 010		6145 LOS ROBLES: U/G MAINTENANCE OUTAGE / REPLACED TRANS	MAINTENANCE	UG/PMT TRANSFORMER	CORROSION OR RUST	NORMAL SEASONAL	THORN	12	T	12	600	50
10/2/2003	10:40 AM	10/2/2003 002		FRONT OF 8628 LAKEHURST: MAINT OUTAGE/CHG OUT 25KVA SUB	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	THORN	15	T	10	400	40
10/2/2003	9:55 AM	10/2/2003 003		3424 ITASCA: MAINT. OUTAGE/CHG OUT 50KVA SUB TO PD MT	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	VISTA	13	T	12	408	34
10/2/2003	10:40 AM	10/2/2003 004		3456 ITASCA: MAINT. OUTAGE/CHG OUT 50KVA SUB TO PD MT	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	VISTA	13	T	12	348	29
10/2/2003	12:00 PM	10/6/2003 008		6109 LOS ROBLES: U/G MAINTENANCE OUTAGE / REPLACED TRANS	MAINTENANCE	UG/PMT TRANSFORMER	CORROSION OR RUST	NORMAL SEASONAL	THORN	12	T	8	400	50
10/11/2003	8:46 PM	10/11/2003 005		6101 PINTA: REMADE DAMAGED #4 TRIPLEX SERVICE	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	WEATHER RELATED	HIGH WIND	CORONADO	01	T	2	60	30
10/13/2003	10:36 AM	10/13/2003 002		1201 CINCINNATI SPICED OUT 20FT OF #4 TRIPLEX. 11773 MCAULIFFE CHNGD OUT TWO ELBOWS & 25KVA PAD MT MAINT	CIRCUIT OPEN(BROKEN WIRE)	BROKEN/BURNED SERVICE	TREE RELATED	NORMAL SEASONAL	SUNSET	02	T	1	103	103
10/13/2003	2:19 PM	10/13/2003 004		OVERLAND & FLORENCE REP 600AMP ELBOW BASIC ISO. PLUG&CONNPLUG	MAINTENANCE	UG ELBOW	EPE EQUIPMENT	NORMAL SEASONAL	VISTA	15	T	85	2635	31
10/13/2003	2:30 PM	10/13/2003 005		2308 ANISE CHANGED OUT CORRODED PED 4'S ALL 3 CUST OUT 15MIN	MAINTENANCE	UG ELBOW	EPE EQUIPMENT	NORMAL SEASONAL	DALLAS	12	T	5	100	20
10/14/2003	3:03 PM	10/14/2003 003		6800 BLK ORIZABA: MAINT. OUTAGE/CHG OUT 50KVA XFORMER	MAINTENANCE	UG SECONDARY CONN. PED.	RUST	NORMAL SEASONAL	VISTA	10	T	2	232	116
10/15/2003	11:00 AM	10/15/2003 001		1209 WEDGEWOOD: REMADE RISER WITH SPADES (MAINT. OUTAGE)	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	THORN	11	T	25	675	27
10/17/2003	8:22 AM	10/17/2003 001		1501 VANDERBILT REPLACED PED 4'S SPICED OUT SERVICES/REMADE	MAINTENANCE	NO EPE EQUIPMENT FAILURE	OTHER	NORMAL SEASONAL	SCOTSDALE	11	T	4	72	18
10/18/2003	7:00 PM	10/20/2003 003		1304 WAINWRIGHT, SCHED OUTAG. RLUCKY'S CREW	CIRCUIT OPEN(BROKEN WIRE)	UG SECONDARY CONN. PED.	EPE EQUIPMENT	NORMAL SEASONAL	SOL	10	T	12	360	30
10/23/2003	2:15 PM	10/23/2003 002		2990 TRAWOOD CHNGED OUT CORRODED 167KVA PAD MT W/167KVA PAD	MAINTENANCE	BROKEN/BAD CROSSARM	EPE EQUIPMENT	NORMAL SEASONAL	AUSTIN	02	T	8	264	33
10/27/2003	1:15 PM	10/27/2003 002		5201 HUNTERS GLENN REPLACED 3 BAD PED 4'S	MAINTENANCE	UG/PMT TRANSFORMER	CORROSION OR RUST	NORMAL SEASONAL	VISTA	15	T	30	690	23
10/28/2003	12:31 PM	10/28/2003 003		11515 JIM FERRIELL MAINT CHANGED OUT 3 CORRODED PED 4'S	MAINTENANCE	UG SECONDARY CONN. PED.	RUST	NORMAL SEASONAL	THORN	13	B	0.95	9.5	10
10/29/2003	6:40 PM	10/29/2003 002		3104 FIERRO: MAINT. OUTAGE/CHG OUT 37.5KVA XFORMER	BROKEN/BAD CONNECTION	UG SPLICE	RUST	NORMAL SEASONAL	SOL	14	T	6	210	35
10/30/2003	12:55 PM	10/30/2003 003		3104 FIERRO: MAINT./CHG OUT 37KVA SUB TO 37KVA PAD MOUNT	MAINTENANCE	UG/PMT TRANSFORMER	EPE EQUIPMENT	NORMAL SEASONAL	VISTA	11	T	8	336	42
10/30/2003	10:15 AM	10/30/2003 004		3321 MONTANA: CLEARED TREE & RE-ROUTED SRVC	MAINTENANCE	UG/PMT TRANSFORMER	EPE EQUIPMENT	NORMAL SEASONAL	VISTA	11	T	8	320	40
10/30/2003	4:35 PM	10/30/2003 005			NOTHING	NO EPE EQUIPMENT FAILURE	TREE RELATED	NORMAL SEASONAL	AUSTIN	16	T	1	34	34