



**SPP**

*Southwest  
Power Pool*

**System Impact Study for  
Transmission Service Requests**

**from**

**UTILICORP UNITED**

Missouri Public Service  
Empire District Electric Co.  
St. Joseph Light and Power Co.

**SPP Transmission Planning**

April 21, 2000

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## **I. Executive Summary**

Southwest Power Pool evaluated the impacts of the 10-year network service requests for UtiliCorp (OASIS #163522-MPS, #163526-EDE, #163530-SJLP). Multiple power flow model cases were developed and reviewed during the analysis portion of the study. The engineering results of the study show that facility upgrades and system improvements are required to accommodate the requested transmission service from the designated resources to the designated load.

The study was performed in two parts. The first part studied the existing system representation in the power flow model to determine what thermal overloads and voltage violations are present. All potential violations were reviewed with the transmission owner and a summary of these results is provided in Sections V and VI. UtiliCorp and SPP Criteria were used to determine what violations exist.

The second part studied the transfer of power between the three existing control areas. This determines the capability of the SPP transmission system to handle the new dispatch alternatives posed when the three control areas are combined. Selecting two exporting control areas and transferring power to the remaining control area was the technique used. Generator sensitivity analysis was then performed on the exporting and importing areas separately creating 2 runs for each of the 3 control areas in every power flow model. This provides a comprehensive review of possible generation dispatch for the power flow model represented. An attached Excel spreadsheet shows the summary results of the study. UtiliCorp removed its facilities from the list because of redispatch solutions available to alleviate overloads. The analysis shows that some facilities are required to allow for 200 MW transfers between the existing control areas.

## **II. Introduction**

UTILICORP UNITED has requested multi-year Network transmission service on the SPP OASIS (163522-MPS, 163526-EDE, 163530-SJLP). There are three operating companies in Missouri: MIPU, SJPL, EMDE. The three companies currently operate independently but for the purposes of this study are to be considered one control area. Therefore, the three System Impact Study requests (SPP-2000-006, SPP-2000-008, SPP-2000-009) were combined into one study. The period of the request is from 10/01/00 to 10/01/10. This system impact study was required in order to determine the capability of the transmission system for the requested period.

The principal objective of this study is to determine if the SPP transmission system is capable of supplying network service to the UtiliCorp companies in Missouri operating as a single control area.

### III. Study Methodology

The analysis was done to ensure current SPP Criteria and NERC Planning Standards requirements are fulfilled. The Southwest Power Pool (SPP) meets the NERC Planning Standards, Table No. 1, which provides the requirements related to thermal overloads with a contingency. It requires that all facilities be within emergency ratings after a contingency.

#### 1. Description

This study was done in two different parts. The first part was to study the 12 base cases to determine existing thermal overload and voltage problems. The SPP base case models were modified to reflect the most current modeling information. One branch or selected multiple branches were removed to study the affect on the system. Thermal overloads along with high and low voltages were recorded during the contingency analysis using AC solution and reported in Section V and VI.

The second part was done using PTI MUST to see what problems showed up for transfers up to 200 MW between the three existing Missouri companies. The MUST program performs a DC linear analysis of transfers. A generation sensitivity analysis (GSA) feature in MUST was used for determining what levels of transfers can be achieved between the existing three control areas. The GSA uses all available generation in the exporting control area as a base case transfer. Then each unit or groups of units are tested to determine the minimum level of transfer that can be obtained without any thermal overloads. This provides a complete review of all possible dispatch situations for transfers between the control areas. Overloads in the base case were ignored in the MUST runs since they are covered in the ACCC analysis portion in part one. The attached Excel spreadsheet summarizes the results of the study.

#### 2. Model Updates

Cases for year 2000 Fall Peak, 2000/01 Winter Peak, 2001 April, 2001 Spring Peak, 2001 Summer Peak, 2001 Fall Peak, and 2001/02 Winter Peak, 2004 Summer Peak, 2004/05 Winter Peak, 2006 Summer Peak, 2006/07 Winter Peak, and 2010 Summer Peak were included. These cases were modified to reflect future firm transfers not already included in the January 2000 base case series.

#### 3. Study Analysis

Using the created models and the ACCC function of PSS\E, single and select double contingency outages were analyzed. This function uses a full AC solution technique.

PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

##### **BASE CASES:**

Solutions - Fixed slope decoupled Newton-Raphson solution (FDNS)

A. Tap adjustment - Stepping

B. Area interchange control - Tie lines only

C. Var limits - Apply immediately

D. Solution options -  Phase shift adjustment

Flat start

- \_ Lock DC taps
- \_ Lock switched shunts

**ACCC CASES:**

Solutions - AC contingency checking (ACCC)

- A. MW mismatch tolerance -1.0
- B. Contingency case rating - Rate B
- C. Percent of rating - 100
- D. Output code - Summary
- E. Min flow change in overload report - 1mw
- F. Exclcd cases w/ no overloads form report - YES
- G. Exclude interfaces from report - NO
- H. Perform voltage limit check - YES
- I. Elements in available capacity table - 60000
- J. Cutoff threshold for available capacity table - 99999.0
- K. Min. contng. case Vltg chng for report - 0.02
- L. Sorted output - None

Newton Solution:

- Tap adjustment - Stepping
- Area interchange control - Tie lines only
- Var limits - Apply automatically
- Solution options -  Phase shift adjustment
  - \_ Flat start
  - \_ Lock DC taps
  - \_ Lock switched shunts

IV. BRANCH OVERLOADS

BRANCH OVERLOAD TABLE

2000 FALL PEAK, MISSOURI PUBLIC SERVICE - AREA 540

X-----MULTI-SECTION LINE GROUPINGS-----X		FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59202	[SIBLEY 5161.00]	TO	59263 [SIBLEY 269.000]	CKT 1	59262 LIBERTY269.0	59263*SIBLEY	269.0	1	37.2	83.3 78.0 103.1 reduce generation

2000 FALL PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544

NONE

2000 FALL PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679

NONE

2000 WINTER PEAK, MISSOURI PUBLIC SERVICE - AREA 540

NONE

2000 WINTER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544

X-----MULTI-SECTION LINE GROUPINGS-----X		FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59568	[STK324 269.000]	TO	59616 [STK631J269.000]	CKT 1	59545*FRP217 269.0	59635 FRP217	134.5	1	3.2	7.3 5.0 145.6 provide solutions
59568	[STK324 269.000]	TO	59638 [STK324 134.500]	CKT 1	59545*FRP217 269.0	59635 FRP217	134.5	1	3.2	7.2 5.0 145.0 provide solutions
59605	[STK418 269.000]	TO	59614 [SK631CJ269.000]	CKT 1	59545*FRP217 269.0	59635 FRP217	134.5	1	3.2	5.2 5.0 103.5 provide solutions
59637	[HUM308 134.500]	TO	59641 [CAP304 134.500]	CKT 1	59545*FRP217 269.0	59635 FRP217	134.5	1	3.2	7.0 5.0 140.7 provide solutions
59638	[STK324 134.500]	TO	59641 [CAP304 134.500]	CKT 1	59545*FRP217 269.0	59635 FRP217	134.5	1	3.2	7.3 5.0 145.1 provide solutions
59605	[STK418 269.000]	TO	96118 [5STKAEC 161.00]	CKT 1	59545*FRP217 269.0	59635 FRP217	134.5	1	3.2	5.2 5.0 103.4 provide solutions

2000 WINTER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679

NONE

2001 APRIL MINIMUM, MISSOURI PUBLIC SERVICE - AREA 540

NONE

2001 APRIL MINIMUM, EMPIRE DISTRICT ELECTRIC - AREA 544

NONE

2001 APRIL MINIMUM, ST. JOSEPH LIGHT AND POWER - AREA 679

NONE

**BRANCH OVERLOAD TABLE**

2001 FALL PEAK, MISSOURI PUBLIC SERVICE - AREA 540 NONE  
 2001 FALL PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544 NONE  
 2001 FALL PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679 NONE

**2001 SUMMER PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

X----- MULTI-SECTION LINE GROUPINGS ----X											
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT			
59202 [SIBLEY 5161.00]	TO 59263 [SIBLEY 269.000]	CKT 1	59262 LIBERTY269.0	59263*SIBLEY 269.0	1	46.7	88.5	78.0	110.1	Reduce Generation	
59206 [PRALEE 5161.00]	TO 59233 [LEESUM 5161.00]	CKT 1	59225 PHILL 5 161	59243*LKWINGB5 161 1		231.0	323.0	294.0	109.1	Line Rebuild	
			59243*LKWINGB5 161	59249 HOOKRD 5 161 1		212.8	304.7	294.0	102.9	Line Rebuild	
59208 [NEVADA 5161.00]	TO 59308 [NEVADA 269.000]	CKT 1	59208*NEVADA 5 161	59308 NEVADA 269.0	2	28.0	54.9	50.0	109.8	Generation	
59208 [NEVADA 5161.00]	TO 59308 [NEVADA 269.000]	CKT 2	59208*NEVADA 5 161	59308 NEVADA 269.0	1	31.8	55.9	50.0	111.7	Generation	
59209 [SEDALIA5161.00]	TO 59272 [SEDS 269.000]	CKT 1	59209*SEDALIA5 161	59271 SEDN 269.0	1	32.4	50.3	50.0	100.7	Shift Load to 161	
59218 [GRNWD 5161.00]	TO 59233 [LEESUM 5161.00]	CKT 1	59224 LNGVW 5 161	59249*HOOKRD 5 161 1		193.7	305.0	294.0	103.6	Line Rebuild	
			59225 PHILL 5 161	59243*LKWINGB5 161 1		231.0	343.4	294.0	116.1	Line Rebuild	
			59243 LKWINGB5 161	59249*HOOKRD 5 161 1		212.8	323.6	294.0	109.9	Line Rebuild	
59224 [LNGVW 5161.00]	TO 59249 [HOOKRD 5161.00]	CKT 1	59206 PRALEE 5 161	59233*LEESUM 5 161 1		172.1	259.5	245.0	105.3	Line Rebuild	
59224 [LNGVW 5161.00]	TO 59282 [LNGVW 269.000]	CKT 1	59210*MARTCTY5 161	59287 MARTCTY269.0	1	32.4	50.4	50.0	100.8	Acceptable	
59225 [PHILL 5161.00]	TO 59243 [LKWINGB5161.00]	CKT 1	59206*PRALEE 5 161	59233 LEESUM 5 161 1		172.1	274.5	245.0	112.1	Line Rebuild	
59225 [PHILL 5161.00]	TO 59280 [PHILL 269.000]	CKT 1	59228*WBURGE 5 161	59269 WBURGE 269.0	1	41.0	50.7	50.0	101.5	Generation	
			59239*HSNVL 5 161	59295 HSNVL 269.0	1	43.5	72.4	50.0	144.9	Generation	
			59284 GRDVWTP269.0	59288*RGAFB 269.0	1	31.3	61.2	53.0	123.2	Generation	
			59288 RGAFB 269.0	59289*BELTON 269.0	1	26.8	56.2	53.0	114.0	Generation	
			59289 BELTON 269.0	59290*BELTONS269.0	1	22.1	51.0	53.0	104.7	Generation	
59239 [HSNVL 5161.00]	TO 59295 [HSNVL 269.000]	CKT 1	59225*PHILL 5 161	59280 PHILL 269.0	1	78.0	102.1	100.0	102.1	Generation	
59242 [CLINTON5161.00]	TO 59303 [CLINTON269.000]	CKT 1	59242*CLINTON5 161	59303 CLINTON269.0	2	33.5	52.6	50.0	105.2	Acceptable	
59242 [CLINTON5161.00]	TO 59303 [CLINTON269.000]	CKT 2	59242*CLINTON5 161	59303 CLINTON269.0	1	33.4	52.9	50.0	105.8	Acceptable	
59243 [LKWINGB5161.00]	TO 59249 [HOOKRD 5161.00]	CKT 1	59206 PRALEE 5 161	59233*LEESUM 5 161 1		172.1	267.8	245.0	108.8	Line Rebuild	
59279 [RGREEN 269.000]	TO 59280 [PHILL 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	43.5	60.4	50.0	120.8	Generation	
			59296 HSNVLSW269.0	59297*HSNVLN 269.0	1	16.7	44.2	41.0	111.1	Generation	
59284 [GRDVWTP269.000]	TO 59288 [RGAFB 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	43.5	55.5	50.0	111.1	Generation	
59288 [RGAFB 269.000]	TO 59289 [BELTON 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	43.5	53.5	50.0	107.0	Acceptable	
59289 [BELTON 269.000]	TO 59290 [BELTONS269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	43.5	51.7	50.0	103.3	Acceptable	
59242 [CLINTON5161.00]	TO 96071 [5CLINTN 161.00]	CKT 1	59228*WBURGE 5 161	59269 WBURGE 269.0	1	41.0	65.8	50.0	131.6	Accept Risk	
			59268 WBURGP 269.0	59300*POSTOAK269.0	1	7.7	43.7	46.0	105.1	Accept Risk	

**2001 SUMMER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

X----- MULTI-SECTION LINE GROUPINGS ----X											
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT			
59480 [MON383 5161.00]	TO 59591 [MON383 269.000]	CKT 1	59468 AUR124 5 161	59480*MON383 5 161 1		120.2	168.3	157.0	109.5	reconductor	

**2001 SUMMER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**2001 SPRING PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

X----- MULTI-SECTION LINE GROUPINGS ----X											
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT			
59202 [SIBLEY 5161.00]	TO 59263 [SIBLEY 269.000]	CKT 1	59262 LIBERTY269.0	59263*SIBLEY 269.0	1	41.7	92.4	78.0	114.7	Reduce Generation	

**BRANCH OVERLOAD TABLE**

**2001 SPRING PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544** **NONE**  
**2001 SPRING PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679** **NONE**

**2001 WINTER PEAK, MISSOURI PUBLIC SERVICE - AREA 540** **NONE**

**2001 WINTER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

X----- MULTI-SECTION LINE GROUPINGS ----X										
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT		
59568 [STK324 269.000]	TO 59616 [STK631J269.000]	CKT 1 9545*	FRP217 269.0	59635	FRP217 134.5	1	3.4	7.3	5.0	146.3 provide solutions
59568 [STK324 269.000]	TO 59638 [STK324 134.500]	CKT 1 59545*	FRP217 269.0	59635	FRP217 134.5	1	3.4	7.3	5.0	145.6 provide solutions
59605 [STK418 269.000]	TO 59614 [SK631CJ269.000]	CKT 1 59545*	FRP217 269.0	59635	FRP217 134.5	1	3.4	5.0	5.0	100.6 provide solutions
59637 [HUM308 134.500]	TO 59641 [CAP304 134.500]	CKT 1 59545*	FRP217 269.0	59635	FRP217 134.5	1	3.4	7.1	5.0	141.5 provide solutions
59638 [STK324 134.500]	TO 59641 [CAP304 134.500]	CKT 1 59545*	FRP217 269.0	59635	FRP217 134.5	1	3.4	7.3	5.0	145.9 provide solutions
59605 [STK418 269.000]	TO 96118 [5STKAEC 161.00]	CKT 1 59545*	FRP217 269.0	59635	FRP217 134.5	1	3.4	5.0	5.0	100.5 provide solutions

**2001 WINTER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679** **NONE**

**2004 SUMMER PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

X----- MULTI-SECTION LINE GROUPINGS ----X										
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT		
59202 [SIBLEY 5161.00]	TO 59263 [SIBLEY 269.000]	CKT 1 59262	LIBERTY269.0	59263*	SIBLEY 269.0	1	44.9	87.5	78.0	108.8 Generation
59208 [NEVADA 5161.00]	TO 59308 [NEVADA 269.000]	CKT 1 59208*	NEVADA 5 161	59308	NEVADA 269.0	2		29.4	57.1	50.0 114.2 Acceptable
59208 [NEVADA 5161.00]	TO 59308 [NEVADA 269.000]	CKT 2 59208*	NEVADA 5 161	59308	NEVADA 269.0	1	33.4	58.1	50.0	116.3 Acceptable
59209 [SEDALIA5161.00]	TO 59271 [SEDN 269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1		46.5	54.2	50.0 108.5 Acceptable
59209 [SEDALIA5161.00]	TO 59272 [SEDS 269.000]	CKT 1 59209*	SEDALIA5 161	59271	SEDN 269.0	1	33.5	52.8	50.0	105.6 Acceptable
			59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	52.5	50.0 105.1 Acceptable
59225 [PHILL 5161.00]	TO 59280 [PHILL 269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	52.7	50.0	105.5 Acceptable
			59239*	HSNVL 5 161	59295	HSNVL 269.0	1	37.5	54.2	50.0 108.4 Acceptable
59229 [ODESSA 5161.00]	TO 59267 [ODESSA 269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	50.7	50.0	101.3 Acceptable
59232 [LEX161 5161.00]	TO 59264 [LEX69 269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	50.9	50.0	101.9 Acceptable
59242 [CLINTON5161.00]	TO 59303 [CLINTON269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1		46.5	51.7	50.0 103.4 Acceptable
			59242*	CLINTON5 161	59303	CLINTON269.0	2	35.7	56.0	50.0 111.9 Acceptable
59242 [CLINTON5161.00]	TO 59303 [CLINTON269.000]	CKT 2 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	51.6	50.0	103.2 Acceptable
			59242*	CLINTON5 161	59303	CLINTON269.0	1	36.1	56.7	50.0 113.4 Acceptable
59264 [LEX69 269.000]	TO 59265 [LEXNTON269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	50.9	50.0	101.9 Acceptable
59268 [WBURGP 269.000]	TO 59278 [HOLDEN 269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	50.4	50.0	100.9 Acceptable
59278 [HOLDEN 269.000]	TO 59279 [RGREEN 269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	57.7	50.0	115.4 Acceptable
59280 [PHILL 269.000]	TO 59290 [BELTONS269.000]	CKT 1 59284	GRDVWTP269.0	59288*	RGAFB 269.0	1		24.9	50.9	53.0 102.6 Upgrade
			59292*	ANCONDA269.0	59293	HSNVLW 269.0	1	16.3	33.3	32.0 106.2 Upgrade
59300 [POSTOAK269.000]	TO 59301 [CLNTPLT269.000]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	50.4	50.0	100.8 Acceptable
59242 [CLINTON5161.00]	TO 96071 [5CLINTN 161.00]	CKT 1 59228*	WBURGE 5 161	59269	WBURGE 269.0	1	46.5	73.0	50.0	146.0 Accept Risk
			59268	WBURGP 269.0	59300*	POSTOAK269.0	1	4.4	50.2	46.0 121.8 Accept Risk
			59300	POSTOAK269.0	59301*	CLNTPLT269.0	1	9.3	39.1	46.0 101.3 Accept Risk



**BRANCH OVERLOAD TABLE**

**2004 SUMMER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

X-----	MULTI-SECTION LINE GROUPINGS	----	FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59472	[TIP292 5161.00]	TO	59483	[JOP389 5161.00]	CKT 1	59483*JOP389 5 161 59592 JOP389 269.0 1	57.8	75.4	75.0	100.6	increase capacity
59480	[MON383 5161.00]	TO	59591	[MON383 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	119.3	173.5	157.0	113.1	reconductor
59483	[JOP389 5161.00]	TO	59607	[JOP422 5161.00]	CKT 1	59483*JOP389 5 161 59592 JOP389 269.0 1	57.8	77.0	75.0	102.7	increase capacity
59568	[STK324 269.000]	TO	59616	[STK631J269.000]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.0	6.5	6.0	107.9	provide solutions
59568	[STK324 269.000]	TO	59638	[STK324 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.0	6.3	6.0	104.8	provide solutions
59637	[HUM308 134.500]	TO	59641	[CAP304 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.0	6.1	6.0	101.3	provide solutions
59638	[STK324 134.500]	TO	59641	[CAP304 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.0	6.3	6.0	104.9	provide solutions

**2004 SUMMER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**2004 WINTER PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

X-----	MULTI-SECTION LINE GROUPINGS	----	FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59242	[CLINTON5161.00]	TO	96071	[5CLINTN 161.00]	CKT 1	59228*WBURGE 5 161 59269 WBURGE 269.0 1	34.6	50.3	50.0	100.6	Acceptable

**2004 WINTER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

X-----	MULTI-SECTION LINE GROUPINGS	----	FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59568	[STK324 269.000]	TO	59616	[STK631J269.000]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.6	7.7	5.0	153.4	provide solutions
59568	[STK324 269.000]	TO	59638	[STK324 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.6	7.6	5.0	152.7	provide solutions
59605	[STK418 269.000]	TO	59614	[SK631CJ269.000]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.6	5.6	5.0	112.2	provide solutions
59637	[HUM308 134.500]	TO	59641	[CAP304 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.6	7.6	5.0	152.9	provide solutions
59638	[STK324 134.500]	TO	59641	[CAP304 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.6	7.9	5.0	157.6	provide solutions
59605	[STK418 269.000]	TO	96118	[5STKAEC 161.00]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.6	5.6	5.0	112.1	provide solutions

**2004 WINTER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**2006 SUMMER PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

X-----	MULTI-SECTION LINE GROUPINGS	----	FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
BASE CASE											
59162	[PHILL#1 22.000]	TO	59225	[PHILL 5161.00]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	51.0	51.0	50.0	102.1	Planned Upgrades
						59151*SIBLEY#322.0 59202 SIBLEY 5 161 1	399.7	405.8	400.0	101.4	Rating
						59200*PHILL 7 345 59225 PHILL 5 161 1	210.2	416.5	400.0	104.1	Acceptable
						59239*HSNVL 5 161 59295 HSNVL 269.0 1	51.0	52.5	50.0	105.1	Planned Upgrades
59163	[PHILL#2 22.000]	TO	59200	[PHILL 7345.00]	CKT 1	59151*SIBLEY#322.0 59202 SIBLEY 5 161 1	399.7	403.6	400.0	100.9	Rating
59200	[PHILL 7345.00]	TO	59201	[SIBLEY 7345.00]	CKT 1	59151*SIBLEY#322.0 59202 SIBLEY 5 161 1	399.7	403.3	400.0	100.8	Rating
59200	[PHILL 7345.00]	TO	59225	[PHILL 5161.00]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	51.0	52.1	50.0	104.1	Planned Upgrades
59202	[SIBLEY 5161.00]	TO	59263	[SIBLEY 269.000]	CKT 1	59151*SIBLEY#322.0 59202 SIBLEY 5 161 1	399.7	400.7	400.0	100.2	Rating
						59262 LIBERTY269.0 59263*SIBLEY 269.0 1	45.1	82.7	78.0	102.9	Generation
59205	[BLSPE 5161.00]	TO	59211	[BLSPS 5161.00]	CKT 1	59151*SIBLEY#322.0 59202 SIBLEY 5 161 1	399.7	400.8	400.0	100.2	Rating
59206	[PRALEE 5161.00]	TO	59211	[BLSPS 5161.00]	CKT 1	59151*SIBLEY#322.0 59202 SIBLEY 5 161 1	399.7	401.4	400.0	100.4	Rating
59206	[PRALEE 5161.00]	TO	59233	[LEESUM 5161.00]	CKT 1	59151*SIBLEY#322.0 59202 SIBLEY 5 161 1	399.7	401.3	400.0	100.3	Rating
59207	[ARCHIE 5161.00]	TO	59239	[HSNVL 5161.00]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	51.0	52.3	50.0	104.6	Planned Upgrades
59207	[ARCHIE 5161.00]	TO	59240	[ADRIAN 5161.00]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	51.0	55.2	50.0	110.3	Planned Upgrades
59208	[NEVADA 5161.00]	TO	59216	[BUTLER_5161.00]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	51.0	53.2	50.0	106.4	Planned Upgrades
59208	[NEVADA 5161.00]	TO	59308	[NEVADA 269.000]	CKT 1	59208*NEVADA 5 161 59308 NEVADA 269.0 2	31.5	61.3	50.0	122.5	Acceptable
59208	[NEVADA 5161.00]	TO	59308	[NEVADA 269.000]	CKT 2	59208*NEVADA 5 161 59308 NEVADA 269.0 1	35.8	62.4	50.0	124.8	Acceptable
59209	[SEDALIA5161.00]	TO	59271	[SEDN 269.000]	CKT 1	59209*SEDALIA5 161 59272 SEDS 269.0 1	31.0	53.9	50.0	107.7	Acceptable
59209	[SEDALIA5161.00]	TO	59272	[SEDS 269.000]	CKT 1	59209*SEDALIA5 161 59271 SEDN 269.0 1	34.4	55.8	50.0	111.6	Acceptable
59210	[MARTCTY5161.00]	TO	59287	[MARTCTY269.000]	CKT 1	59225*PHILL 5 161 59280 PHILL 269.0 1	90.8	101.3	100.0	101.3	Acceptable
						59239*HSNVL 5 161 59295 HSNVL 269.0 1	51.0	57.6	50.0	115.2	Planned Upgrades

**BRANCH OVERLOAD TABLE**

X-----	MULTI-SECTION LINE GROUPINGS	----	X	FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59216	[BUTLER_5161.00]	TO	59240	[ADRIAN 5161.00]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	54.8	50.0	109.6	Planned Upgrades
59218	[GRNWD 5161.00]	TO	59225	[PHILL 5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	401.1	400.0	100.3 Rating
59218	[GRNWD 5161.00]	TO	59233	[LEESUM 5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	402.3	400.0	100.6 Rating
59219	[RAYTOWN5161.00]	TO	59220	[FROSTRD5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	401.3	400.0	100.3 Rating
59220	[FROSTRD5161.00]	TO	59245	[KCSOUTH5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	400.7	400.0	100.2 Rating
59224	[LNGVW 5161.00]	TO	59245	[KCSOUTH5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	401.2	400.0	100.3 Rating
59224	[LNGVW 5161.00]	TO	59249	[HOOKRD 5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	401.2	400.0	100.3 Rating
						59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	101.4	100.0	101.4 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	53.3	50.0	106.5	Planned Upgrades
59224	[LNGVW 5161.00]	TO	59282	[LNGVW 269.000]	CKT 1	59210*MARTCTY5 161	59287 MARTCTY269.0 1		37.8	58.8	50.0	117.5 Acceptable
						59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	103.9	100.0	103.9 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	58.0	50.0	116.1	Planned Upgrades
59225	[PHILL 5161.00]	TO	59243	[LKWINGB5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	401.9	400.0	100.5 Rating
						59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	103.3	100.0	103.3 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	53.7	50.0	107.4	Planned Upgrades
59225	[PHILL 5161.00]	TO	59280	[PHILL 269.000]	CKT 1	59210*MARTCTY5 161	59287 MARTCTY269.0 1		37.8	56.7	50.0	113.4 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	85.0	50.0	170.0	Planned Upgrades
						59284 GRDVWTP269.0	59288*RGAFB 269.0 1		35.8	70.1	53.0	144.8 Upgrade
						59288 RGAFB 269.0	59289*BELTON 269.0 1		30.5	64.2	53.0	133.7 Upgrade
						59289 BELTON 269.0	59290*BELTONS269.0 1		25.1	58.0	53.0	122.5 Upgrade
						59296 HSNVLSW269.0	59297*HSNVLN 269.0 1		17.7	41.7	41.0	109.5 Upgrade
59239	[HSNVL 5161.00]	TO	59295	[HSNVL 269.000]	CKT 1	59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	119.4	100.0	119.4 Acceptable
						59284 GRDVWTP269.0	59288*RGAFB 269.0 1		35.8	53.2	53.0	106.3 Upgrade
59242	[CLINTON5161.00]	TO	59303	[CLINTON269.000]	CKT 1	59242*CLINTON5 161	59303 CLINTON269.0 2		38.4	60.1	50.0	120.1 Acceptable
59242	[CLINTON5161.00]	TO	59303	[CLINTON269.000]	CKT 2	59242*CLINTON5 161	59303 CLINTON269.0 1		38.9	60.8	50.0	121.6 Acceptable
59243	[LKWINGB5161.00]	TO	59249	[HOOKRD 5161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	401.5	400.0	100.4 Rating
						59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	102.4	100.0	102.4 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	53.5	50.0	107.0	Planned Upgrades
59268	[WBURGP 269.000]	TO	59269	[WBURGE 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1		51.0	52.3	50.0	104.6 Planned Upgrades
59268	[WBURGP 269.000]	TO	59278	[HOLDEN 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	52.1	50.0	104.2	Planned Upgrades
59279	[RGREEN 269.000]	TO	59280	[PHILL 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1		51.0	69.3	50.0	138.5 Generation
						59295 HSNVL 269.0	59296*HSNVLN 269.0 1		21.3	53.0	53.0	102.6 Generation
						59296 HSNVLSW269.0	59297*HSNVLN 269.0 1		17.7	48.7	41.0	123.6 Generation
59279	[RGREEN 269.000]	TO	59297	[HSNVLN 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1		51.0	55.3	50.0	110.6 Planned Upgrades
59280	[PHILL 269.000]	TO	59290	[BELTONS269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1		51.0	52.8	50.0	105.6 Planned Upgrades
						59284 GRDVWTP269.0	59288*RGAFB 269.0 1		35.8	55.6	53.0	112.7 Upgrade
						59288 RGAFB 269.0	59289*BELTON 269.0 1		30.5	50.0	53.0	102.1 Upgrade
						59292*ANCONDA269.0	59293 HSNVLW 269.0 1		17.9	33.1	32.0	104.8 Upgrade
59282	[LNGVW 269.000]	TO	59284	[GRDVWTP269.000]	CKT 1	59210*MARTCTY5 161	59287 MARTCTY269.0 1		37.8	54.4	50.0	108.7 Acceptable
						59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	101.1	100.0	101.1 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	56.4	50.0	112.8	Planned Upgrades
59284	[GRDVWTP269.000]	TO	59285	[GRDWCTY269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1		51.0	52.2	50.0	104.4 Planned Upgrades
59284	[GRDVWTP269.000]	TO	59288	[RGAFB 269.000]	CKT 1	59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	115.5	100.0	115.5 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	65.3	50.0	130.7	Planned Upgrades
59285	[GRDWCTY269.000]	TO	59286	[GRDWST 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1		51.0	54.2	50.0	108.4 Planned Upgrades
59286	[GRDWST 269.000]	TO	59287	[MARTCTY269.000]	CKT 1	59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	101.2	100.0	101.2 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	57.6	50.0	115.1	Planned Upgrades
59288	[RGAFB 269.000]	TO	59289	[BELTON 269.000]	CKT 1	59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	111.6	100.0	111.6 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	63.0	50.0	126.0	Planned Upgrades
59289	[BELTON 269.000]	TO	59290	[BELTONS269.000]	CKT 1	59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	107.6	100.0	107.6 Acceptable
						59239*HSNVL 5 161	59295 HSNVL 269.0 1	51.0	60.7	50.0	121.3	Planned Upgrades
59295	[HSNVL 269.000]	TO	59296	[HSNVLN 269.000]	CKT 1	59225*PHILL 5 161	59280 PHILL 269.0 1		90.8	100.7	100.0	100.7 Acceptable
59201	[SIBLEY 7345.00]	TO	31408	[OVERTON 345.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY 5 161 1		399.7	402.7	400.0	100.7 Rating
59210	[MARTCTY5161.00]	TO	58002	[MARTCIT5161.00]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0 1		51.0	52.8	50.0	105.6 Planned Upgrades

**BRANCH OVERLOAD TABLE**

X-----	MULTI-SECTION LINE GROUPINGS	----	X	FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59217	[WINDSR 5161.00]	TO	96071	[SCLINTN 161.00]	CKT 1	59239*HSNVL	5 161 59295 HSNVL	269.0 1	51.0	52.0	50.0	104.1 Planned Upgrades
59242	[CLINTON5161.00]	TO	96071	[SCLINTN 161.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY	5 161 1	399.7	401.2	400.0	100.3 Accept Risk
						59208*NEVADA	5 161 59308 NEVADA	269.0 1	35.8	50.3	50.0	100.6 Accept Risk
						59239*HSNVL	5 161 59295 HSNVL	269.0 1	51.0	53.6	50.0	107.3 Accept Risk
						59268 WBURGP	269.0 59300*POSTOAK269.0	1	1.5	54.2	46.0	135.1 Accept Risk
						59300 POSTOAK269.0	59301*CLNTPLT269.0	1	9.3	41.8	46.0	112.1 Accept Risk
SPP-12												
59207	[ARCHIE 5161.00]	TO	59240	[ADRIAN 5161.00]	CKT 1	59239*HSNVL	5 161 59295 HSNVL	269.0 1	51.0	55.1	50.0	110.3 Planned Upgrades
59216	[BUTLER_5161.00]	TO	59240	[ADRIAN 5161.00]	CKT 1							
59208	[NEVADA 5161.00]	TO	59216	[BUTLER_5161.00]	CKT 1							
CONTINGENCY SPP-CIRCGD1												
56752	[HOYT 7345.00]	TO	56758	[STRANGR7345.00]	CKT 1	59151*SIBLEY#322.0	59202 SIBLEY	5 161 1	399.7	400.8	400.0	100.2 Rating
57043	[CIRCLE 3115.00]	TO	57058	[MOUNDRG3115.00]	CKT 1							
57033	[SPRGCRK3115.00]	TO	57058	[MOUNDRG3115.00]	CKT 1							

**2006 SUMMER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

X-----	MULTI-SECTION LINE GROUPINGS	----	X	FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
BASE CASE						59468 AUR124	5 161 59480*MON383	5 161 1	154.2	154.2	157.0	100.7 reconductor
59400	[MON376J269.000]	TO	59402	[MON416J269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.4	157.0	101.3 reconductor
59400	[MON376J269.000]	TO	59591	[MON383 269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	156.2	157.0	101.7 reconductor
59405	[MON352J269.000]	TO	59591	[MON383 269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.4	157.0	101.3 reconductor
59468	[AUR124 5161.00]	TO	59480	[MON383 5161.00]	CKT 1	59480*MON383	5 161 59591 MON383	269.0 1	122.3	156.5	150.0	104.3 increase capacity
59469	[RIV167 5161.00]	TO	59487	[HOC404 5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.3	157.0	101.4 reconductor
59469	[RIV167 5161.00]	TO	59498	[STL439 5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.9	157.0	101.9 reconductor
59470	[JOP145 5161.00]	TO	59539	[JOP145 269.000]	CKT 1	59483*JOP389	5 161 59592 JOP389	269.0 1	59.5	75.7	75.0	101.0 increase capacity
59472	[TIP292 5161.00]	TO	59483	[JOP389 5161.00]	CKT 1	59483*JOP389	5 161 59592 JOP389	269.0 1	59.5	76.6	75.0	102.1 increase capacity
59474	[OZD312 5161.00]	TO	59482	[HOL387 5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.3	157.0	101.4 reconductor
59480	[MON383 5161.00]	TO	59591	[MON383 269.000]	CKT 1	59468*AUR124	5 161 59480 MON383	5 161 1	154.2	205.0	157.0	134.8 reconductor
						59468*AUR124	5 161 59537 AUR124	269.0 3	23.7	45.9	42.0	109.4 increase capacity
59482	[HOL387 5161.00]	TO	59497	[RVS438 5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.6	157.0	101.6 reconductor
59483	[JOP389 5161.00]	TO	59498	[STL439 5161.00]	CKT 2	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	153.2	157.0	100.1 reconductor
59483	[JOP389 5161.00]	TO	59607	[JOP422 5161.00]	CKT 1	59483*JOP389	5 161 59592 JOP389	269.0 1	59.5	79.3	75.0	105.7 increase capacity
59488	[BRN412 5161.00]	TO	59495	[GRT433 5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	156.8	157.0	102.5 reconductor
59489	[BRN413 5161.00]	TO	59495	[GRT433 5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	158.5	157.0	103.6 reconductor
59489	[BRN413 5161.00]	TO	59497	[RVS438 5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	161.4	157.0	105.5 reconductor
59532	[CAR108 269.000]	TO	59600	[JAS403T269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	156.5	157.0	102.2 reconductor
59537	[AUR124 269.000]	TO	59540	[MON152 269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	157.4	157.0	102.8 reconductor
59540	[MON152 269.000]	TO	59591	[MON383 269.000]	CKT 1	159468 AUR124	5 161 59480*MON383	5 161 1	154.2	164.5	157.0	107.4 reconductor
59546	[BIL221 269.000]	TO	59580	[REP359 269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	153.2	157.0	100.1 reconductor
59548	[BOS249 269.000]	TO	59550	[GLD251 269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.9	157.0	101.8 reconductor
59548	[BOS249 269.000]	TO	59600	[JAS403T269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.9	157.0	101.8 reconductor
59550	[GLD251 269.000]	TO	59598	[LKW400 269.000]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.4	157.0	101.5 reconductor
59568	[STK324 269.000]	TO	59616	[STK631J269.000]	CKT 1	59545*FRP217	269.0 59635 FRP217	134.5 1	3.0	6.8	6.0	112.7 provide solutions
59568	[STK324 269.000]	TO	59638	[STK324 134.500]	CKT 1	59545*FRP217	269.0 59635 FRP217	134.5 1	3.0	6.6	6.0	109.4 provide solutions
59593	[JOP391 5161.00]	TO	59607	[JOP422 5161.00]	CKT 1	59483*JOP389	5 161 59592 JOP389	269.0 1	59.5	75.8	75.0	101.0 increase capacity
59637	[HUM308 134.500]	TO	59641	[CAP304 134.500]	CKT 1	59545*FRP217	269.0 59635 FRP217	134.5 1	3.0	6.4	6.0	105.9 provide solutions
59638	[STK324 134.500]	TO	59641	[CAP304 134.500]	CKT 1	59545*FRP217	269.0 59635 FRP217	134.5 1	3.0	6.6	6.0	109.6 provide solutions
59471	[NEO184 5161.00]	TO	52686	[NEO SPA5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	155.8	157.0	101.8 reconductor
59472	[TIP292 5161.00]	TO	52686	[NEO SPA5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	159.3	157.0	104.2 reconductor
59478	[DAD368 5161.00]	TO	96101	[SMORGAN 161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	188.2	157.0	123.3 reconductor
59479	[LAR382 5161.00]	TO	52688	[CARTHAG5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	159.8	157.0	104.3 reconductor
59479	[LAR382 5161.00]	TO	52692	[SPRGFLD5161.00]	CKT 1	59468 AUR124	5 161 59480*MON383	5 161 1	154.2	169.3	157.0	110.8 reconductor

**BRANCH OVERLOAD TABLE**

X----- MULTI-SECTION LINE GROUPINGS ----X										
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT		
59481 [MON383 7345.00]	TO 59984 [BRKLINE 7345.00]	CKT 1	59468 AUR124 5 161	59480*MON383 5 161	1	154.2	178.4	157.0	116.2	reconductor
59497 [RVS438 5161.00]	TO 52672 [TABLE R5161.00]	CKT 1	59468 AUR124 5 161	59480*MON383 5 161	1	154.2	181.6	157.0	119.2	reconductor
CONTINGENCY SPP-12										
59207 [ARCHIE 5161.00]	TO 59240 [ADRIAN 5161.00]	CKT 1	59468 AUR124 5 161	59480*MON383 5 161	1	154.2	162.0	157.0	106.2	reconductor
59216 [BUTLER_5161.00]	TO 59240 [ADRIAN 5161.00]	CKT 1								
59208 [NEVADA 5161.00]	TO 59216 [BUTLER_5161.00]	CKT 1								
CONTINGENCY SPP-CIRCGD1										
56752 [HOYT 7345.00]	TO 56758 [STRANGR7345.00]	CKT 1	59468 AUR124 5 161	59480*MON383 5 161	1	154.2	155.4	157.0	101.5	reconductor
57043 [CIRCLE 3115.00]	TO 57058 [MOUNDRG3115.00]	CKT 1								
57033 [SPRGCRK3115.00]	TO 57058 [MOUNDRG3115.00]	CKT 1								

**2006 SUMMER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**2006 WINTER PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

X----- MULTI-SECTION LINE GROUPINGS ----X										
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT		
59225 [PHILL 5161.00]	TO 59280 [PHILL 269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	30.6	52.2	50.0	104.4	Acceptable

**2006 WINTER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

X----- MULTI-SECTION LINE GROUPINGS ----X										
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT		
59545 [FRP217 269.000]	TO 59635 [FRP217 134.500]	CKT 1	59568*STK324 269.0	59638 STK324 134.5	1	4.8	9.4	9.0	104.2	provide solutions
59568 [STK324 269.000]	TO 59616 [STK631J269.000]	CKT 1	59545*FRP217 269.0	59635 FRP217 134.5	1	3.8	8.2	5.0	164.1	provide solutions
59568 [STK324 269.000]	TO 59638 [STK324 134.500]	CKT 1	59545*FRP217 269.0	59635 FRP217 134.5	1	3.8	8.2	5.0	163.3	provide solutions
59605 [STK418 269.000]	TO 59614 [SK631CJ269.000]	CKT 1	59545*FRP217 269.0	59635 FRP217 134.5	1	3.8	6.1	5.0	121.5	provide solutions
59635 [FRP217 134.500]	TO 59639 [DUN283 134.500]	CKT 1	59568*STK324 269.0	59638 STK324 134.5	1	4.8	9.4	9.0	104.7	provide solutions
59637 [HUM308 134.500]	TO 59641 [CAP304 134.500]	CKT 1	59545*FRP217 269.0	59635 FRP217 134.5	1	3.8	7.9	5.0	158.9	provide solutions
59638 [STK324 134.500]	TO 59641 [CAP304 134.500]	CKT 1	59545*FRP217 269.0	59635 FRP217 134.5	1	3.8	8.2	5.0	163.5	provide solutions
59605 [STK418 269.000]	TO 96118 [5STKAEC 161.00]	CKT 1	59545*FRP217 269.0	59635 FRP217 134.5	1	3.8	6.1	5.0	122.8	provide solutions

**2006 WINTER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**2010 SUMMER PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

X----- MULTI-SECTION LINE GROUPINGS ----X										
FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT		
59202 [SIBLEY 5161.00]	TO 59263 [SIBLEY 269.000]	CKT 1	59262 LIBERTY269.0	59263*SIBLEY 269.0	1	45.7	85.0	78.0	105.7	Generation
59207 [ARCHIE 5161.00]	TO 59239 [HSNVL 5161.00]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	47.2	50.5	50.0	100.9	Acceptable
59207 [ARCHIE 5161.00]	TO 59240 [ADRIAN 5161.00]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	47.2	51.9	50.0	103.9	Acceptable
59208 [NEVADA 5161.00]	TO 59216 [BUTLER_5161.00]	CKT 1	59216*BUTLER_5 161	96689 2BUTLER 69.0	1	38.3	59.4	56.0	106.0	Not Valid
59208 [NEVADA 5161.00]	TO 59308 [NEVADA 269.000]	CKT 1	59208*NEVADA 5 161	59308 NEVADA 269.0	2	36.0	72.8	50.0	145.6	Generation
59208 [NEVADA 5161.00]	TO 59308 [NEVADA 269.000]	CKT 2	59208*NEVADA 5 161	59308 NEVADA 269.0	1	41.0	73.1	50.0	146.2	Generation
59209 [SEDALIA5161.00]	TO 59271 [SEDN 269.000]	CKT 1	59209*SEDALIA5 161	59272 SEDS 269.0	1	34.9	59.8	50.0	119.6	Shift Load-161
			59269 WBURGE 269.0	59270*KNOSTER269.0	1	20.9	35.9	35.0	105.0	Shift Load-161
59209 [SEDALIA5161.00]	TO 59272 [SEDS 269.000]	CKT 1	59209*SEDALIA5 161	59271 SEDN 269.0	1	37.1	61.0	50.0	122.0	Shift Load-161
			59269 WBURGE 269.0	59270*KNOSTER269.0	1	20.9	34.4	35.0	100.6	Shift Load-161
59210 [MARTCTY5161.00]	TO 59287 [MARTCTY269.000]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	47.2	52.8	50.0	105.6	Acceptable
59216 [BUTLER_5161.00]	TO 59240 [ADRIAN 5161.00]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	47.2	51.5	50.0	103.1	Not Valid
59224 [LNGVW 5161.00]	TO 59282 [LNGVW 269.000]	CKT 1	59210*MARTCTY5 161	59287 MARTCTY269.0	1	38.3	59.7	50.0	119.5	Acceptable
			59239*HSNVL 5 161	59295 HSNVL 269.0	1	47.2	54.0	50.0	108.0	Acceptable
59225 [PHILL 5161.00]	TO 59243 [LKWINGB5161.00]	CKT 1	59239*HSNVL 5 161	59295 HSNVL 269.0	1	47.2	50.1	50.0	100.2	Acceptable

**BRANCH OVERLOAD TABLE**

X----- MULTI-SECTION LINE GROUPINGS -----X		FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59225	[PHILL 5161.00]	TO	59280 [PHILL 269.000]	CKT 1	59210*MARTCTY5 161 59287 MARTCTY269.0 1	1	38.3	50.2	50.0	100.4 Acceptable
					59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	70.5	50.0	140.9 Planned Upgrades
					59284 GRDVWTP269.0 59288*RGAFB 269.0 1	1	32.8	58.5	53.0	115.0 Upgrade
					59288 RGAFB 269.0 59289*BELTON 269.0 1	1	26.8	52.4	53.0	103.5 Upgrade
59228	[WBURGE 5161.00]	TO	59269 [WBURGE 269.000]	CKT 1	59228*WBURGE 5 161 59269 WBURGE 269.0 2	2	34.2	54.5	50.0	109.0 Acceptable
59228	[WBURGE 5161.00]	TO	59269 [WBURGE 269.000]	CKT 2	59228*WBURGE 5 161 59269 WBURGE 269.0 1	1	34.2	54.5	50.0	109.0 Acceptable
59239	[HSNVL 5161.00]	TO	59295 [HSNVL 269.000]	CKT 1	59279 RGREEN 269.0 59297*HSNVLN 269.0 1	1	19.1	43.2	41.0	113.8 Acceptable
59242	[CLINTON5161.00]	TO	59303 [CLINTON269.000]	CKT 1	59242*CLINTON5 161 59303 CLINTON269.0 2	2	42.7	66.9	50.0	133.8 Upgrade
59242	[CLINTON5161.00]	TO	59303 [CLINTON269.000]	CKT 2	59242*CLINTON5 161 59303 CLINTON269.0 1	1	43.2	67.6	50.0	135.2 Upgrade
59279	[RGREEN 269.000]	TO	59280 [PHILL 269.000]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	53.7	50.0	107.4 Acceptable
59279	[RGREEN 269.000]	TO	59297 [HSNVLN 269.000]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	57.8	50.0	115.5 Acceptable
59280	[PHILL 269.000]	TO	59290 [BELTONS269.000]	CKT 1	59210*MARTCTY5 161 59287 MARTCTY269.0 1	1	38.3	55.1	50.0	110.1 Upgrade
					59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	52.0	50.0	104.0 Upgrade
					59284 GRDVWTP269.0 59288*RGAFB 269.0 1	1	32.8	62.2	53.0	127.9 Upgrade
					59288 RGAFB 269.0 59289*BELTON 269.0 1	1	26.8	55.7	53.0	115.7 Upgrade
					59289 BELTON 269.0 59290*BELTONS269.0 1	1	20.7	49.0	53.0	103.1 Upgrade
					59292*ANCONDA269.0 59293 HSNVLW 269.0 1	1	19.3	39.2	32.0	125.9 Upgrade
59282	[LNGVW 269.000]	TO	59284 [GRDVWTP269.000]	CKT 1	59210*MARTCTY5 161 59287 MARTCTY269.0 1	1	38.3	55.2	50.0	110.4 Acceptable
					59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	52.5	50.0	105.1 Acceptable
59284	[GRDVWTP269.000]	TO	59288 [RGAFB 269.000]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	59.5	50.0	119.0 Acceptable
59286	[GRDWST 269.000]	TO	59287 [MARTCTY269.000]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	52.8	50.0	105.6 Acceptable
59288	[RGAFB 269.000]	TO	59289 [BELTON 269.000]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	56.8	50.0	113.7 Acceptable
59289	[BELTON 269.000]	TO	59290 [BELTONS269.000]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	54.1	50.0	108.3 Acceptable
59301	[CLNTPLT269.000]	TO	59304 [URICHTP269.000]	CKT 1	59208*NEVADA 5 161 59308 NEVADA 269.0 1	1	41.0	52.8	50.0	105.5 Acceptable
59302	[CLNTGRN269.000]	TO	59303 [CLINTON269.000]	CKT 1	59301*CLNTPLT269.0 59303 CLINTON269.0 1	1	51.7	80.7	78.0	102.4 Upgrade
59304	[URICHTP269.000]	TO	59306 [APCITY 269.000]	CKT 1	59208*NEVADA 5 161 59308 NEVADA 269.0 1	1	41.0	50.5	50.0	101.1 Acceptable
59307	[NEVPLT 269.000]	TO	59308 [NEVADA 269.000]	CKT 1	59242*CLINTON5 161 59303 CLINTON269.0 1	1	43.2	56.0	50.0	112.0 Switch
					59242*CLINTON5 161 59303 CLINTON269.0 2	2	42.7	54.8	50.0	109.7 Switch
					59242*CLINTON5 161 96071 5CLINTN 161 1	1	85.7	110.8	100.0	110.4 Switch
59242	[CLINTON5161.00]	TO	96071 [5CLINTN 161.00]	CKT 1	59208*NEVADA 5 161 59308 NEVADA 269.0 1	1	41.0	59.4	50.0	118.8 Accept Risk
					59208*NEVADA 5 161 59308 NEVADA 269.0 2	2	36.0	52.2	50.0	104.4 Accept Risk
					59228*WBURGE 5 161 59269 WBURGE 269.0 1	1	34.2	54.4	50.0	108.8 Accept Risk
					59228*WBURGE 5 161 59269 WBURGE 269.0 2	2	34.2	54.4	50.0	108.8 Accept Risk
					59268 WBURGP 269.0 59300*POSTOAK269.0 1	1	3.1	64.1	46.0	168.6 Accept Risk
					59300 POSTOAK269.0 59301*CLNTPLT269.0 1	1	7.2	48.7	46.0	141.6 Accept Risk
CONTINGENCY SPP-12										
59207	[ARCHIE 5161.00]	TO	59240 [ADRIAN 5161.00]	CKT 1	59239*HSNVL 5 161 59295 HSNVL 269.0 1	1	47.2	51.9	50.0	103.9 Generation
59216	[BUTLER_5161.00]	TO	59240 [ADRIAN 5161.00]	CKT 1						
59208	[NEVADA 5161.00]	TO	59216 [BUTLER_5161.00]	CKT 1						

**2010 SUMMER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

X----- MULTI-SECTION LINE GROUPINGS -----X		FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
BASE CASE -----										
			59468 AUR124 5 161		59480*MON383 5 161 1	1	165.8	165.8	157.0	109.4 reconductor
			59554*BAX271 269.0		59636 BAX271 134.5 1	1	9.4	9.4	9.0	104.0 increase capacity
59400	[MON376J269.000]	TO	59402 [MON416J269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	167.1	157.0	110.0 reconductor
59400	[MON376J269.000]	TO	59591 [MON383 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	167.8	157.0	110.3 reconductor
59405	[MON352J269.000]	TO	59591 [MON383 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	167.1	157.0	110.0 reconductor
59425	[HER209 269.000]	TO	59528 [BOL 73 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	164.7	157.0	108.6 reconductor
59431	[WEB105 269.000]	TO	59556 [OAK280 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	166.8	157.0	110.1 reconductor
59464	[BOL 73 5161.00]	TO	59493 [BOL431 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	163.5	157.0	109.5 reconductor
59465	[COL 94 5161.00]	TO	59469 [RIV167 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	163.8	157.0	108.1 reconductor
59468	[AUR124 5161.00]	TO	59480 [MON383 5161.00]	CKT 1	59480*MON383 5 161 59591 MON383 269.0 1	1	136.7	174.9	150.0	116.6 increase capacity
59468	[AUR124 5161.00]	TO	59537 [AUR124 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	1	165.8	162.9	157.0	107.5 reconductor

**BRANCH OVERLOAD TABLE**

X----- MULTI-SECTION LINE GROUPINGS -----X		FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59468	[AUR124 5161.00]	TO 59537	[AUR124 269.000]	CKT 2	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	162.2	157.0	107.0	reconductor
59468	[AUR124 5161.00]	TO 59537	[AUR124 269.000]	CKT 3	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	156.8	157.0	103.5	reconductor
59469	[RIV167 5161.00]	TO 59487	[HOC404 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	167.9	157.0	110.8	reconductor
59469	[RIV167 5161.00]	TO 59498	[STL439 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	167.8	157.0	110.8	reconductor
59470	[JOP145 5161.00]	TO 59498	[STL439 5161.00]	CKT 1	59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	80.3	75.0	107.0	increase capacity
59470	[JOP145 5161.00]	TO 59539	[JOP145 269.000]	CKT 1	59467 ORO110 5 161 59534*ORO110 269.0 1	55.9	78.8	75.0	105.1	increase capacity
					59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	84.5	75.0	112.7	increase capacity
59472	[TIP292 5161.00]	TO 59480	[MON383 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	157.1	157.0	103.9	reconductor
59472	[TIP292 5161.00]	TO 59483	[JOP389 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	155.8	157.0	103.0	reconductor
					59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	83.3	75.0	111.1	increase capacity
					59500 RNM393 5 161 59595*RNM393 269.0 1	57.9	76.6	75.0	102.2	increase capacity
59475	[BRN331 5161.00]	TO 59488	[BRN412 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.0	157.0	108.2	reconductor
59476	[ASB349 5161.00]	TO 59491	[PUR421 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.1	157.0	108.4	reconductor
59478	[DAD368 5161.00]	TO 59493	[BOL431 5161.00]	CKT 1	59545 FRP217 269.0 59585*DAD368 269.0 1	16.2	45.4	39.0	115.8	reconductor 69kv
					59545*FRP217 269.0 59612 BOL602 269.0 1	12.2	42.2	39.0	110.9	reconductor 69kv
59478	[DAD368 5161.00]	TO 59499	[CPK446 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.4	157.0	108.5	reconductor
59480	[MON383 5161.00]	TO 59481	[MON383 7345.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	154.6	157.0	103.4	reconductor
59480	[MON383 5161.00]	TO 59591	[MON383 269.000]	CKT 1	59468*AUR124 5 161 59480 MON383 5 161 1	165.8	222.3	157.0	148.8	reconductor
					59468*AUR124 5 161 59537 AUR124 269.0 2	13.0	25.5	24.0	106.1	increase capacity
					59468*AUR124 5 161 59537 AUR124 269.0 3	26.3	51.6	42.0	123.0	increase capacity
					59537 AUR124 269.0 59540*MON152 269.0 1	6.1	60.2	65.0	100.9	reconductor 69kv
59482	[HOL387 5161.00]	TO 59497	[RVS438 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	167.1	157.0	110.3	reconductor
59483	[JOP389 5161.00]	TO 59498	[STL439 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	163.9	157.0	108.2	reconductor
59483	[JOP389 5161.00]	TO 59498	[STL439 5161.00]	CKT 2	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.7	157.0	108.7	reconductor
59483	[JOP389 5161.00]	TO 59607	[JOP422 5161.00]	CKT 1	59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	87.2	75.0	116.3	increase capacity
59485	[CAR395 5161.00]	TO 59491	[PUR421 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.4	157.0	108.6	reconductor
59488	[BRN412 5161.00]	TO 59495	[GRT433 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	168.4	157.0	111.2	reconductor
59489	[BRN413 5161.00]	TO 59495	[GRT433 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	170.3	157.0	112.5	reconductor
59489	[BRN413 5161.00]	TO 59497	[RVS438 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	173.5	157.0	114.7	reconductor
59499	[CPK446 5161.00]	TO 59618	[CPK446 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	156.3	157.0	103.2	reconductor
59500	[RNM393 5161.00]	TO 59593	[JOP391 5161.00]	CKT 1	59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	77.1	75.0	102.8	increase capacity
59500	[RNM393 5161.00]	TO 59595	[RNM393 269.000]	CKT 1	59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	77.0	75.0	102.6	increase capacity
59532	[CAR108 269.000]	TO 59600	[JAS403T269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	167.9	157.0	110.8	reconductor
59537	[AUR124 269.000]	TO 59540	[MON152 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	168.6	157.0	111.3	reconductor
59537	[AUR124 269.000]	TO 59578	[AUR355 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	162.6	157.0	107.2	reconductor
					59618 CPK446 269.0 96677*2MTVRN 69.0 1	18.1	35.7	36.0	103.4	reconductor 69kv
59537	[AUR124 269.000]	TO 59611	[MAR437 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	162.9	157.0	107.5	reconductor
59538	[DIA131 269.000]	TO 59595	[RNM393 269.000]	CKT 1	59480*MON383 5 161 59591 MON383 269.0 1	136.7	154.1	150.0	102.7	increase capacity
59540	[MON152 269.000]	TO 59591	[MON383 269.000]	CKT 1	59468*AUR124 5 161 59480 MON383 5 161 1	165.8	175.3	157.0	117.0	reconductor
59546	[BIL221 269.000]	TO 59580	[REP359 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.7	157.0	108.7	reconductor
59546	[BIL221 269.000]	TO 59611	[MAR437 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.4	157.0	108.5	reconductor
59548	[BOS249 269.000]	TO 59550	[GLD251 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	167.2	157.0	110.3	reconductor
59548	[BOS249 269.000]	TO 59600	[JAS403T269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	167.2	157.0	110.3	reconductor
59568	[STK324 269.000]	TO 59616	[STK631J269.000]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.2	7.1	6.0	117.9	provide solution
59568	[STK324 269.000]	TO 59638	[STK324 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.2	7.3	6.0	121.7	provide solution
59570	[OZK330 269.000]	TO 59604	[BHJ415 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	166.9	157.0	110.2	reconductor
					59474*OZD312 5 161 59562 OZD312 269.0 1	20.9	46.4	42.0	110.4	provied solution
					59562 OZD312 269.0 59603*FOR410 269.0 1	20.7	44.4	45.0	101.8	reconductor 69kv
59577	[MTV351 269.000]	TO 59606	[MTV420 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.4	157.0	108.4	reconductor
59578	[AUR355 269.000]	TO 59606	[MTV420 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	163.9	157.0	108.0	reconductor
59586	[WIL445 269.000]	TO 59691	[WIL369 269.000]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.1	157.0	108.2	reconductor
59593	[JOP391 5161.00]	TO 59607	[JOP422 5161.00]	CKT 1	59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	83.3	75.0	111.1	increase capacity

**BRANCH OVERLOAD TABLE**

X-----MULTI-SECTION LINE GROUPINGS ----X		FROM	NAME	TO	NAME	CKT	PRE-CNT	POST-CNT	RATING	PERCENT
59637	[HUM308 134.500]	TO	59641 [CAP304 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.2	6.8	6.0	113.8	provide solution
59638	[STK324 134.500]	TO	59641 [CAP304 134.500]	CKT 1	59545*FRP217 269.0 59635 FRP217 134.5 1	3.2	7.0	6.0	117.4	provide solution
59471	[NEO184 5161.00]	TO	52686 [NEO SPA5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	168.5	157.0	111.3	reconductor
					59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	75.9	75.0	101.2	increase capacity
59472	[TIP292 5161.00]	TO	52686 [NEO SPA5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	171.9	157.0	113.6	reconductor
					59483*JOP389 5 161 59592 JOP389 269.0 1	66.1	76.7	75.0	102.3	increase capacity
59474	[OZD312 5161.00]	TO	17879 [50MAHA *161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.4	157.0	108.4	reconductor
59478	[DAD368 5161.00]	TO	96101 [5MORGAN 161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	206.8	157.0	137.0	reconductor
59479	[LAR382 5161.00]	TO	52688 [CARTHAG5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	184.7	157.0	122.3	reconductor
					59479*LAR382 5 161 59480 MON383 5 161 1	221.1	337.7	268.0	127.6	operating guide
59479	[LAR382 5161.00]	TO	52692 [SPRGFLD5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	184.8	157.0	122.4	reconductor
					59479 LAR382 5 161 59480*MON383 5 161 1	221.1	279.8	268.0	108.6	operating guide
59481	[MON383 7345.00]	TO	53140 [FLINTCR7345.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	159.4	157.0	106.3	reconductor
59481	[MON383 7345.00]	TO	59984 [BRKLE 7345.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	174.7	157.0	115.1	reconductor
59484	[DEC392 5161.00]	TO	53139 [FLINTCR5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	163.4	157.0	108.0	reconductor
					59471*NEO184 5 161 52686 NEO SPA5 161 1	109.1	162.4	157.0	109.0	reconductor
59487	[HOC404 5161.00]	TO	54431 [MIAMI 5161.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	166.9	157.0	110.1	reconductor
59497	[RVS438 5161.00]	TO	52672 [TABLE R5161.00]	CKT 1	59468*AUR124 5 161 59480 MON383 5 161 1	165.8	191.6	157.0	129.2	reconductor
CONTINGENCY SPP-07										
53277	[LYDIA 7345.00]	TO	54037 [VALIANT7345.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	158.4	157.0	104.5	reconductor
53277	[LYDIA 7345.00]	TO	53301 [NWTXARK7345.00]	CKT 1						
53277	[LYDIA 7345.00]	TO	53615 [WELSH 7345.00]	CKT 1						
CONTINGENCY SPP-12										
59207	[ARCHIE 5161.00]	TO	59240 [ADRIAN 5161.00]	CKT 1	59468*AUR124 5 161 59480 MON383 5 161 1	165.8	172.9	157.0	116.1	reconductor
59216	[BUTLER_5161.00]	TO	59240 [ADRIAN 5161.00]	CKT 1						
59208	[NEVADA 5161.00]	TO	59216 [BUTLER_5161.00]	CKT 1						
CONTINGENCY SPP-28										
51534	[TUCO 7345.00]	TO	54119 [O.K.U.-7345.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	162.2	157.0	107.0	reconductor
51533	[TUCO 6230.00]	TO	51534 [TUCO 7345.00]	CKT 1						
54119	[O.K.U.-7345.00]	TO	54131 [L.E.S.-7345.00]	CKT 1						
54119	[O.K.U.-7345.00]	TO	59991 [OKLAUN 7345.00]	CKT 1						
CONTINGENCY SPP-CIRCGD1										
56752	[HOYT 7345.00]	TO	56758 [STRANGR7345.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	167.1	157.0	110.3	reconductor
57043	[CIRCLE 3115.00]	TO	57058 [MOUNDRG3115.00]	CKT 1						
57033	[SPRGCRK3115.00]	TO	57058 [MOUNDRG3115.00]	CKT 1						
CONTINGENCY SPP-CIRCGD3										
56754	[LANG 7345.00]	TO	56761 [WICHITA7345.00]	CKT 1	59468 AUR124 5 161 59480*MON383 5 161 1	165.8	164.3	157.0	108.4	reconductor
57043	[CIRCLE 3115.00]	TO	57058 [MOUNDRG3115.00]	CKT 1						
57033	[SPRGCRK3115.00]	TO	57058 [MOUNDRG3115.00]	CKT 1						

**2010 SUMMER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**V. VOLTAGE REPORTS**

**VOLTAGE REPORT TABLE**

**2000 FALL PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59286	[GRDWST 269.000]	TO BUS 59287	[MARTCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY	269.0		1.0543	1.0260 LTC
59307	[NEVPLT 269.000]	TO BUS 59308	[NEVADA 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59306	APCITY	269.0		0.9269	1.0113 SWITCH
						59307	NEVPLT	269.0		0.8808	1.0264 SWITCH
						59311	NEVJCT	269.0		0.8798	1.0256 SWITCH
						59312	LAMAR	269.0		0.8619	1.0107 SWITCH
59308	[NEVADA 269.000]	TO BUS 59309	[METZ 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#	113.2		1.0570	1.0287 LTC
						59307	NEVPLT	269.0		1.0543	1.0264 LTC
						59308	NEVADA	269.0		1.0570	1.0287 LTC
						59311	NEVJCT	269.0		1.0536	1.0256 LTC
59309	[METZ 269.000]	TO BUS 59310	[3M 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#	113.2		1.0503	1.0287 LTC
						59308	NEVADA	269.0		1.0503	1.0287 LTC
59242	[CLINTON5161.00]	TO BUS 96071	[5CLINTN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59302	CLNTGRN	269.0		0.9495	1.0205 ACCEPTABLE
CONTINGENCY SPP-12											
59207	[ARCHIE 5161.00]	TO BUS 59240	[ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59216	BUTLER_5	161		0.8927	1.0129 ACCEPTABLE
59216	[BUTLER_5161.00]	TO BUS 59240	[ADRIAN 5161.00]	CKT 1							
59208	[NEVADA 5161.00]	TO BUS 59216	[BUTLER_5161.00]	CKT 1							

**2000 FALL PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544**

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59464	[BOL 73 5161.00]	TO BUS 59528	[BOL 73 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59425	HER209	269.0		0.9261	0.9812 above .90
						59432	BUF243J	269.0		0.9333	0.9677 above .90
						59434	BUF409	269.0		0.9213	0.9619 above .90
						59528	BOL 73	269.0		0.9410	0.9951 above .90
						59547	BUF243	269.0		0.9331	0.9676 above .90
						59572	FGC333	269.0		0.9349	0.9679 above .90
						59575	BUF342	269.0		0.9278	0.9681 above .90
						59584	BOL367	269.0		0.9429	0.9882 above .90
						59587	STR370	269.0		0.9494	0.9743 above .90
						59596	FRG397	269.0		0.9477	0.9738 above .90
						59612	BOL602	269.0		0.9456	0.9883 above .90
59478	[DAD368 5161.00]	TO BUS 59493	[BOL431 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59425	HER209	269.0		0.9449	0.9812 above .90
						59434	BUF409	269.0		0.9386	0.9619 above .90
						59575	BUF342	269.0		0.9450	0.9681 above .90
59480	[MON383 5161.00]	TO BUS 59591	[MON383 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59400	MON376J	269.0		0.9466	0.9788 above .90
						59401	MON376	269.0		0.9455	0.9777 above .90
						59403	MON416	269.0		0.9417	0.9740 above .90
						59402	MON416J	269.0		0.9419	0.9743 above .90
						59404	PUR390	269.0		0.9246	0.9578 above .90
59528	[BOL 73 269.000]	TO BUS 59575	[BUF342 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59432	BUF243J	269.0		0.9294	0.9677 above .90
						59434	BUF409	269.0		0.9119	0.9619 above .90
						59547	BUF243	269.0		0.9292	0.9676 above .90
						59572	FGC333	269.0		0.9324	0.9679 above .90
						59575	BUF342	269.0		0.9184	0.9681 above .90
59535	[NIX114 269.000]	TO BUS 59604	[BHJ415 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59535	NIX114	269.0		0.9383	1.0042 above .90
						59542	NIC170	269.0		0.9490	0.9845 above .90
						59546	BIL221	269.0		0.9442	0.9646 above .90
						59576	REP345	269.0		0.9398	0.9684 above .90
						59580	REP359	269.0		0.9349	0.9599 above .90



VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59537	[AUR124 269.000]	TO BUS	59578 [AUR355 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364 269.0	0.8971	0.9793 capacitor 69kv
						59552	LAW260 269.0	0.9254	0.9850 above .90
						59553	ALB262 269.0	0.8995	0.9815 capacitor 69kv
						59573	HTC338 269.0	0.9099	0.9829 above .90
						59577	MTV351 269.0	0.8906	0.9824 capacitor 69kv
						59578	AUR355 269.0	0.8811	0.9910 capacitor 69kv
						59606	MTV420 269.0	0.8896	0.9830 capacitor 69kv
59537	[AUR124 269.000]	TO BUS	59611 [MAR437 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59546	BIL221 269.0	0.8917	0.9646 capacitor 69kv
						59576	REP345 269.0	0.9200	0.9684 above .90
						59580	REP359 269.0	0.8997	0.9599 capacitor 69kv
						59611	MAR437 269.0	0.8822	0.9786 capacitor 69kv
59542	[NIC170 269.000]	TO BUS	59576 [REP345 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59546	BIL221 269.0	0.9195	0.9646 above .90
						59576	REP345 269.0	0.9036	0.9684 above .90
						59580	REP359 269.0	0.9037	0.9599 above .90
59545	[FRP217 269.000]	TO BUS	59635 [FRP217 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59635	FRP217 134.5	0.9159	1.0258 above .90
						59637	HUM308 134.5	0.9178	0.9949 above .90
						59639	DUN283 134.5	0.9162	1.0098 above .90
						59640	COL318 134.5	0.9037	0.9818 above .90
59546	[BIL221 269.000]	TO BUS	59580 [REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59580	REP359 269.0	0.9384	0.9599 above .90
59546	[BIL221 269.000]	TO BUS	59611 [MAR437 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59546	BIL221 269.0	0.9227	0.9646 above .90
						59576	REP345 269.0	0.9407	0.9684 above .90
						59580	REP359 269.0	0.9254	0.9599 above .90
59568	[STK324 269.000]	TO BUS	59616 [STK631J269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59568	STK324 269.0	0.9474	1.0043 above .90
59570	[OZK330 269.000]	TO BUS	59604 [BHJ415 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59570	OZK330 269.0	0.9202	1.0091 above .90
						59609	OZK434 269.0	0.9231	1.0054 above .90
59576	[REP345 269.000]	TO BUS	59580 [REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59546	BIL221 269.0	0.9198	0.9646 above .90
						59580	REP359 269.0	0.9041	0.9599 above .90
59578	[AUR355 269.000]	TO BUS	59606 [MTV420 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364 269.0	0.9416	0.9793 above .90
						59553	ALB262 269.0	0.9439	0.9815 above .90
						59573	HTC338 269.0	0.9496	0.9829 above .90
						59577	MTV351 269.0	0.9401	0.9824 above .90
						59606	MTV420 269.0	0.9399	0.9830 above .90
59590	[QUA377 269.000]	TO BUS	59601 [HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59427	COM381 269.0	0.9491	1.0049 above .90
59635	[FRP217 134.500]	TO BUS	59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217 134.5	1.0528	1.0258 above .90
									VOLTAGE LESS THAN 0.9500:
						59637	HUM308 134.5	0.9168	0.9949 above .90
						59639	DUN283 134.5	0.9151	1.0098 above .90
						59640	COL318 134.5	0.9027	0.9818 above .90
59637	[HUM308 134.500]	TO BUS	59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217 134.5	1.0530	1.0258 above .90
						59639	DUN283 134.5	1.0514	1.0098 above .90
									VOLTAGE LESS THAN 0.9500:
						59637	HUM308 134.5	0.9218	0.9949 above .90
						59640	COL318 134.5	0.9077	0.9818 above .90

2000 FALL PEAK ST. JOSEPH LIGHT AND POWER - AREA 679

NONE

VOLTAGE REPORT TABLE

2000 WINTER PEAK, MISSOURI PUBLIC SERVICE - AREA 540

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59285	[GRDWCTY269.000] TO BUS 59286 [GRDWST 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY269.0	1.0501		1.0218	LTC
59286	[GRDWST 269.000] TO BUS 59287 [MARTCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY269.0	1.0615		1.0218	LTC
59307	[NEVPLT 269.000] TO BUS 59308 [NEVADA 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59306	APCITY 269.0	0.9148		1.0047	Switch
				59307	NEVPLT 269.0	0.8629		1.0158	Switch
				59311	NEVJCT 269.0	0.8617		1.0150	Switch
				59312	LAMAR 269.0	0.8418		0.9986	Switch
59242	[CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59242	CLINTON5 161	0.9435		1.0335	Acceptable
				59301	CLNTPLT269.0	0.9378		1.0188	Acceptable
				59302	CLNTGRN269.0	0.9370		1.0186	Acceptable
				59303	CLINTON269.0	0.9375		1.0208	Acceptable
				59305	URICH 269.0	0.9495		1.0085	Acceptable
CONTINGENCY SPP-12									
59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59216	BUTLER_5 161	0.9375		1.0158	Acceptable
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1							
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00]	CKT 1							

2000 WINTER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59464	[BOL 73 5161.00] TO BUS 59528 [BOL 73 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59425	HER209 269.0	0.8877		0.9848	capacitor 69kv
				59432	BUF243J269.0	0.9019		0.9670	above .90
				59433	STRKAMO269.0	0.9361		0.9784	above .90
				59434	BUF409 269.0	0.8837		0.9589	capacitor 69kv
				59528	BOL 73 269.0	0.9087		1.0034	above .90
				59529	SED 80 269.0	0.9444		0.9872	above .90
				59545	FRP217 269.0	0.9445		0.9963	above .90
				59547	BUF243 269.0	0.9017		0.9668	above .90
				59567	BRT323 269.0	0.9258		0.9925	above .90
				59572	FGC333 269.0	0.9044		0.9673	above .90
				59575	BUF342 269.0	0.8929		0.9673	capacitor 69kv
				59576	REP345 269.0	0.9496		0.9730	above .90
				59580	REP359 269.0	0.9442		0.9650	above .90
				59584	BOL367 269.0	0.9094		0.9900	above .90
				59587	STR370 269.0	0.9257		0.9741	above .90
				59596	FRG397 269.0	0.9233		0.9740	above .90
				59612	BOL602 269.0	0.9132		0.9893	above .90
				59637	HUM308 134.5	0.9346		0.9707	above .90
				59640	COL318 134.5	0.9182		0.9549	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59478	[DAD368 5161.00] TO BUS 59585 [DAD368 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308 134.5	0.9425		0.9707	above .90
				59640	COL318 134.5	0.9263		0.9549	above .90
59479	[LAR382 5161.00] TO BUS 59480 [MON383 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59404	PUR390 269.0	0.9498		0.9711	above .90
59480	[MON383 5161.00] TO BUS 59591 [MON383 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59400	MON376J269.0	0.9341		0.9919	above .90
				59401	MON376 269.0	0.9331		0.9909	above .90
				59402	MON416J269.0	0.9295		0.9876	above .90
				59403	MON416 269.0	0.9293		0.9873	above .90
				59404	PUR390 269.0	0.9120		0.9711	above .90
				59422	GNB347 269.0	0.9459		0.9701	above .90
				59430	SAR362 269.0	0.9438		0.9809	above .90
				59544	WEN205 269.0	0.9498		0.9908	above .90

59487 [HOC404 5161.00] TO BUS 59601 [HOC404 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59420 WEL186 134.5	0.9388	0.9656 above .90
59528 [BOL 73 269.000] TO BUS 59575 [BUF342 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59432 BUF243J269.0	0.9099	0.9670 above .90
	59434 BUF409 269.0	0.8853	0.9589 capacitor 69kv
	59547 BUF243 269.0	0.9097	0.9668 above .90
	59572 FGC333 269.0	0.9138	0.9673 above .90
	59575 BUF342 269.0	0.8945	0.9673 capacitor 69kv
	59587 STR370 269.0	0.9425	0.9741 above .90
	59596 FRG397 269.0	0.9407	0.9740 above .90
59528 [BOL 73 269.000] TO BUS 59584 [BOL367 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59584 BOL367 269.0	0.9202	0.9900 above .90
	59612 BOL602 269.0	0.9237	0.9893 above .90
	59637 HUM308 134.5	0.9421	0.9707 above .90
	59640 COL318 134.5	0.9259	0.9549 above .90
59529 [SED 80 269.000] TO BUS 59596 [FRG397 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59432 BUF243J269.0	0.9457	0.9670 above .90
	59547 BUF243 269.0	0.9456	0.9668 above .90
	59572 FGC333 269.0	0.9449	0.9673 above .90
	59587 STR370 269.0	0.9474	0.9741 above .90
	59596 FRG397 269.0	0.9457	0.9740 above .90
59537 [AUR124 269.000] TO BUS 59578 [AUR355 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59424 RES364 269.0	0.9142	0.9833 above .90
	59552 LAW260 269.0	0.9371	0.9877 above .90
	59553 ALB262 269.0	0.9154	0.9845 above .90
	59573 HTC338 269.0	0.9242	0.9858 above .90
	59577 MTV351 269.0	0.9080	0.9852 above .90
	59578 AUR355 269.0	0.9007	0.9934 above .90
	59606 MTV420 269.0	0.9072	0.9858 above .90
59537 [AUR124 269.000] TO BUS 59611 [MAR437 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59546 BIL221 269.0	0.8927	0.9679 capacitor 69kv
	59576 REP345 269.0	0.9231	0.9730 above .90
	59580 REP359 269.0	0.9030	0.9650 above .90
	59611 MAR437 269.0	0.8802	0.9799 capacitor 69kv
59538 [DIA131 269.000] TO BUS 59595 [RNM393 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59422 GNB347 269.0	0.9457	0.9701 above .90
59542 [NIC170 269.000] TO BUS 59576 [REP345 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59546 BIL221 269.0	0.9261	0.9679 above .90
	59576 REP345 269.0	0.9126	0.9730 above .90
	59580 REP359 269.0	0.9129	0.9650 above .90
59543 [NEO184 269.000] TO BUS 59563 [LIN314 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59524 NEO 56 269.0	0.9422	0.9932 above .90
	59563 LIN314 269.0	0.9406	0.9951 above .90
59544 [WEN205 269.000] TO BUS 59582 [SAR362T269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59422 GNB347 269.0	0.9493	0.9701 above .90
	59430 SAR362 269.0	0.9487	0.9809 above .90
59544 [WEN205 269.000] TO BUS 59591 [MON383 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59422 GNB347 269.0	0.9436	0.9701 above .90
	59430 SAR362 269.0	0.9398	0.9809 above .90
	59544 WEN205 269.0	0.9450	0.9908 above .90
	59582 SAR362T269.0	0.9462	0.9870 above .90
59545 [FRP217 269.000] TO BUS 59585 [DAD368 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.9461	0.9707 above .90
	59640 COL318 134.5	0.9300	0.9549 above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59545	[FRP217 269.000]	TO BUS 59635	[FRP217 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59635	FRP217	134.5	0.8412	1.0195	provide solut.
						59637	HUM308	134.5	0.8435	0.9707	provide solut.
						59639	DUN283	134.5	0.8413	0.9942	provide solut.
						59640	COL318	134.5	0.8252	0.9549	provide solut.
						59641	CAP304	134.5	0.9445	1.0110	above .90
59546	[BIL221 269.000]	TO BUS 59611	[MAR437 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59546	BIL221	269.0	0.9337	0.9679	above .90
						59580	REP359	269.0	0.9370	0.9650	above .90
59568	[STK324 269.000]	TO BUS 59616	[STK631J269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59568	STK324	269.0	0.8998	1.0007	capacitor 69kv
						59637	HUM308	134.5	0.9247	0.9707	above .90
						59638	STK324	134.5	0.9240	1.0332	above .90
						59640	COL318	134.5	0.9087	0.9549	above .90
						59641	CAP304	134.5	0.9239	1.0110	above .90
59568	[STK324 269.000]	TO BUS 59638	[STK324 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9254	0.9707	above .90
						59638	STK324	134.5	0.9248	1.0332	above .90
						59640	COL318	134.5	0.9094	0.9549	above .90
						59641	CAP304	134.5	0.9247	1.0110	above .90
59570	[OZK330 269.000]	TO BUS 59604	[BHU415 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59570	OZK330	269.0	0.9107	1.0094	above .90
						59609	OZK434	269.0	0.9141	1.0055	above .90
59572	[FGC333 269.000]	TO BUS 59596	[FRG397 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59432	BUF243J	269.0	0.9458	0.9670	above .90
						59547	BUF243	269.0	0.9457	0.9668	above .90
						59572	FGC333	269.0	0.9455	0.9673	above .90
59576	[REP345 269.000]	TO BUS 59580	[REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59546	BIL221	269.0	0.9263	0.9679	above .90
						59580	REP359	269.0	0.9132	0.9650	above .90
59578	[AUR355 269.000]	TO BUS 59606	[MTV420 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364	269.0	0.9478	0.9833	above .90
						59553	ALB262	269.0	0.9491	0.9845	above .90
						59577	MTV351	269.0	0.9454	0.9852	above .90
						59606	MTV420	269.0	0.9452	0.9858	above .90
59590	[QUA377 269.000]	TO BUS 59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59427	COM381	269.0	0.9407	1.0032	above .90
						59579	COM381T	269.0	0.9456	1.0078	above .90
						59590	QUA377	269.0	0.9441	1.0090	above .90
59605	[STK418 269.000]	TO BUS 59614	[SK631CJ269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59568	STK324	269.0	0.9468	1.0007	above .90
						59614	SK631CJ	269.0	0.9465	1.0013	above .90
						59616	STK631J	269.0	0.9469	1.0009	above .90
						59637	HUM308	134.5	0.9469	0.9707	above .90
						59640	COL318	134.5	0.9310	0.9549	above .90
59635	[FRP217 134.500]	TO BUS 59639	[DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217	134.5	1.0558	1.0195	above .90
					VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.8425	0.9707	provide solut.
						59639	DUN283	134.5	0.8401	0.9942	provide solut.
						59640	COL318	134.5	0.8241	0.9549	provide solut.
						59641	CAP304	134.5	0.9439	1.0110	above .90
59637	[HUM308 134.500]	TO BUS 59639	[DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217	134.5	1.0557	1.0195	above .90
						59639	DUN283	134.5	1.0541	0.9942	above .90
					VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.8528	0.9707	provide solut.
						59640	COL318	134.5	0.8346	0.9549	provide solut.
						59641	CAP304	134.5	0.9489	1.0110	above .90
59637	[HUM308 134.500]	TO BUS 59641	[CAP304 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9256	0.9707	above .90
						59640	COL318	134.5	0.9096	0.9549	above .90
59638	[STK324 134.500]	TO BUS 59641	[CAP304 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9238	0.9707	above .90
						59640	COL318	134.5	0.9079	0.9549	above .90
						59641	CAP304	134.5	0.9224	1.0110	above .90

**VOLTAGE REPORT TABLE**

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59497 [RVS438 5161.00] TO BUS 52672 [TABLE R5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59474 OZD312 5 161 0.9464	0.9880 above .90
	59475 BRN331 5 161 0.9439	0.9856 above .90
	59482 HOL387 5 161 0.9443	0.9894 above .90
	59488 BRN412 5 161 0.9439	0.9855 above .90
	59489 BRN413 5 161 0.9425	0.9885 above .90
	59492 RDS424 5 161 0.9478	0.9805 above .90
	59495 GRT433 5 161 0.9430	0.9868 above .90
	59497 RVS438 5 161 0.9428	0.9912 above .90
59605 [STK418 269.000] TO BUS 96118 [5STKAEC 161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59568 STK324 269.0 0.9470	1.0007 above .90
	59605 STK418 269.0 0.9466	1.0022 above .90
	59614 SK631CJ269.0 0.9466	1.0013 above .90
	59616 STK631J269.0 0.9471	1.0009 above .90
	59637 HUM308 134.5 0.9470	0.9707 above .90
	59640 COL318 134.5 0.9311	0.9549 above .90

**2000 WINTER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**2001 APRIL MINIMUM, 540**

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
BASE CASE VOLTAGE GREATER THAN 1.0500:	59207 ARCHIE 5 161 1.0556	1.0556 Acceptable
	59208 NEVADA 5 161 1.0522	1.0522 Acceptable
	59209 SEDALIA5 161 1.0575	1.0575 Acceptable
	59210 MARTCTY5 161 1.0501	1.0501 Acceptable
	59216 BUTLER_5 161 1.0548	1.0548 Acceptable
	59217 WINDSR 5 161 1.0652	1.0652 Acceptable
	59234 WAFB 5 161 1.0515	1.0515 Acceptable
	59239 HSNVL 5 161 1.0520	1.0520 Acceptable
	59240 ADRIAN 5 161 1.0552	1.0552 Acceptable
	59241 SEDEAST5 161 1.0602	1.0602 Acceptable
	59242 CLINTON5 161 1.0710	1.0710 Acceptable

**2001 APRIL MINIMUM, 544**

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59481 [MON383 7345.00] TO BUS 53140 [FLINTCR7345.00] CKT 1 VOLTAGE GREATER THAN 1.0500:	59481 MON383 7 345 1.0658	1.0418 above .90

**2001 APRIL MINIMUM, 679**

**NONE**

**2001 FALL PEAK, 540**

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59307 [NEVPLT 269.000] TO BUS 59308 [NEVADA 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59306 APCITY 269.0 0.9201	1.0093 Switch
	59307 NEVPLT 269.0 0.8717	1.0214 Switch
	59311 NEVJCT 269.0 0.8707	1.0206 Switch
	59312 LAMAR 269.0 0.8520	1.0051 Switch
59308 [NEVADA 269.000] TO BUS 59309 [METZ 269.000] CKT 1 VOLTAGE GREATER THAN 1.0500:	59159 NEVADA#113.2 1.0536	1.0236 LTC
	59307 NEVPLT 269.0 1.0509	1.0214 LTC
	59308 NEVADA 269.0 1.0536	1.0236 LTC
	59311 NEVJCT 269.0 1.0502	1.0206 LTC
59242 [CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59301 CLNTPLT269.0 0.9459	1.0177 Acceptable
	59302 CLNTGRN269.0 0.9451	1.0176 Acceptable
	59303 CLINTON269.0 0.9456	1.0195 Acceptable

VOLTAGE REPORT TABLE

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
CONTINGENCY SPP-12		
59207 [ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59216 BUTLER_5 161 0.9416	1.0170 Acceptable
59216 [BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1		
59208 [NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1		

2001 FALL PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59464 [BOL 73 5161.00] TO BUS 59528 [BOL 73 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59425 HER209 269.0 0.9336	0.9839 above .90
	59432 BUF243J269.0 0.9414	0.9731 above .90
	59434 BUF409 269.0 0.9292	0.9665 above .90
	59528 BOL 73 269.0 0.9480	0.9974 above .90
	59547 BUF243 269.0 0.9412	0.9729 above .90
	59572 FGC333 269.0 0.9431	0.9735 above .90
	59575 BUF342 269.0 0.9356	0.9727 above .90
	59584 BOL367 269.0 0.9487	0.9901 above .90
59478 [DAD368 5161.00] TO BUS 59493 [BOL431 5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59434 BUF409 269.0 0.9451	0.9665 above .90
59480 [MON383 5161.00] TO BUS 59591 [MON383 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59400 MON376J269.0 0.9297	0.9835 above .90
	59401 MON376 269.0 0.9286	0.9825 above .90
	59402 MON416J269.0 0.9250	0.9791 above .90
	59403 MON416 269.0 0.9247	0.9788 above .90
	59404 PUR390 269.0 0.9076	0.9627 above .90
	59405 MON352J269.0 0.9497	1.0022 above .90
	59406 MON352 269.0 0.9496	1.0022 above .90
	59407 MON311J269.0 0.9491	1.0017 above .90
	59408 MON311 269.0 0.9490	1.0016 above .90
59528 [BOL 73 269.000] TO BUS 59575 [BUF342 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59432 BUF243J269.0 0.9371	0.9731 above .90
	59434 BUF409 269.0 0.9198	0.9665 above .90
	59547 BUF243 269.0 0.9370	0.9729 above .90
	59572 FGC333 269.0 0.9401	0.9735 above .90
	59575 BUF342 269.0 0.9262	0.9727 above .90
59545 [FRP217 269.000] TO BUS 59635 [FRP217 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59635 FRP217 134.5 0.9080	1.0295 above .90
	59637 HUM308 134.5 0.9105	0.9949 above .90
	59639 DUN283 134.5 0.9083	1.0113 above .90
	59640 COL318 134.5 0.8964	0.9818 provide solut.
59546 [BIL221 269.000] TO BUS 59580 [REP359 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59580 REP359 269.0 0.9369	0.9856 above .90
59568 [STK324 269.000] TO BUS 59616 [STR631J269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59568 STK324 269.0 0.9481	1.0002 above .90
59570 [OZK330 269.000] TO BUS 59604 [BHJ415 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59570 OZK330 269.0 0.9181	1.0111 above .90
	59609 OZK434 269.0 0.9211	1.0071 above .90
59590 [QUA377 269.000] TO BUS 59601 [HOC404 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59427 COM381 269.0 0.9475	1.0048 above .90
59635 [FRP217 134.500] TO BUS 59639 [DUN283 134.500] CKT 1 VOLTAGE GREATER THAN 1.0500:	59635 FRP217 134.5 1.0548	1.0295 above .90
	VOLTAGE LESS THAN 0.9500:	
	59637 HUM308 134.5 0.9095	0.9949 above .90
	59639 DUN283 134.5 0.9072	1.0113 above .90
	59640 COL318 134.5 0.8954	0.9818 above .90
59637 [HUM308 134.500] TO BUS 59639 [DUN283 134.500] CKT 1 VOLTAGE GREATER THAN 1.0500:	59635 FRP217 134.5 1.0548	1.0295 above .90
	59639 DUN283 134.5 1.0526	1.0113 above .90
	VOLTAGE LESS THAN 0.9500:	
	59637 HUM308 134.5 0.9175	0.9949 above .90
	59640 COL318 134.5 0.9034	0.9818 above .90

VOLTAGE REPORT TABLE

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59478 [DAD368 5161.00] TO BUS 96101 [5MORGAN 161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59434 BUF409 269.0 0.9417	0.9665 above .90
	59575 BUF342 269.0 0.9481	0.9727 above .90
<b>2001 FALL PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679</b>	<b>NONE</b>	
<b>2001 SUMMER PEAK, MISSOURI PUBLIC SERVICE - AREA 540</b>		
( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59207 [ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59159 NEVADA#113.2 0.9442	1.0118 Acceptable
	59208 NEVADA 5 161 0.9215	0.9800 Acceptable
	59216 BUTLER_5 161 0.9172	0.9969 Acceptable
	59240 ADRIAN 5 161 0.9159	1.0049 Acceptable
	59306 APCITY 269.0 0.9443	0.9932 Acceptable
	59307 NEVPLT 269.0 0.9408	1.0080 Acceptable
	59308 NEVADA 269.0 0.9442	1.0118 Acceptable
	59309 METZ 269.0 0.9214	0.9907 Acceptable
	59310 3M 269.0 0.9147	0.9845 Acceptable
	59311 NEVJCT 269.0 0.9390	1.0064 Acceptable
	59312 LAMAR 269.0 0.9093	0.9790 Acceptable
59208 [NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59208 NEVADA 5 161 0.9388	0.9800 Acceptable
	59309 METZ 269.0 0.9418	0.9907 Acceptable
	59310 3M 269.0 0.9353	0.9845 Acceptable
	59312 LAMAR 269.0 0.9299	0.9790 Acceptable
59208 [NEVADA 5161.00] TO BUS 59308 [NEVADA 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59310 3M 269.0 0.9461	0.9845 Generation
	59312 LAMAR 269.0 0.9406	0.9790 Generation
59209 [SEDALIA5161.00] TO BUS 59271 [SEDN 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59276 COLECMP269.0 0.9366	0.9881 Acceptable
	59277 WARSAW 269.0 0.9223	0.9745 Acceptable
59209 [SEDALIA5161.00] TO BUS 59272 [SEDS 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59277 WARSAW 269.0 0.9471	0.9745 Shift Load-161
59216 [BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59208 NEVADA 5 161 0.9308	0.9800 Acceptable
	59216 BUTLER_5 161 0.9294	0.9969 Acceptable
	59309 METZ 269.0 0.9322	0.9907 Acceptable
	59310 3M 269.0 0.9256	0.9845 Acceptable
	59311 NEVJCT 269.0 0.9495	1.0064 Acceptable
	59312 LAMAR 269.0 0.9202	0.9790 Acceptable
59225 [PHILL 5161.00] TO BUS 59280 [PHILL 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59154 RGREEN#313.2 0.9252	1.0090 Generation
	59279 RGREEN 269.0 0.9252	1.0090 Generation
	59280 PHILL 269.0 0.9246	1.0111 Generation
	59288 RGAFB 269.0 0.9367	0.9868 Generation
	59289 BELTON 269.0 0.9300	0.9836 Generation
	59290 BELTONS269.0 0.9195	0.9792 Generation
	59291 FREEMAN269.0 0.9342	0.9871 Generation
59239 [HSNVL 5161.00] TO BUS 59295 [HSNVL 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59290 BELTONS269.0 0.9487	0.9792 Generation
	59291 FREEMAN269.0 0.9298	0.9871 Generation
	59292 ANCONDA269.0 0.9266	1.0089 Generation
	59293 HSNVLW 269.0 0.9265	1.0098 Generation
	59294 HSNVLS 269.0 0.9266	1.0122 Generation
	59295 HSNVL 269.0 0.9276	1.0162 Generation
	59296 HSNVLSW269.0 0.9286	1.0120 Generation
	59297 HSNVLN 269.0 0.9313	1.0063 Generation
	59298 GRDNCTY269.0 0.9259	1.0095 Generation
	59299 SNCLRPS269.0 0.9259	1.0095 Generation

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59260	[RNRDGE 269.000]	TO BUS 59261	[STALEY 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59260	RNRDGE	269.0	1.0516	1.0125	LTC
59279	[RGREEN 269.000]	TO BUS 59280	[PHILL 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59154	RGREEN#313.2	0.9412	1.0090	Generation	
						59279	RGREEN	269.0	0.9412	1.0090	Generation
59280	[PHILL 269.000]	TO BUS 59290	[BELTONS269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59288	RGAFB	269.0	0.9455	0.9868	Acceptable
						59289	BELTON	269.0	0.9391	0.9836	Acceptable
						59290	BELTONS	269.0	0.9297	0.9792	Acceptable
59284	[GRDVWTP269.000]	TO BUS 59288	[RGAFB 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59288	RGAFB	269.0	0.9228	0.9868	Generation
						59289	BELTON	269.0	0.9234	0.9836	Generation
						59290	BELTONS	269.0	0.9255	0.9792	Generation
						59291	FREEMAN	269.0	0.9468	0.9871	Generation
59285	[GRDWCTY269.000]	TO BUS 59286	[GRDWST 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59286	GRDWST	269.0	1.0531	1.0088	LTC
						59287	MARTCTY	269.0	1.0560	1.0160	LTC
59286	[GRDWST 269.000]	TO BUS 59287	[MARTCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY	269.0	1.0755	1.0160	LTC
59288	[RGAFB 269.000]	TO BUS 59289	[BELTON 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59289	BELTON	269.0	0.9340	0.9836	Acceptable
						59290	BELTONS	269.0	0.9351	0.9792	Acceptable
59289	[BELTON 269.000]	TO BUS 59290	[BELTONS269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59290	BELTONS	269.0	0.9438	0.9792	Acceptable
59293	[HSNVLW 269.000]	TO BUS 59294	[HSNVLS 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN	269.0	0.9460	0.9871	Acceptable
						59292	ANCONDA	269.0	0.9413	1.0089	Acceptable
						59293	HSNVLW	269.0	0.9411	1.0098	Acceptable
59294	[HSNVLS 269.000]	TO BUS 59295	[HSNVL 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN	269.0	0.9317	0.9871	Acceptable
						59292	ANCONDA	269.0	0.9187	1.0089	Acceptable
						59293	HSNVLW	269.0	0.9182	1.0098	Acceptable
						59294	HSNVLS	269.0	0.9174	1.0122	Acceptable
59307	[NEVPLT 269.000]	TO BUS 59308	[NEVADA 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59304	URICHTP	269.0	0.8716	1.0018	Switches
						59305	URICH	269.0	0.8686	0.9992	Switches
						59306	APCITY	269.0	0.7779	0.9932	Switches
						59307	NEVPLT	269.0	0.6570	1.0080	Switches
						59311	NEVJCT	269.0	0.6543	1.0064	Switches
						59312	LAMAR	269.0	0.6113	0.9790	Switches
59308	[NEVADA 269.000]	TO BUS 59309	[METZ 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0745	1.0118	LTC	
						59307	NEVPLT	269.0	1.0699	1.0080	LTC
						59308	NEVADA	269.0	1.0745	1.0118	LTC
						59311	NEVJCT	269.0	1.0685	1.0064	LTC
59309	[METZ 269.000]	TO BUS 59310	[3M 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0604	1.0118	LTC	
						59307	NEVPLT	269.0	1.0560	1.0080	LTC
						59308	NEVADA	269.0	1.0604	1.0118	LTC
						59309	METZ	269.0	1.0552	0.9907	LTC
						59311	NEVJCT	269.0	1.0546	1.0064	LTC
59242	[CLINTON5161.00]	TO BUS 96071	[5CLINTN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59242	CLINTON5	161	0.8363	1.0221	Accept Risk
						59300	POSTOAK	269.0	0.9033	1.0102	Accept Risk
						59301	CLNTPLT	269.0	0.8524	1.0165	Accept Risk
						59302	CLNTGRN	269.0	0.8509	1.0164	Accept Risk
						59303	CLINTON	269.0	0.8519	1.0201	Accept Risk
						59304	URICHTP	269.0	0.8755	1.0018	Accept Risk
						59305	URICH	269.0	0.8726	0.9992	Accept Risk
						59306	APCITY	269.0	0.9042	0.9932	Accept Risk
						59312	LAMAR	269.0	0.9461	0.9790	Accept Risk



VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
CONTINGENCY SPP-12									
59207	[ARCHIE 5161.00] TO BUS 59240	[ADRIAN 5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59208	NEVADA 5	161	0.9292	0.9800	Acceptable
59216	[BUTLER_5161.00] TO BUS 59240	[ADRIAN 5161.00]	CKT 1	59216	BUTLER_5	161	0.9106	0.9969	Acceptable
59208	[NEVADA 5161.00] TO BUS 59216	[BUTLER_5161.00]	CKT 1	59307	NEVPLT	269.0	0.9496	1.0080	Acceptable
				59309	METZ	269.0	0.9305	0.9907	Acceptable
				59310	3M	269.0	0.9239	0.9845	Acceptable
				59311	NEVJCT	269.0	0.9479	1.0064	Acceptable
				59312	LAMAR	269.0	0.9184	0.9790	Acceptable

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(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
BASE CASE									
			VOLTAGE LESS THAN 0.9500:	59416	CHE299T1	134.5	0.9412	0.9412	above .90
				59417	CHE299	134.5	0.9382	0.9382	above .90
				59418	CHE300	134.5	0.9407	0.9407	above .90
				59419	TWN388	134.5	0.9399	0.9399	above .90
				59420	WEL186	134.5	0.9182	0.9182	above .90
59433	[STRKAMO269.000] TO BUS 59604	[BHJ415 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59433	STRKAMO2	269.0	0.9462	0.9685	above .90
59436	[CUPTAP 269.000] TO BUS 59585	[DAD368 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59436	CUPTAP	269.0	0.9464	0.9967	above .90
				59437	CUPSUB	269.0	0.9458	0.9961	above .90
59464	[BOL 73 5161.00] TO BUS 59528	[BOL 73 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59425	HER209	269.0	0.8959	0.9720	capacitor 69kv
				59432	BUF243J	269.0	0.9109	0.9602	above .90
				59433	STRKAMO	269.0	0.9372	0.9685	above .90
				59434	BUF409	269.0	0.8961	0.9535	capacitor 69kv
				59528	BOL 73	269.0	0.9170	0.9913	above .90
				59529	SED 80	269.0	0.9449	0.9762	above .90
				59545	FRP217	269.0	0.9461	0.9855	above .90
				59547	BUF243	269.0	0.9107	0.9600	above .90
				59567	BRT323	269.0	0.9301	0.9811	above .90
				59572	FGC333	269.0	0.9130	0.9605	above .90
				59575	BUF342	269.0	0.9037	0.9606	above .90
				59584	BOL367	269.0	0.9189	0.9814	above .90
				59587	STR370	269.0	0.9289	0.9648	above .90
				59596	FRG397	269.0	0.9273	0.9649	above .90
				59612	BOL602	269.0	0.9217	0.9806	above .90
				59637	HUM308	134.5	0.9432	0.9699	above .90
				59640	COL318	134.5	0.9255	0.9526	above .90
				59691	WIL369	269.0	0.9483	0.9722	above .90
59478	[DAD368 5161.00] TO BUS 59585	[DAD368 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59436	CUPTAP	269.0	0.9500	0.9967	above .90
				59437	CUPSUB	269.0	0.9494	0.9961	above .90
				59637	HUM308	134.5	0.9467	0.9699	above .90
				59640	COL318	134.5	0.9292	0.9526	above .90
				59691	WIL369	269.0	0.9498	0.9722	above .90
59479	[LAR382 5161.00] TO BUS 59480	[MON383 5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59404	PUR390	269.0	0.9351	0.9645	above .90
				59468	AUR124	5 161	0.9480	0.9692	above .90
				59480	MON383	5 161	0.9351	0.9644	above .90
59480	[MON383 5161.00] TO BUS 59591	[MON383 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59400	MON376J	269.0	0.9388	0.9916	above .90
				59401	MON376	269.0	0.9376	0.9905	above .90
				59402	MON416J	269.0	0.9331	0.9863	above .90
				59403	MON416	269.0	0.9328	0.9860	above .90
				59404	PUR390	269.0	0.9097	0.9645	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59487	[HOC404 5161.00]	TO BUS 59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59416	CHE299T134.5			0.9072	0.9412 above .90
						59417	CHE299 134.5			0.9042	0.9382 above .90
						59418	CHE300 134.5			0.9067	0.9407 above .90
						59419	TWN388 134.5			0.9059	0.9399 above .90
						59420	WEL186 134.5			0.8837	0.9182 provide solut.
59528	[BOL 73 269.000]	TO BUS 59575	[BUF342 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59432	BUF243J269.0			0.9142	0.9602 above .90
						59433	STRKAMO269.0			0.9471	0.9685 above .90
						59434	BUF409 269.0			0.8939	0.9535 capacitor 69kv
						59547	BUF243 269.0			0.9140	0.9600 above .90
						59572	FGC333 269.0			0.9176	0.9605 above .90
						59575	BUF342 269.0			0.9015	0.9606 above .90
						59587	STR370 269.0			0.9398	0.9648 above .90
						59596	FRG397 269.0			0.9386	0.9649 above .90
59528	[BOL 73 269.000]	TO BUS 59584	[BOL367 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59584	BOL367 269.0			0.9315	0.9814 above .90
						59612	BOL602 269.0			0.9337	0.9806 above .90
						59637	HUM308 134.5			0.9497	0.9699 above .90
						59640	COL318 134.5			0.9322	0.9526 above .90
59529	[SED 80 269.000]	TO BUS 59596	[FRG397 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59587	STR370 269.0			0.9425	0.9648 above .90
						59596	FRG397 269.0			0.9413	0.9649 above .90
59537	[AUR124 269.000]	TO BUS 59578	[AUR355 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59577	MTV351 269.0			0.9440	0.9792 above .90
						59578	AUR355 269.0			0.9343	0.9906 above .90
						59606	MTV420 269.0			0.9429	0.9800 above .90
59538	[DIA131 269.000]	TO BUS 59595	[RNM393 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59422	GNB347 269.0			0.9451	0.9807 above .90
59541	[RIV167 269.000]	TO BUS 59602	[RIV406 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59420	WEL186 134.5			0.8979	0.9182 provide solut.
59543	[NEO184 269.000]	TO BUS 59563	[LIN314 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59524	NEO 56 269.0			0.9326	0.9835 above .90
						59563	LIN314 269.0			0.9308	0.9852 above .90
59545	[FRP217 269.000]	TO BUS 59635	[FRP217 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59635	FRP217 134.5			0.8579	1.0129 provide solut.
						59637	HUM308 134.5			0.8605	0.9699 provide solut.
						59639	DUN283 134.5			0.8585	0.9908 provide solut.
						59640	COL318 134.5			0.8419	0.9526 provide solut.
						59641	CAP304 134.5			0.9413	0.9998 above .90
59546	[BIL221 269.000]	TO BUS 59580	[REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59576	REP345 269.0			0.9260	0.9724 above .90
						59580	REP359 269.0			0.9097	0.9681 above .90
59568	[STK324 269.000]	TO BUS 59616	[STK631J269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59568	STK324 269.0			0.9141	0.9837 above .90
						59637	HUM308 134.5			0.9395	0.9699 above .90
						59638	STK324 134.5			0.9386	1.0162 above .90
						59640	COL318 134.5			0.9221	0.9526 above .90
						59641	CAP304 134.5			0.9385	0.9998 above .90
59568	[STK324 269.000]	TO BUS 59638	[STK324 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308 134.5			0.9400	0.9699 above .90
						59638	STK324 134.5			0.9392	1.0162 above .90
						59640	COL318 134.5			0.9226	0.9526 above .90
						59641	CAP304 134.5			0.9390	0.9998 above .90
59570	[OZK330 269.000]	TO BUS 59604	[BHV415 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59570	OZK330 269.0			0.8844	0.9978 provide solut.
						59609	OZK434 269.0			0.8893	0.9946 provide solut.
59590	[QUA377 269.000]	TO BUS 59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59427	COM381 269.0			0.9111	0.9919 above .90
						59579	COM381T269.0			0.9193	0.9993 above .90
						59590	QUA377 269.0			0.9173	1.0009 above .90

**VOLTAGE REPORT TABLE**

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT		
59605	[STK418 269.000]	TO BUS	59614	[SK631CJ269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59549	ARC250	269.0	0.9367	0.9803	above .90
								59550	GLD251	269.0	0.9486	0.9730	above .90
								59568	STK324	269.0	0.9302	0.9837	above .90
								59598	LKW400	269.0	0.9437	0.9735	above .90
								59613	GRN614	269.0	0.9434	0.9762	above .90
								59614	SK631CJ269.0		0.9297	0.9842	above .90
								59616	STK631J269.0		0.9303	0.9838	above .90
								59637	HUM308	134.5	0.9446	0.9699	above .90
								59640	COL318	134.5	0.9271	0.9526	above .90
59635	[FRP217 134.500]	TO BUS	59639	[DUN283 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637	HUM308	134.5	0.8596	0.9699	provide solut.
								59639	DUN283	134.5	0.8575	0.9908	provide solut.
								59640	COL318	134.5	0.8410	0.9526	provide solut.
								59641	CAP304	134.5	0.9407	0.9998	above .90
59637	[HUM308 134.500]	TO BUS	59639	[DUN283 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637	HUM308	134.5	0.8654	0.9699	provide solut.
								59640	COL318	134.5	0.8468	0.9526	provide solut.
								59641	CAP304	134.5	0.9434	0.9998	above .90
59637	[HUM308 134.500]	TO BUS	59641	[CAP304 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637	HUM308	134.5	0.9400	0.9699	above .90
								59640	COL318	134.5	0.9226	0.9526	above .90
59638	[STK324 134.500]	TO BUS	59641	[CAP304 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637	HUM308	134.5	0.9384	0.9699	above .90
								59640	COL318	134.5	0.9210	0.9526	above .90
								59641	CAP304	134.5	0.9369	0.9998	above .90
59478	[DAD368 5161.00]	TO BUS	96101	[5MORGAN 161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59478	DAD368	5 161	0.9496	0.9705	above .90
59497	[RVS438 5161.00]	TO BUS	52672	[TABLE R5161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59473	RDS295	5 161	0.9346	0.9666	above .90
								59474	OZD312	5 161	0.9319	0.9755	above .90
								59475	BRN331	5 161	0.9295	0.9732	above .90
								59482	HOL387	5 161	0.9301	0.9776	above .90
								59488	BRN412	5 161	0.9294	0.9731	above .90
								59489	BRN413	5 161	0.9284	0.9770	above .90
								59492	RDS424	5 161	0.9324	0.9665	above .90
								59495	GRT433	5 161	0.9287	0.9749	above .90
								59497	RVS438	5 161	0.9287	0.9800	above .90
59605	[STK418 269.000]	TO BUS	96118	[5STKAEC 161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59549	ARC250	269.0	0.9369	0.9803	above .90
								59550	GLD251	269.0	0.9486	0.9730	above .90
								59568	STK324	269.0	0.9304	0.9837	above .90
								59598	LKW400	269.0	0.9438	0.9735	above .90
								59605	STK418	269.0	0.9299	0.9851	above .90
								59613	GRN614	269.0	0.9435	0.9762	above .90
								59614	SK631CJ269.0		0.9299	0.9842	above .90
								59616	STK631J269.0		0.9304	0.9838	above .90
								59637	HUM308	134.5	0.9447	0.9699	above .90
								59640	COL318	134.5	0.9272	0.9526	above .90

**2001 SUMMER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**2001 SPRING PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT		
59307	[NEVPLT 269.000]	TO BUS	59308	[NEVADA 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59306	APCITY	269.0	0.9094	1.0017	Switch
								59307	NEVPLT	269.0	0.8550	1.0108	Switch
								59311	NEVJCT	269.0	0.8538	1.0099	Switch
								59312	LAMAR	269.0	0.8330	0.9928	Switch

VOLTAGE REPORT TABLE

( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT
59242 [CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59242 CLINTON5 161	0.9386	1.0336 Acceptable
		59301 CLNTPLT269.0	0.9329	1.0182 Acceptable
		59302 CLNTGRN269.0	0.9320	1.0180 Acceptable
		59303 CLINTON269.0	0.9326	1.0203 Acceptable
		59304 URICHTP269.0	0.9458	1.0081 Acceptable
		59305 URICH 269.0	0.9441	1.0065 Acceptable
CONTINGENCY SPP-12				
59207 [ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59216 BUTLER_5 161	0.9279	1.0082 Acceptable
59216 [BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1				
59208 [NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1				

2001 SPRING PEAK -EMPIRE DISTRICT ELECTRIC - AREA 544

( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT
59464 [BOL 73 5161.00] TO BUS 59528 [BOL 73 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59425 HER209 269.0	0.9399	0.9877 above .90
		59432 BUF243J269.0	0.9473	0.9769 above .90
		59434 BUF409 269.0	0.9384	0.9733 above .90
		59547 BUF243 269.0	0.9471	0.9768 above .90
		59572 FGC333 269.0	0.9487	0.9770 above .90
		59575 BUF342 269.0	0.9429	0.9777 above .90
59480 [MON383 5161.00] TO BUS 59591 [MON383 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59400 MON376J269.0	0.9486	0.9830 above .90
		59401 MON376 269.0	0.9476	0.9821 above .90
		59402 MON416J269.0	0.9442	0.9788 above .90
		59403 MON416 269.0	0.9439	0.9785 above .90
		59404 PUR390 269.0	0.9262	0.9617 above .90
59528 [BOL 73 269.000] TO BUS 59575 [BUF342 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59432 BUF243J269.0	0.9460	0.9769 above .90
		59434 BUF409 269.0	0.9328	0.9733 above .90
		59547 BUF243 269.0	0.9459	0.9768 above .90
		59572 FGC333 269.0	0.9485	0.9770 above .90
		59575 BUF342 269.0	0.9374	0.9777 above .90
59535 [NIX114 269.000] TO BUS 59604 [BHJ415 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59580 REP359 269.0	0.9446	0.9647 above .90
59537 [AUR124 269.000] TO BUS 59578 [AUR355 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59424 RES364 269.0	0.8976	0.9787 capacitor 69kv
		59552 LAW260 269.0	0.9259	0.9845 above .90
		59553 ALB262 269.0	0.9006	0.9814 above .90
		59573 HTC338 269.0	0.9109	0.9827 above .90
		59577 MTV351 269.0	0.8918	0.9823 capacitor 69kv
		59578 AUR355 269.0	0.8830	0.9916 capacitor 69kv
		59606 MTV420 269.0	0.8907	0.9829 capacitor 69kv
59537 [AUR124 269.000] TO BUS 59611 [MAR437 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59546 BIL221 269.0	0.8999	0.9682 capacitor 69kv
		59576 REP345 269.0	0.9277	0.9731 above .90
		59580 REP359 269.0	0.9083	0.9647 above .90
		59611 MAR437 269.0	0.8894	0.9800 capacitor 69kv
59538 [DIA131 269.000] TO BUS 59595 [RNM393 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59422 GNB347 269.0	0.9493	0.9731 above .90
59542 [NIC170 269.000] TO BUS 59576 [REP345 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59546 BIL221 269.0	0.9245	0.9682 above .90
		59576 REP345 269.0	0.9100	0.9731 above .90
		59580 REP359 269.0	0.9102	0.9647 above .90
59543 [NEO184 269.000] TO BUS 59563 [LIN314 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59524 NEO 56 269.0	0.9442	0.9941 above .90
		59563 LIN314 269.0	0.9427	0.9959 above .90
59545 [FRP217 269.000] TO BUS 59635 [FRP217 134.500] CKT 1	VOLTAGE LESS THAN 0.9500:	59640 COL318 134.5	0.9434	1.0003 above .90
59546 [BIL221 269.000] TO BUS 59611 [MAR437 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59546 BIL221 269.0	0.9333	0.9682 above .90
		59580 REP359 269.0	0.9361	0.9647 above .90
59570 [OZK330 269.000] TO BUS 59604 [BHJ415 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59570 OZK330 269.0	0.9151	1.0129 above .90
		59609 OZK434 269.0	0.9186	1.0089 above .90

**VOLTAGE REPORT TABLE**

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59576	[REP345 269.000] TO BUS 59580 [REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59546	BIL221	269.0	0.9247			0.9682	above .90
				59580	REP359	269.0	0.9105			0.9647	above .90
59577	[MTV351 269.000] TO BUS 59606 [MTV420 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364	269.0	0.9493			0.9787	above .90
				59577	MTV351	269.0	0.9492			0.9823	above .90
59578	[AUR355 269.000] TO BUS 59606 [MTV420 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364	269.0	0.9386			0.9787	above .90
				59553	ALB262	269.0	0.9414			0.9814	above .90
				59573	HTC338	269.0	0.9473			0.9827	above .90
				59577	MTV351	269.0	0.9373			0.9823	above .90
				59606	MTV420	269.0	0.9371			0.9829	above .90
59590	[QUA377 269.000] TO BUS 59601 [HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59427	COM381	269.0	0.9475			1.0017	above .90
59635	[FRP217 134.500] TO BUS 59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217	134.5	1.0545			1.0329	above .90
			VOLTAGE LESS THAN 0.9500:	59640	COL318	134.5	0.9424			1.0003	above .90
59637	[HUM308 134.500] TO BUS 59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217	134.5	1.0548			1.0329	above .90
				59639	DUN283	134.5	1.0532			1.0205	above .90
			VOLTAGE LESS THAN 0.9500:	59640	COL318	134.5	0.9467			1.0003	above .90
59478	[DAD368 5161.00] TO BUS 96101 [5MORGAN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59434	BUF409	269.0	0.9492			0.9733	above .90

**2001 SPRING PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679**

**NONE**

**2001 WINTER PEAK, MISSOURI PUBLIC SERVICE - AREA 540**

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59286	[GRDWST 269.000] TO BUS 59287 [MARTCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY269.0	1.0542				1.0214	LTC
59307	[NEVPLT 269.000] TO BUS 59308 [NEVADA 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59306	APCITY	269.0	0.9119			1.0074	Switch
				59307	NEVPLT	269.0	0.8578			1.0160	Switch
				59311	NEVJCT	269.0	0.8567			1.0151	Switch
				59312	LAMAR	269.0	0.8359			0.9981	Switch
59308	[NEVADA 269.000] TO BUS 59309 [METZ 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0501				1.0183	LTC
				59308	NEVADA	269.0	1.0501			1.0183	LTC
59242	[CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59242	CLINTON5	161	0.9270			1.0298	Acceptable
				59301	CLNTPLT	269.0	0.9300			1.0199	Acceptable
				59302	CLNTGRN	269.0	0.9292			1.0198	Acceptable
				59303	CLINTON	269.0	0.9297			1.0221	Acceptable
				59304	URICHTP	269.0	0.9445			1.0120	Acceptable
				59305	URICH	269.0	0.9427			1.0104	Acceptable
CONTINGENCY SPP-12											
59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59216	BUTLER_5	161	0.9340			1.0170	Acceptable
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1									
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00]	CKT 1									

VOLTAGE REPORT TABLE

2001 WINTER PEAK - EMPIRE DISTRICT ELECTRIC - AREA 544

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59464	[BOL 73 5161.00]	TO BUS	59528	[BOL 73 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59425	HER209 269.0	0.8878	0.9804 capacitor 69kv
								59432	BUF243J269.0	0.9032	0.9650 above .90
								59433	STRKAMO269.0	0.9365	0.9761 above .90
								59434	BUF409 269.0	0.8847	0.9562 capacitor 69kv
								59528	BOL 73 269.0	0.9088	0.9992 above .90
								59529	SED 80 269.0	0.9478	0.9871 above .90
								59545	FRP217 269.0	0.9429	0.9918 above .90
								59547	BUF243 269.0	0.9030	0.9648 above .90
								59567	BRT323 269.0	0.9275	0.9905 above .90
								59572	FGC333 269.0	0.9057	0.9656 above .90
								59575	BUF342 269.0	0.8939	0.9647 capacitor 69kv
								59584	BOL367 269.0	0.9085	0.9851 above .90
								59587	STR370 269.0	0.9269	0.9723 above .90
								59596	FRG397 269.0	0.9248	0.9724 above .90
								59612	BOL602 269.0	0.9121	0.9844 above .90
								59637	HUM308 134.5	0.9336	0.9667 above .90
								59640	COL318 134.5	0.9172	0.9509 above .90
59478	[DAD368 5161.00]	TO BUS	59585	[DAD368 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637	HUM308 134.5	0.9424	0.9667 above .90
								59640	COL318 134.5	0.9261	0.9509 above .90
59479	[LAR382 5161.00]	TO BUS	59480	[MON383 5161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59404	PUR390 269.0	0.9450	0.9676 above .90
59480	[MON383 5161.00]	TO BUS	59591	[MON383 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59400	MON376J269.0	0.9360	0.9887 above .90
								59401	MON376 269.0	0.9349	0.9877 above .90
								59402	MON416J269.0	0.9313	0.9843 above .90
								59403	MON416 269.0	0.9310	0.9841 above .90
								59404	PUR390 269.0	0.9133	0.9676 above .90
59487	[HOC404 5161.00]	TO BUS	59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59420	WEL186 134.5	0.9372	0.9640 above .90
59528	[BOL 73 269.000]	TO BUS	59575	[BUF342 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59432	BUF243J269.0	0.9096	0.9650 above .90
								59434	BUF409 269.0	0.8851	0.9562 capacitor 69kv
								59547	BUF243 269.0	0.9095	0.9648 above .90
								59572	FGC333 269.0	0.9136	0.9656 above .90
								59575	BUF342 269.0	0.8943	0.9647 capacitor 69kv
								59587	STR370 269.0	0.9421	0.9723 above .90
								59596	FRG397 269.0	0.9406	0.9724 above .90
59528	[BOL 73 269.000]	TO BUS	59584	[BOL367 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59545	FRP217 269.0	0.9454	0.9918 above .90
								59584	BOL367 269.0	0.9106	0.9851 above .90
								59612	BOL602 269.0	0.9143	0.9844 above .90
								59637	HUM308 134.5	0.9358	0.9667 above .90
								59640	COL318 134.5	0.9197	0.9509 above .90
59529	[SED 80 269.000]	TO BUS	59596	[FRG397 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59432	BUF243J269.0	0.9415	0.9650 above .90
								59547	BUF243 269.0	0.9413	0.9648 above .90
								59572	FGC333 269.0	0.9407	0.9656 above .90
								59587	STR370 269.0	0.9431	0.9723 above .90
								59596	FRG397 269.0	0.9415	0.9724 above .90
59538	[DIA131 269.000]	TO BUS	59595	[RNM393 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59421	GNB347J269.0	0.9493	0.9924 above .90
								59422	GNB347 269.0	0.9409	0.9841 above .90
								59423	DIA242 269.0	0.9488	0.9918 above .90
59543	[NEO184 269.000]	TO BUS	59563	[LIN314 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59524	NEO 56 269.0	0.9463	0.9923 above .90
								59563	LIN314 269.0	0.9447	0.9941 above .90
59545	[FRP217 269.000]	TO BUS	59585	[DAD368 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637	HUM308 134.5	0.9412	0.9667 above .90
								59640	COL318 134.5	0.9250	0.9509 above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59545	[FRP217 269.000] TO BUS 59635 [FRP217 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59635	FRP217	134.5	0.8330	1.0176	provide solut.
				59637	HUM308	134.5	0.8353	0.9667	provide solut.
				59639	DUN283	134.5	0.8331	0.9913	provide solut.
				59640	COL318	134.5	0.8169	0.9509	provide solut.
				59641	CAP304	134.5	0.9370	1.0049	above .90
59546	[BIL221 269.000] TO BUS 59580 [REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59580	REP359	269.0	0.9463	0.9809	above .90
59568	[STK324 269.000] TO BUS 59616 [STK631J269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59568	STK324	269.0	0.8933	0.9952	capacitor 69kv
				59637	HUM308	134.5	0.9181	0.9667	above .90
				59638	STK324	134.5	0.9173	1.0259	above .90
				59640	COL318	134.5	0.9020	0.9509	above .90
				59641	CAP304	134.5	0.9171	1.0049	above .90
59568	[STK324 269.000] TO BUS 59638 [STK324 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9187	0.9667	above .90
				59638	STK324	134.5	0.9181	1.0259	above .90
				59640	COL318	134.5	0.9026	0.9509	above .90
				59641	CAP304	134.5	0.9179	1.0049	above .90
59570	[OZK330 269.000] TO BUS 59604 [BHH415 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59570	OZK330	269.0	0.9026	1.0046	above .90
				59609	OZK434	269.0	0.9061	1.0008	above .90
59572	[FGC333 269.000] TO BUS 59596 [FRG397 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59432	BUF243J269.0	0.9410	0.9410	0.9650	above .90
				59547	BUF243	269.0	0.9409	0.9648	above .90
				59572	FGC333	269.0	0.9407	0.9656	above .90
59590	[QUA377 269.000] TO BUS 59601 [HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59427	COM381	269.0	0.9358	1.0024	above .90
				59579	COM381T269.0	0.9408	0.9408	1.0069	above .90
				59590	QUA377	269.0	0.9392	1.0083	above .90
59605	[STK418 269.000] TO BUS 59614 [SK631CJ269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59549	ARC250	269.0	0.9424	0.9907	above .90
				59568	STK324	269.0	0.9352	0.9952	above .90
				59613	GRN614	269.0	0.9497	0.9853	above .90
				59614	SK631CJ269.0	0.9348	0.9348	0.9959	above .90
				59616	STK631J269.0	0.9353	0.9353	0.9954	above .90
				59637	HUM308	134.5	0.9358	0.9667	above .90
				59640	COL318	134.5	0.9195	0.9509	above .90
59635	[FRP217 134.500] TO BUS 59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217	134.5	1.0504	1.0176	above .90
			VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.8343	0.9667	provide solut.
				59639	DUN283	134.5	0.8319	0.9913	provide solut.
				59640	COL318	134.5	0.8159	0.9509	provide solut.
				59641	CAP304	134.5	0.9364	1.0049	above .90
59637	[HUM308 134.500] TO BUS 59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217	134.5	1.0504	1.0176	above .90
			VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.8448	0.9667	provide solut.
				59640	COL318	134.5	0.8265	0.9509	provide solut.
				59641	CAP304	134.5	0.9415	1.0049	above .90
59637	[HUM308 134.500] TO BUS 59641 [CAP304 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9191	0.9667	above .90
				59640	COL318	134.5	0.9031	0.9509	above .90
59638	[STK324 134.500] TO BUS 59641 [CAP304 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9172	0.9667	above .90
				59640	COL318	134.5	0.9011	0.9509	above .90
				59641	CAP304	134.5	0.9157	1.0049	above .90
59497	[RVS438 5161.00] TO BUS 52672 [TABLE R5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59473	RDS295	5 161	0.9477	0.9771	above .90
				59474	OZD312	5 161	0.9444	0.9846	above .90
				59475	BRN331	5 161	0.9417	0.9819	above .90
				59482	HOL387	5 161	0.9423	0.9860	above .90
				59488	BRN412	5 161	0.9416	0.9818	above .90
				59489	BRN413	5 161	0.9403	0.9849	above .90
				59492	RDS424	5 161	0.9453	0.9767	above .90
				59495	GRT433	5 161	0.9407	0.9831	above .90
				59497	RVS438	5 161	0.9406	0.9877	above .90

VOLTAGE REPORT TABLE

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59605 [STK418 269.000] TO BUS 96118 [5STKAEC 161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59549 ARC250 269.0 0.9425	0.9907 above .90
	59568 STK324 269.0 0.9354	0.9952 above .90
	59605 STK418 269.0 0.9350	0.9970 above .90
	59613 GRN614 269.0 0.9498	0.9853 above .90
	59614 SK631CJ269.0 0.9350	0.9959 above .90
	59616 STK631J269.0 0.9355	0.9954 above .90
	59637 HUM308 134.5 0.9360	0.9667 above .90
	59640 COL318 134.5 0.9196	0.9509 above .90

2001 WINTER PEAK, ST. JOSEPH LIGHT AND POWER - AREA 679

NONE

2004 SUMMER PEAK, MISSOURI PUBLIC SERVICE - AREA 540

( OUTAGED BRANCH ) ( VOLTAGE RANGE ) (X---- BUS ----X)	V-CONT	V-INIT
59207 [ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59159 NEVADA#113.2 0.9346	1.0152 Generation
	59208 NEVADA 5 161 0.8984	0.9695 Generation
	59216 BUTLER_5 161 0.8921	0.9887 Generation
	59240 ADRIAN 5 161 0.8905	0.9987 Generation
	59256 KAMOTP 269.0 0.8812	0.9664 Generation
	59257 ELDRDO 269.0 0.8792	0.9646 Generation
	59258 WALKER 269.0 0.8998	0.9834 Generation
	59259 DEDRCK 269.0 0.8887	0.9733 Generation
	59307 NEVPLT 269.0 0.9320	1.0115 Generation
	59308 NEVADA 269.0 0.9346	1.0152 Generation
	59309 METZ 269.0 0.9091	0.9919 Generation
	59310 3M 269.0 0.9017	0.9851 Generation
	59311 NEVJCT 269.0 0.9300	1.0098 Generation
	59312 LAMAR 269.0 0.8970	0.9796 Generation
59208 [NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59208 NEVADA 5 161 0.9203	0.9695 Acceptable
	59256 KAMOTP 269.0 0.9068	0.9664 Acceptable
	59257 ELDRDO 269.0 0.9049	0.9646 Acceptable
	59258 WALKER 269.0 0.9250	0.9834 Acceptable
	59259 DEDRCK 269.0 0.9142	0.9733 Acceptable
	59309 METZ 269.0 0.9341	0.9919 Acceptable
	59310 3M 269.0 0.9269	0.9851 Acceptable
	59312 LAMAR 269.0 0.9220	0.9796 Acceptable
59208 [NEVADA 5161.00] TO BUS 59308 [NEVADA 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59256 KAMOTP 269.0 0.9243	0.9664 Acceptable
	59257 ELDRDO 269.0 0.9224	0.9646 Acceptable
	59258 WALKER 269.0 0.9421	0.9834 Acceptable
	59259 DEDRCK 269.0 0.9315	0.9733 Acceptable
	59310 3M 269.0 0.9439	0.9851 Acceptable
	59312 LAMAR 269.0 0.9389	0.9796 Acceptable
59208 [NEVADA 5161.00] TO BUS 59308 [NEVADA 269.000] CKT 2 VOLTAGE LESS THAN 0.9500:	59256 KAMOTP 269.0 0.9349	0.9664 Acceptable
	59257 ELDRDO 269.0 0.9330	0.9646 Acceptable
	59259 DEDRCK 269.0 0.9420	0.9733 Acceptable
	59312 LAMAR 269.0 0.9492	0.9796 Acceptable
59209 [SEDALIA5161.00] TO BUS 59271 [SEDN 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59277 WARSAW 269.0 0.9359	0.9875 Acceptable



VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2	0.9464		1.0152	Generation
				59208	NEVADA 5 161	0.9089		0.9695	Generation
				59216	BUTLER_5 161	0.9061		0.9887	Generation
				59256	KAMOTP 269.0	0.8937		0.9664	Generation
				59257	ELDRDO 269.0	0.8917		0.9464	Generation
				59258	WALKER 269.0	0.9121		0.9834	Generation
				59259	DEDRCK 269.0	0.9011		0.9733	Generation
				59307	NEVPLT 269.0	0.9436		1.0115	Generation
				59308	NEVADA 269.0	0.9464		1.0152	Generation
				59309	METZ 269.0	0.9212		0.9919	Generation
				59310	3M 269.0	0.9140		0.9851	Generation
				59311	NEVJCT 269.0	0.9417		1.0098	Generation
				59312	LAMAR 269.0	0.9091		0.9796	Generation
59239	[HSNVL 5161.00] TO BUS 59295 [HSNVL 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN269.0	0.9339		0.9893	Acceptable
				59292	ANCONDA269.0	0.9330		1.0035	Acceptable
				59293	HSNVLW 269.0	0.9331		1.0046	Acceptable
				59294	HSNVLS 269.0	0.9334		1.0073	Acceptable
				59295	HSNVL 269.0	0.9348		1.0119	Acceptable
				59296	HSNVLSW269.0	0.9360		1.0082	Acceptable
				59297	HSNVLN 269.0	0.9395		1.0040	Acceptable
				59298	GRDNCTY269.0	0.9331		1.0055	Acceptable
				59299	SNCLRPS269.0	0.9331		1.0055	Acceptable
59280	[PHILL 269.000] TO BUS 59290 [BELTONS269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59288	RGAFB 269.0	0.9361		0.9863	Upgrade
				59289	BELTON 269.0	0.9292		0.9831	Upgrade
				59290	BELTONS269.0	0.9191		0.9792	Upgrade
59284	[GRDVWTP269.000] TO BUS 59288 [RGAFB 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59288	RGAFB 269.0	0.9304		0.9863	Acceptable
				59289	BELTON 269.0	0.9310		0.9831	Acceptable
				59290	BELTONS269.0	0.9333		0.9792	Acceptable
59285	[GRDWCTY269.000] TO BUS 59286 [GRDWST 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59286	GRDWST 269.0	1.0559		1.0069	LTC
				59287	MARTCTY269.0	1.0591		1.0141	LTC
59286	[GRDWST 269.000] TO BUS 59287 [MARTCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY269.0	1.0808		1.0141	LTC
59288	[RGAFB 269.000] TO BUS 59289 [BELTON 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59289	BELTON 269.0	0.9410		0.9831	Acceptable
				59290	BELTONS269.0	0.9421		0.9792	Acceptable
59292	[ANCONDA269.000] TO BUS 59293 [HSNVLW 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59292	ANCONDA269.0	0.9499		1.0035	Acceptable
59293	[HSNVLW 269.000] TO BUS 59294 [HSNVLS 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN269.0	0.9430		0.9893	Acceptable
				59292	ANCONDA269.0	0.9400		1.0035	Acceptable
				59293	HSNVLW 269.0	0.9398		1.0046	Acceptable
59294	[HSNVLS 269.000] TO BUS 59295 [HSNVL 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN269.0	0.9280		0.9893	Acceptable
				59292	ANCONDA269.0	0.9199		1.0035	Acceptable
				59293	HSNVLW 269.0	0.9194		1.0046	Acceptable
				59294	HSNVLS 269.0	0.9186		1.0073	Acceptable
59307	[NEVPLT 269.000] TO BUS 59308 [NEVADA 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0550		1.0152	Switch
				59308	NEVADA 269.0	1.0550		1.0152	Switch
			VOLTAGE LESS THAN 0.9500:	59304	URICHTP269.0	0.9233		1.0087	Switch
				59305	URICH 269.0	0.9203		1.0059	Switch
				59306	APCITY 269.0	0.8723		1.0044	Switch
				59307	NEVPLT 269.0	0.7770		1.0115	Switch
				59311	NEVJCT 269.0	0.7745		1.0098	Switch
				59312	LAMAR 269.0	0.7336		0.9796	Switch
59308	[NEVADA 269.000] TO BUS 59309 [METZ 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0826		1.0152	LTC
				59307	NEVPLT 269.0	1.0777		1.0115	LTC
				59308	NEVADA 269.0	1.0826		1.0152	LTC
				59311	NEVJCT 269.0	1.0761		1.0098	LTC

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59309	[METZ 269.000] TO BUS 59310 [3M 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0682		1.0152	LTC
				59258	WALKER 269.0	1.0548		0.9834	LTC
				59307	NEVPLT 269.0	1.0636		1.0115	LTC
				59308	NEVADA 269.0	1.0682		1.0152	LTC
				59309	METZ 269.0	1.0626		0.9919	LTC
				59311	NEVJCT 269.0	1.0619		1.0098	LTC
59242	[CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59242	CLINTON5 161	0.8158		1.0197	Accept Risk
				59256	KAMOTP 269.0	0.9163		0.9664	Accept Risk
				59257	ELDRDO 269.0	0.9144		0.9646	Accept Risk
				59258	WALKER 269.0	0.9343		0.9834	Accept Risk
				59259	DEDRCK 269.0	0.9236		0.9733	Accept Risk
				59300	POSTOAK269.0	0.8950		1.0125	Accept Risk
				59301	CLNTPLT269.0	0.8392		1.0167	Accept Risk
				59302	CLNTGRN269.0	0.8375		1.0167	Accept Risk
				59303	CLINTON269.0	0.8386		1.0208	Accept Risk
				59304	URICHTP269.0	0.8591		1.0087	Accept Risk
				59305	URICH 269.0	0.8559		1.0059	Accept Risk
				59306	APCITY 269.0	0.8821		1.0044	Accept Risk
				59309	METZ 269.0	0.9433		0.9919	Accept Risk
				59310	3M 269.0	0.9362		0.9851	Accept Risk
				59312	LAMAR 269.0	0.9263		0.9796	Accept Risk

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59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2	0.9460		1.0152	Generation
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1		59208	NEVADA 5 161	0.9091		0.9695	Generation
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00]	CKT 1		59216	BUTLER_5 161	0.8829		0.9887	Generation
				59256	KAMOTP 269.0	0.8931		0.9664	Generation
				59257	ELDRDO 269.0	0.8911		0.9646	Generation
				59258	WALKER 269.0	0.9115		0.9834	Generation
				59259	DEDRCK 269.0	0.9005		0.9733	Generation
				59307	NEVPLT 269.0	0.9432		1.0115	Generation
				59308	NEVADA 269.0	0.9460		1.0152	Generation
				59309	METZ 269.0	0.9208		0.9919	Generation
				59310	3M 269.0	0.9134		0.9851	Generation
				59311	NEVJCT 269.0	0.9413		1.0098	Generation
				59312	LAMAR 269.0	0.9086		0.9796	Generation

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(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
BASE CASE			VOLTAGE LESS THAN 0.9500:	59404	PUR390 269.0	0.9497		0.9497	above .90
				59416	CHE299T134.5	0.9192		0.9192	above .90
				59417	CHE299 134.5	0.9156		0.9156	above .90
				59418	CHE300 134.5	0.9186		0.9186	above .90
				59419	TWN388 134.5	0.9176		0.9176	above .90
				59420	WEL186 134.5	0.8936		0.8936	provide solut.
				59640	COL318 134.5	0.9496		0.9496	above .90
59433	[STRKAMO269.000] TO BUS 59604 [BHH415 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59433	STRKAMO269.0	0.9462		0.9679	above .90
59436	[CUPTAP 269.000] TO BUS 59585 [DAD368 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59436	CUPTAP 269.0	0.9442		0.9997	above .90
				59437	CUPSUB 269.0	0.9436		0.9992	above .90
				59598	LKW400 269.0	0.9482		0.9727	above .90
				59613	GRN614 269.0	0.9490		0.9765	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59464	[BOL 73 5161.00] TO BUS 59528 [BOL 73 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59425	HER209	269.0	0.8790	0.9808	capacitor 69kv
				59432	BUF243J	269.0	0.8968	0.9639	capacitor 69kv
				59433	STRKAMO	269.0	0.9248	0.9679	above .90
				59434	BUF409	269.0	0.8804	0.9581	capacitor 69kv
				59528	BOL 73	269.0	0.9035	1.0023	above .90
				59529	SED 80	269.0	0.9347	0.9775	above .90
				59545	FRP217	269.0	0.9377	0.9910	above .90
				59547	BUF243	269.0	0.8966	0.9637	capacitor 69kv
				59567	BRT323	269.0	0.9180	0.9867	above .90
				59572	FGC333	269.0	0.8991	0.9640	capacitor 69kv
				59575	BUF342	269.0	0.8887	0.9657	capacitor 69kv
				59584	BOL367	269.0	0.9059	0.9895	above .90
				59586	WIL445	269.0	0.9416	0.9743	above .90
				59587	STR370	269.0	0.9160	0.9654	above .90
				59596	FRG397	269.0	0.9146	0.9663	above .90
				59612	BOL602	269.0	0.9089	0.9878	above .90
				59637	HUM308	134.5	0.9325	0.9684	above .90
				59639	DUN283	134.5	0.9473	0.9910	above .90
				59640	COL318	134.5	0.9129	0.9496	above .90
				59691	WIL369	269.0	0.9393	0.9721	above .90
59478	[DAD368 5161.00] TO BUS 59585 [DAD368 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59436	CUPTAP	269.0	0.9492	0.9997	above .90
				59437	CUPSUB	269.0	0.9487	0.9992	above .90
				59536	ASH121	269.0	0.9491	0.9792	above .90
				59637	HUM308	134.5	0.9427	0.9684	above .90
				59640	COL318	134.5	0.9236	0.9496	above .90
				59691	WIL369	269.0	0.9478	0.9721	above .90
59479	[LAR382 5161.00] TO BUS 59480 [MON383 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59400	MON376J	269.0	0.9460	0.9794	above .90
				59401	MON376	269.0	0.9447	0.9781	above .90
				59402	MON416J	269.0	0.9400	0.9736	above .90
				59403	MON416	269.0	0.9397	0.9733	above .90
				59404	PUR390	269.0	0.9153	0.9497	above .90
				59468	AUR124	5 161	0.9427	0.9673	above .90
				59480	MON383	5 161	0.9311	0.9646	above .90
59480	[MON383 5161.00] TO BUS 59591 [MON383 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59400	MON376J	269.0	0.9182	0.9794	above .90
				59401	MON376	269.0	0.9169	0.9781	above .90
				59402	MON416J	269.0	0.9120	0.9736	above .90
				59403	MON416	269.0	0.9116	0.9733	above .90
				59404	PUR390	269.0	0.8864	0.9497	capacitor 69kv
				59405	MON352J	269.0	0.9415	1.0009	above .90
				59406	MON352	269.0	0.9413	1.0008	above .90
				59407	MON311J	269.0	0.9401	0.9997	above .90
				59408	MON311	269.0	0.9400	0.9996	above .90
				59430	SAR362	269.0	0.9462	0.9810	above .90
				59540	MON152	269.0	0.9465	1.0013	above .90
				59544	WEN205	269.0	0.9497	0.9899	above .90
				59591	MON383	269.0	0.9458	1.0051	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59487	[HOC404 5161.00]	TO BUS	59601 [HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59409	SCAM66 269.0	0.9465	0.9790 above .90
						59410	COL282T269.0	0.9475	0.9800 above .90
						59411	COL282 269.0	0.9412	0.9739 above .90
						59412	SEK225T269.0	0.9456	0.9782 above .90
						59413	SEK225 269.0	0.9454	0.9781 above .90
						59414	SMN425 269.0	0.9442	0.9768 above .90
						59415	SHR444 269.0	0.9444	0.9770 above .90
						59416	CHE299T134.5	0.8719	0.9192 provide solut.
						59417	CHE299 134.5	0.8682	0.9156 provide solut.
						59418	CHE300 134.5	0.8713	0.9186 provide solut.
						59419	TWN388 134.5	0.8703	0.9176 provide solut.
						59420	WEL186 134.5	0.8450	0.8936 provide solut.
						59427	COM381 269.0	0.9435	0.9870 above .90
59488	[BRN412 5161.00]	TO BUS	59492 [RDS424 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59473	RDS295 5 161	0.9378	0.9602 above .90
						59492	RDS424 5 161	0.9353	0.9596 above .90
59524	[NEO 56 269.000]	TO BUS	59563 [LIN314 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59524	NEO 56 269.0	0.9468	0.9790 above .90
59528	[BOL 73 269.000]	TO BUS	59575 [BUF342 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59432	BUF243J269.0	0.9071	0.9639 above .90
						59433	STRKAMO269.0	0.9413	0.9679 above .90
						59434	BUF409 269.0	0.8848	0.9581 capacitor 69kv
						59547	BUF243 269.0	0.9070	0.9637 above .90
						59572	FGC333 269.0	0.9108	0.9640 above .90
						59575	BUF342 269.0	0.8931	0.9657 capacitor 69kv
						59587	STR370 269.0	0.9344	0.9654 above .90
						59596	FRG397 269.0	0.9336	0.9663 above .90
59528	[BOL 73 269.000]	TO BUS	59584 [BOL367 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59545	FRP217 269.0	0.9497	0.9910 above .90
						59584	BOL367 269.0	0.9231	0.9895 above .90
						59612	BOL602 269.0	0.9253	0.9878 above .90
						59637	HUM308 134.5	0.9412	0.9684 above .90
						59640	COL318 134.5	0.9221	0.9496 above .90
59529	[SED 80 269.000]	TO BUS	59596 [FRG397 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59587	STR370 269.0	0.9429	0.9654 above .90
						59596	FRG397 269.0	0.9425	0.9663 above .90
59532	[CAR108 269.000]	TO BUS	59533 [ATL109 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59532	CAR108 269.0	0.9493	0.9782 above .90
						59599	JAS403 269.0	0.9486	0.9728 above .90
						59600	JAS403T269.0	0.9492	0.9734 above .90
59536	[ASH121 269.000]	TO BUS	59585 [DAD368 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59536	ASH121 269.0	0.9488	0.9792 above .90
						59691	WIL369 269.0	0.9484	0.9721 above .90
59537	[AUR124 269.000]	TO BUS	59578 [AUR355 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364 269.0	0.9474	0.9710 above .90
						59577	MTV351 269.0	0.9381	0.9718 above .90
						59578	AUR355 269.0	0.9277	0.9806 above .90
						59606	MTV420 269.0	0.9369	0.9723 above .90
59538	[DIA131 269.000]	TO BUS	59595 [RNM393 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59421	GNB347J269.0	0.9328	0.9818 above .90
						59422	GNB347 269.0	0.9217	0.9709 above .90
						59423	DIA242 269.0	0.9322	0.9812 above .90
						59430	SAR362 269.0	0.9487	0.9810 above .90
						59538	DIA131 269.0	0.9377	0.9865 above .90
59541	[RIV167 269.000]	TO BUS	59602 [RIV406 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59416	CHE299T134.5	0.8982	0.9192 provide solut.
						59417	CHE299 134.5	0.8946	0.9156 provide solut.
						59418	CHE300 134.5	0.8976	0.9186 provide solut.
						59419	TWN388 134.5	0.8967	0.9176 provide solut.
						59420	WEL186 134.5	0.8721	0.8936 provide solut.
59543	[NEO184 269.000]	TO BUS	59560 [ROC296 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59560	ROC296 269.0	0.9494	0.9790 above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59543	[NEO184 269.000] TO BUS 59563 [LIN314 269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59426 SEN375 269.0	0.9385					0.9699	above .90
				59524 NEO 56 269.0	0.9161					0.9790	above .90
				59563 LIN314 269.0	0.9142					0.9815	above .90
59545	[FRP217 269.000] TO BUS 59635 [FRP217 134.500]	CTK 1	VOLTAGE LESS THAN 0.9500:	59635 FRP217 134.5	0.8511					1.0148	capacitor 69kv
				59637 HUM308 134.5	0.8524					0.9684	capacitor 69kv
				59639 DUN283 134.5	0.8511					0.9910	capacitor 69kv
				59640 COL318 134.5	0.8307					0.9496	capacitor 69kv
				59641 CAP304 134.5	0.9396					1.0010	above .90
59546	[BIL221 269.000] TO BUS 59580 [REP359 269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59576 REP345 269.0	0.9180					0.9684	above .90
				59580 REP359 269.0	0.8996					0.9628	capacitor 69kv
59554	[BAX271 269.000] TO BUS 59601 [HOC404 269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59416 CHE299T134.5	0.8863					0.9192	capacitor 69kv
				59417 CHE299 134.5	0.8827					0.9156	capacitor 69kv
				59418 CHE300 134.5	0.8857					0.9186	capacitor 69kv
				59419 TWN388 134.5	0.8848					0.9176	capacitor 69kv
				59420 WEL186 134.5	0.8599					0.8936	capacitor 69kv
59568	[STK324 269.000] TO BUS 59616 [STK631J269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59568 STK324 269.0	0.9076					0.9848	above .90
				59637 HUM308 134.5	0.9336					0.9684	above .90
				59638 STK324 134.5	0.9320					1.0189	above .90
				59640 COL318 134.5	0.9144					0.9496	above .90
				59641 CAP304 134.5	0.9318					1.0010	above .90
59568	[STK324 269.000] TO BUS 59638 [STK324 134.500]	CTK 1	VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.9386					0.9684	above .90
				59638 STK324 134.5	0.9380					1.0189	above .90
				59640 COL318 134.5	0.9197					0.9496	above .90
				59641 CAP304 134.5	0.9379					1.0010	above .90
59570	[OZK330 269.000] TO BUS 59604 [BHJ415 269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59570 OZK330 269.0	0.8825					0.9955	capacitor 69kv
				59609 OZK434 269.0	0.8875					0.9925	capacitor 69kv
59589	[RAC375 269.000] TO BUS 59592 [JOP389 269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59426 SEN375 269.0	0.9448					0.9699	above .90
59590	[QUA377 269.000] TO BUS 59601 [HOC404 269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59427 COM381 269.0	0.9055					0.9870	above .90
				59579 COM381T269.0	0.9141					0.9949	above .90
				59590 QUA377 269.0	0.9118					0.9963	above .90
59598	[LKW400 269.000] TO BUS 59613 [GRN614 269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59550 GLD251 269.0	0.9456					0.9708	above .90
				59598 LKW400 269.0	0.9410					0.9727	above .90
59605	[STK418 269.000] TO BUS 59614 [SK631CJ269.000]	CTK 1	VOLTAGE LESS THAN 0.9500:	59548 BOS249 269.0	0.9489					0.9719	above .90
				59549 ARC250 269.0	0.9275					0.9809	above .90
				59550 GLD251 269.0	0.9406					0.9708	above .90
				59568 STK324 269.0	0.9197					0.9848	above .90
				59598 LKW400 269.0	0.9358					0.9727	above .90
				59613 GRN614 269.0	0.9357					0.9765	above .90
				59614 SK631CJ269.0	0.9191					0.9853	above .90
				59616 STK631J269.0	0.9198					0.9849	above .90
				59637 HUM308 134.5	0.9372					0.9684	above .90
				59640 COL318 134.5	0.9177					0.9496	above .90
				59641 CAP304 134.5	0.9462					1.0010	above .90
59635	[FRP217 134.500] TO BUS 59639 [DUN283 134.500]	CTK 1	VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.8512					0.9684	capacitor 69kv
				59639 DUN283 134.5	0.8496					0.9910	capacitor 69kv
				59640 COL318 134.5	0.8295					0.9496	capacitor 69kv
				59641 CAP304 134.5	0.9391					1.0010	above .90
59637	[HUM308 134.500] TO BUS 59639 [DUN283 134.500]	CTK 1	VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.8574					0.9684	capacitor 69kv
				59640 COL318 134.5	0.8357					0.9496	capacitor 69kv
				59641 CAP304 134.5	0.9420					1.0010	above .90
59637	[HUM308 134.500] TO BUS 59641 [CAP304 134.500]	CTK 1	VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.9385					0.9684	above .90
				59640 COL318 134.5	0.9196					0.9496	above .90
59638	[STK324 134.500] TO BUS 59641 [CAP304 134.500]	CTK 1	VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.9370					0.9684	above .90
				59640 COL318 134.5	0.9181					0.9496	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59484	[DEC392 5161.00] TO BUS 53139 [FLINTCR5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59428	SWC414	269.0	0.9483	0.9843	above .90
				59569	DEC326	269.0	0.9484	1.0015	above .90
				59594	DEC392	269.0	0.9498	1.0041	above .90
				59617	GRA700	269.0	0.9477	0.9963	above .90
59497	[RVS438 5161.00] TO BUS 52672 [TABLE R5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59473	RDS295	5 161	0.9267	0.9602	above .90
				59474	OZD312	5 161	0.9226	0.9687	above .90
				59475	BRN331	5 161	0.9203	0.9664	above .90
				59482	HOL387	5 161	0.9207	0.9710	above .90
				59488	BRN412	5 161	0.9202	0.9663	above .90
				59489	BRN413	5 161	0.9190	0.9704	above .90
				59492	RDS424	5 161	0.9237	0.9596	above .90
				59495	GRT433	5 161	0.9194	0.9681	above .90
				59497	RVS438	5 161	0.9193	0.9736	above .90
				59648	OZD312	14.60	0.9462	0.9915	above .90
				59641	CAP304	134.5	0.9356	1.0010	above .90
59605	[STK418 269.000] TO BUS 96118 [5STKAEC 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59548	BOS249	269.0	0.9490	0.9719	above .90
				59549	ARC250	269.0	0.9286	0.9809	above .90
				59550	GLD251	269.0	0.9409	0.9708	above .90
				59568	STK324	269.0	0.9211	0.9848	above .90
				59598	LKW400	269.0	0.9364	0.9727	above .90
				59605	STK418	269.0	0.9205	0.9864	above .90
				59613	GRN614	269.0	0.9365	0.9765	above .90
				59614	SK631CJ	269.0	0.9205	0.9853	above .90
				59616	STK631J	269.0	0.9211	0.9849	above .90
				59637	HUM308	134.5	0.9388	0.9684	above .90
				59640	COL318	134.5	0.9198	0.9496	above .90
				59641	CAP304	134.5	0.9482	1.0010	above .90
CONTINGENCY SPP-12									
59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9471	0.9684	above .90
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1		59640	COL318	134.5	0.9278	0.9496	above .90
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00]	CKT 1							
<b>2004 SUMMER PEAK - ST. JOSEPH LIGHT AND POWER - AREA 679</b>								<b>NONE</b>	
69703	[ST JOE 5161.00] TO BUS 69708 [WOODBIN5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	69704	EAST	5 161	0.9494	0.9989	Acceptable
				69708	WOODBIN5	161	0.9492	1.0029	Acceptable
<b>2004 WINTER PEAK - MISSOURI PUBLIC SERVICE - AREA 540</b>									
59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59256	KAMOTP	269.0	0.9499	0.9943	Acceptable
				59257	ELDRDO	269.0	0.9487	0.9931	Acceptable
59212	[KCI 5161.00] TO BUS 59213 [FRLVW 5161.00]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59213	FRLVW	5 161	1.0654	1.0365	Cap Bank Off
59212	[KCI 5161.00] TO BUS 59221 [PLTCTY 5161.00]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59212	KCI	5 161	1.0624	1.0329	Cap Bank Off
				59213	FRLVW	5 161	1.0629	1.0365	Cap Bank Off
59286	[GRDWST 269.000] TO BUS 59287 [MARTCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY	269.0	1.0621	1.0194	LTC
59307	[NEVPLT 269.000] TO BUS 59308 [NEVADA 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59306	APCITY	269.0	0.9477	1.0142	Switch
				59307	NEVPLT	269.0	0.8999	1.0222	Switch
				59311	NEVJCT	269.0	0.8987	1.0212	Switch
				59312	LAMAR	269.0	0.8770	1.0025	Switch
59308	[NEVADA 269.000] TO BUS 59309 [METZ 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0574	1.0574	1.0246	LTC
				59307	NEVPLT	269.0	1.0543	1.0222	LTC
				59308	NEVADA	269.0	1.0574	1.0246	LTC
				59311	NEVJCT	269.0	1.0533	1.0212	LTC

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS ----X)	V-CONT	V-INIT
59309	[METZ 269.000] TO BUS 59310 [3M 269.000] CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0502	1.0246	LTC
			59308	NEVADA 269.0	1.0502	1.0246	LTC
59242	[CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59242	CLINTON5 161	0.9238	1.0287	Acceptable
			59301	CLNTPLT269.0	0.9268	1.0170	Acceptable
			59302	CLNTGRN269.0	0.9258	1.0169	Acceptable
			59303	CLINTON269.0	0.9265	1.0194	Acceptable
			59304	URICHTP269.0	0.9401	1.0147	Acceptable
			59305	URICH 269.0	0.9382	1.0130	Acceptable
CONTINGENCY SPP-12							
59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59216	BUTLER_5 161	0.9239	1.0122	Acceptable
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1						
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1						

2004 WINTER PEAK -EMPIRE DISTRICT ELECTRIC - AREA 544

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS ----X)	V-CONT	V-INIT
	BASE CASE	VOLTAGE LESS THAN 0.9500:	59420	WEL186 134.5	0.9458	0.9458	above .90
			59640	COL318 134.5	0.9498	0.9498	above .90
59464	[BOL 73 5161.00] TO BUS 59528 [BOL 73 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59425	HER209 269.0	0.8771	0.9958	capacitor 69kv
			59432	BUF243J269.0	0.8952	0.9755	capacitor 69kv
			59433	STRKAMO269.0	0.9308	0.9826	above .90
			59434	BUF409 269.0	0.8758	0.9683	capacitor 69kv
			59528	BOL 73 269.0	0.8988	1.0145	capacitor 69kv
			59529	SED 80 269.0	0.9423	0.9936	above .90
			59545	FRP217 269.0	0.9346	0.9980	above .90
			59547	BUF243 269.0	0.8950	0.9754	capacitor 69kv
			59567	BRT323 269.0	0.9195	1.0007	above .90
			59572	FGC333 269.0	0.8979	0.9760	capacitor 69kv
			59575	BUF342 269.0	0.8851	0.9767	capacitor 69kv
			59584	BOL367 269.0	0.8971	0.9957	capacitor 69kv
			59587	STR370 269.0	0.9205	0.9798	above .90
			59596	FRG397 269.0	0.9181	0.9803	above .90
			59612	BOL602 269.0	0.9008	0.9940	above .90
			59637	HUM308 134.5	0.9235	0.9663	above .90
			59639	DUN283 134.5	0.9413	0.9928	above .90
			59640	COL318 134.5	0.9061	0.9498	above .90
59478	[DAD368 5161.00] TO BUS 59585 [DAD368 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308 134.5	0.9426	0.9663	above .90
			59640	COL318 134.5	0.9256	0.9498	above .90
59479	[LAR382 5161.00] TO BUS 59480 [MON383 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59404	PUR390 269.0	0.9434	0.9688	above .90
59480	[MON383 5161.00] TO BUS 59591 [MON383 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59400	MON376J269.0	0.9300	0.9907	above .90
			59401	MON376 269.0	0.9288	0.9896	above .90
			59402	MON416J269.0	0.9251	0.9861	above .90
			59403	MON416 269.0	0.9248	0.9859	above .90
			59404	PUR390 269.0	0.9065	0.9688	above .90
			59407	MON311J269.0	0.9494	1.0087	above .90
			59408	MON311 269.0	0.9493	1.0086	above .90
59487	[HOC404 5161.00] TO BUS 59601 [HOC404 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59416	CHE299T134.5	0.9378	0.9628	above .90
			59417	CHE299 134.5	0.9355	0.9605	above .90
			59418	CHE300 134.5	0.9375	0.9625	above .90
			59419	TWN388 134.5	0.9369	0.9619	above .90
			59420	WEL186 134.5	0.9205	0.9458	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59528	[BOL 73 269.000]	TO BUS	59575 [BUF342 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59432 BUF243J269.0	0.9139	0.9755 above .90
							59434 BUF409 269.0	0.8893	0.9683 capacitor 69kv
							59547 BUF243 269.0	0.9137	0.9754 above .90
							59572 FGC333 269.0	0.9178	0.9760 above .90
							59575 BUF342 269.0	0.8985	0.9767 capacitor 69kv
							59587 STR370 269.0	0.9461	0.9798 above .90
							59596 FRG397 269.0	0.9448	0.9803 above .90
59528	[BOL 73 269.000]	TO BUS	59584 [BOL367 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59545 FRP217 269.0	0.9349	0.9980 above .90
							59584 BOL367 269.0	0.8941	0.9957 capacitor 69kv
							59612 BOL602 269.0	0.8984	0.9940 capacitor 69kv
							59637 HUM308 134.5	0.9241	0.9663 above .90
							59639 DUN283 134.5	0.9422	0.9928 above .90
							59640 COL318 134.5	0.9067	0.9498 above .90
59538	[DIA131 269.000]	TO BUS	59595 [RNM393 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59421 GNB347J269.0	0.9470	0.9908 above .90
							59422 GNB347 269.0	0.9377	0.9816 above .90
							59423 DIA242 269.0	0.9464	0.9903 above .90
59543	[NEO184 269.000]	TO BUS	59563 [LIN314 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59524 NEO 56 269.0	0.9328	0.9871 above .90
							59563 LIN314 269.0	0.9311	0.9896 above .90
59545	[FRP217 269.000]	TO BUS	59585 [DAD368 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.9440	0.9663 above .90
							59640 COL318 134.5	0.9270	0.9498 above .90
59545	[FRP217 269.000]	TO BUS	59635 [FRP217 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59635 FRP217 134.5	0.8191	1.0210 provide solut.
							59637 HUM308 134.5	0.8212	0.9663 provide solut.
							59639 DUN283 134.5	0.8190	0.9928 provide solut.
							59640 COL318 134.5	0.8014	0.9498 provide solut.
							59641 CAP304 134.5	0.9297	1.0053 above .90
59546	[BIL221 269.000]	TO BUS	59580 [REP359 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59580 REP359 269.0	0.9469	0.9829 above .90
59568	[STK324 269.000]	TO BUS	59616 [STK631J269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59568 STK324 269.0	0.8948	0.9946 capacitor 69kv
							59637 HUM308 134.5	0.9195	0.9663 above .90
							59638 STK324 134.5	0.9188	1.0267 above .90
							59640 COL318 134.5	0.9027	0.9498 above .90
							59641 CAP304 134.5	0.9187	1.0053 above .90
59568	[STK324 269.000]	TO BUS	59638 [STK324 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.9202	0.9663 above .90
							59638 STK324 134.5	0.9197	1.0267 above .90
							59640 COL318 134.5	0.9034	0.9498 above .90
							59641 CAP304 134.5	0.9195	1.0053 above .90
59570	[OZK330 269.000]	TO BUS	59604 [BHH415 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59570 OZK330 269.0	0.8940	1.0072 provide solut.
							59609 OZK434 269.0	0.8979	1.0031 provide solut.
59590	[QUA377 269.000]	TO BUS	59601 [HOC404 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59427 COM381 269.0	0.9329	0.9949 above .90
							59579 COM381T269.0	0.9379	0.9996 above .90
							59590 QUA377 269.0	0.9361	1.0006 above .90
59605	[STK418 269.000]	TO BUS	59614 [SK631CJ269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59549 ARC250 269.0	0.9295	0.9888 above .90
							59550 GLD251 269.0	0.9452	0.9781 above .90
							59568 STK324 269.0	0.9214	0.9946 above .90
							59598 LKW400 269.0	0.9395	0.9795 above .90
							59613 GRN614 269.0	0.9380	0.9820 above .90
							59614 SK631CJ269.0	0.9209	0.9954 above .90
							59616 STK631J269.0	0.9215	0.9948 above .90
							59637 HUM308 134.5	0.9298	0.9663 above .90
							59640 COL318 134.5	0.9128	0.9498 above .90
							59641 CAP304 134.5	0.9457	1.0053 above .90



VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59635	[FRP217 134.500]	TO BUS	59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217 134.5	1.0576	1.0210 above .90
					VOLTAGE LESS THAN 0.9500:	59637	HUM308 134.5	0.8206	0.9663 provide solut.
						59639	DUN283 134.5	0.8181	0.9928 provide solut.
						59640	COL318 134.5	0.8010	0.9498 provide solut.
						59641	CAP304 134.5	0.9293	1.0053 above .90
59637	[HUM308 134.500]	TO BUS	59639 [DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59635	FRP217 134.5	1.0576	1.0210 above .90
						59639	DUN283 134.5	1.0559	0.9928 above .90
					VOLTAGE LESS THAN 0.9500:	59637	HUM308 134.5	0.8317	0.9663 provide solut.
						59640	COL318 134.5	0.8122	0.9498 provide solut.
						59641	CAP304 134.5	0.9348	1.0053 above .90
59637	[HUM308 134.500]	TO BUS	59641 [CAP304 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308 134.5	0.9157	0.9663 above .90
						59640	COL318 134.5	0.8985	0.9498 provide solut.
59638	[STK324 134.500]	TO BUS	59641 [CAP304 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308 134.5	0.9128	0.9663 above .90
						59640	COL318 134.5	0.8956	0.9498 provide solut.
						59641	CAP304 134.5	0.9106	1.0053 above .90
59497	[RVS438 5161.00]	TO BUS	52672 [TABLE R5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59473	RDS295 5 161	0.9439	0.9754 above .90
						59474	OZD312 5 161	0.9381	0.9812 above .90
						59475	BRN331 5 161	0.9359	0.9790 above .90
						59482	HOL387 5 161	0.9360	0.9828 above .90
						59488	BRN412 5 161	0.9359	0.9790 above .90
						59489	BRN413 5 161	0.9342	0.9820 above .90
						59492	RDS424 5 161	0.9411	0.9748 above .90
						59495	GRT433 5 161	0.9348	0.9802 above .90
						59497	RVS438 5 161	0.9345	0.9848 above .90
59605	[STK418 269.000]	TO BUS	96118 [5STKAEC 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59549	ARC250 269.0	0.9296	0.9888 above .90
						59550	GLD251 269.0	0.9453	0.9781 above .90
						59568	STK324 269.0	0.9216	0.9946 above .90
						59598	LKW400 269.0	0.9395	0.9795 above .90
						59605	STK418 269.0	0.9210	0.9967 above .90
						59613	GRN614 269.0	0.9381	0.9820 above .90
						59614	SK631CJ269.0	0.9210	0.9954 above .90
						59616	STK631J269.0	0.9217	0.9948 above .90
						59637	HUM308 134.5	0.9299	0.9663 above .90
						59640	COL318 134.5	0.9130	0.9498 above .90
						59641	CAP304 134.5	0.9459	1.0053 above .90

2004 WINTER PEAK - ST. JOSEPH LIGHT AND POWER - AREA 679

NONE

2006 SUMMER PEAK -MISSOURI PUBLIC SERVICE - AREA 540

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59207	[ARCHIE 5161.00]	TO BUS	59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2	0.9241	1.0176 Generation
						59208	NEVADA 5 161	0.8805	0.9604 Generation
						59216	BUTLER_5 161	0.8721	0.9796 Generation
						59240	ADRIAN 5 161	0.8704	0.9906 Generation
						59256	KAMOTP 269.0	0.8658	0.9656 Generation
						59257	ELDRDO 269.0	0.8636	0.9636 Generation
						59258	WALKER 269.0	0.8862	0.9837 Generation
						59259	DEDRCK 269.0	0.8740	0.9729 Generation
						59306	APCITY 269.0	0.9448	1.0039 Generation
						59307	NEVPLT 269.0	0.9212	1.0136 Generation
						59308	NEVADA 269.0	0.9241	1.0176 Generation
						59309	METZ 269.0	0.8964	0.9928 Generation
						59310	3M 269.0	0.8883	0.9856 Generation
						59311	NEVJCT 269.0	0.9191	1.0117 Generation
						59312	LAMAR 269.0	0.8831	0.9795 Generation

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59208	NEVADA 5 161	0.9098		0.9604	Acceptable
				59256	KAMOTP 269.0	0.9022		0.9656	Acceptable
				59257	ELDRDO 269.0	0.9001		0.9636	Acceptable
				59258	WALKER 269.0	0.9217		0.9837	Acceptable
				59259	DEDRCK 269.0	0.9100		0.9729	Acceptable
				59309	METZ 269.0	0.9314		0.9928	Acceptable
				59310	3M 269.0	0.9237		0.9856	Acceptable
				59312	LAMAR 269.0	0.9182		0.9795	Acceptable
59208	[NEVADA 5161.00] TO BUS 59308 [NEVADA 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59256	KAMOTP 269.0	0.9123		0.9656	Acceptable
				59257	ELDRDO 269.0	0.9102		0.9636	Acceptable
				59258	WALKER 269.0	0.9314		0.9837	Acceptable
				59259	DEDRCK 269.0	0.9200		0.9729	Acceptable
				59309	METZ 269.0	0.9410		0.9928	Acceptable
				59310	3M 269.0	0.9334		0.9856	Acceptable
				59312	LAMAR 269.0	0.9279		0.9795	Acceptable
59208	[NEVADA 5161.00] TO BUS 59308 [NEVADA 269.000]	CKT 2	VOLTAGE LESS THAN 0.9500:	59256	KAMOTP 269.0	0.9254		0.9656	Acceptable
				59257	ELDRDO 269.0	0.9234		0.9636	Acceptable
				59258	WALKER 269.0	0.9443		0.9837	Acceptable
				59259	DEDRCK 269.0	0.9330		0.9729	Acceptable
				59310	3M 269.0	0.9463		0.9856	Acceptable
				59312	LAMAR 269.0	0.9406		0.9795	Acceptable
59209	[SEDALIA5161.00] TO BUS 59271 [SEDN 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59276	COLECMP269.0	0.9469		0.9993	Acceptable
				59277	WARSAW 269.0	0.9301		0.9835	Acceptable
59209	[SEDALIA5161.00] TO BUS 59272 [SEDS 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59277	WARSAW 269.0	0.9413		0.9835	Acceptable
59210	[MARTCTY5161.00] TO BUS 59287 [MARTCTY269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59284	GRDVWTP269.0	0.9490		0.9985	Acceptable
				59285	GRDWCTY269.0	0.9474		0.9992	Acceptable
				59286	GRDWST 269.0	0.9435		1.0041	Acceptable
				59287	MARTCTY269.0	0.9435		1.0125	Acceptable
				59288	RGAFB 269.0	0.9406		0.9801	Acceptable
				59289	BELTON 269.0	0.9398		0.9769	Acceptable
				59290	BELTONS269.0	0.9390		0.9724	Acceptable
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2	0.9399		1.0176	Generation
				59208	NEVADA 5 161	0.8936		0.9604	Generation
				59216	BUTLER_5 161	0.8888		0.9796	Generation
				59256	KAMOTP 269.0	0.8832		0.9656	Generation
				59257	ELDRDO 269.0	0.8810		0.9636	Generation
				59258	WALKER 269.0	0.9029		0.9837	Generation
				59259	DEDRCK 269.0	0.8911		0.9729	Generation
				59307	NEVPLT 269.0	0.9369		1.0136	Generation
				59308	NEVADA 269.0	0.9399		1.0176	Generation
				59309	METZ 269.0	0.9129		0.9928	Generation
				59310	3M 269.0	0.9050		0.9856	Generation
				59311	NEVJCT 269.0	0.9348		1.0117	Generation
				59312	LAMAR 269.0	0.8997		0.9795	Generation

VOLTAGE REPORT TABLE

( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT		
59225 [PHILL 5161.00] TO BUS 59280 [PHILL 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:		59154 RGREEN#313.2	0.8999	1.0085 Upgrade		
		59278 HOLDEN 269.0	0.9313	0.9965 Upgrade		
		59279 RGREEN 269.0	0.8999	1.0085 Upgrade		
		59280 PHILL 269.0	0.8994	1.0112 Upgrade		
		59288 RGAFB 269.0	0.9137	0.9801 Upgrade		
		59289 BELTON 269.0	0.9059	0.9769 Upgrade		
		59290 BELTONS269.0	0.8939	0.9724 Upgrade		
		59291 FREEMAN269.0	0.9165	0.9870 Upgrade		
		59292 ANCONDA269.0	0.9388	1.0041 Upgrade		
		59293 HSNVLW 269.0	0.9402	1.0053 Upgrade		
		59294 HSNVLS 269.0	0.9443	1.0085 Upgrade		
		59296 HSNVLSW269.0	0.9418	1.0092 Upgrade		
		59297 HSNVLN 269.0	0.9282	1.0030 Upgrade		
		59298 GRDNCTY269.0	0.9387	1.0063 Upgrade		
59299 SNCLRPS269.0	0.9387	1.0063 Upgrade				
59229 [ODESSA 5161.00] TO BUS 59267 [ODESSA 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:		59267 ODESSA 269.0	0.9392	1.0143 Acceptable		
59239 [HSNVL 5161.00] TO BUS 59295 [HSNVL 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:		59288 RGAFB 269.0	0.9436	0.9801 Upgrade		
		59289 BELTON 269.0	0.9378	0.9769 Upgrade		
		59290 BELTONS269.0	0.9292	0.9724 Upgrade		
		59291 FREEMAN269.0	0.9071	0.9870 Upgrade		
		59292 ANCONDA269.0	0.9049	1.0041 Upgrade		
		59293 HSNVLW 269.0	0.9048	1.0053 Upgrade		
		59294 HSNVLS 269.0	0.9049	1.0085 Upgrade		
		59295 HSNVL 269.0	0.9062	1.0140 Upgrade		
		59296 HSNVLSW269.0	0.9074	1.0092 Upgrade		
		59297 HSNVLN 269.0	0.9107	1.0030 Upgrade		
		59298 GRDNCTY269.0	0.9042	1.0063 Upgrade		
		59299 SNCLRPS269.0	0.9042	1.0063 Upgrade		
		59279 [RGREEN 269.000] TO BUS 59280 [PHILL 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:		59154 RGREEN#313.2	0.9259	1.0085 Acceptable
				59278 HOLDEN 269.0	0.9473	0.9965 Acceptable
59279 RGREEN 269.0	0.9259			1.0085 Acceptable		
59280 [PHILL 269.000] TO BUS 59290 [BELTONS269.000] CKT 1 VOLTAGE LESS THAN 0.9500:		59288 RGAFB 269.0	0.9314	0.9801 Upgrade		
		59289 BELTON 269.0	0.9245	0.9769 Upgrade		
		59290 BELTONS269.0	0.9144	0.9724 Upgrade		
59284 [GRDVWTP269.000] TO BUS 59288 [RGAFB 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:		59288 RGAFB 269.0	0.9110	0.9801 Upgrade		
		59289 BELTON 269.0	0.9117	0.9769 Upgrade		
		59290 BELTONS269.0	0.9141	0.9724 Upgrade		
59285 [GRDWCTY269.000] TO BUS 59286 [GRDWST 269.000] CKT 1 VOLTAGE GREATER THAN 1.0500:		59291 FREEMAN269.0	0.9452	0.9870 Upgrade		
		59286 GRDWST 269.0	1.0595	1.0041 Acceptable		
		59287 MARTCTY269.0	1.0629	1.0125 Acceptable		
59286 [GRDWST 269.000] TO BUS 59287 [MARTCTY269.000] CKT 1 VOLTAGE GREATER THAN 1.0500: VOLTAGE LESS THAN 0.9500:		59287 MARTCTY269.0	1.0865	1.0125 Acceptable		
		59284 GRDVWTP269.0	0.9490	0.9985 Acceptable		
		59285 GRDWCTY269.0	0.9474	0.9992 Acceptable		
		59286 GRDWST 269.0	0.9434	1.0041 Acceptable		
		59288 RGAFB 269.0	0.9406	0.9801 Acceptable		
		59289 BELTON 269.0	0.9398	0.9769 Acceptable		
		59290 BELTONS269.0	0.9390	0.9724 Acceptable		
		59289 BELTON 269.0	0.9243	0.9769 Upgrade		
		59290 BELTONS269.0	0.9255	0.9724 Upgrade		
		59290 BELTONS269.0	0.9365	0.9724 Acceptable		
59288 [RGAFB 269.000] TO BUS 59289 [BELTON 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:		59291 FREEMAN269.0	0.9382	0.9870 Acceptable		
		59292 ANCONDA269.000] TO BUS 59293 [HSNVLW 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59291 FREEMAN269.0	0.9375	0.9870 Acceptable	
		59292 ANCONDA269.0	0.9369	1.0041 Acceptable		

VOLTAGE REPORT TABLE

( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X)	V-CONT	V-INIT
59293 [HSNVLW 269.000] TO BUS 59294 [HSNVLS 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59291 FREEMAN269.0	0.9293	0.9870 Acceptable
		59292 ANCONDA269.0	0.9261	1.0041 Acceptable
		59293 HSNVLW 269.0	0.9259	1.0053 Acceptable
59294 [HSNVLS 269.000] TO BUS 59295 [HSNVL 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59290 BELTONS269.0	0.9460	0.9724 Acceptable
		59291 FREEMAN269.0	0.9120	0.9870 Acceptable
		59292 ANCONDA269.0	0.9033	1.0041 Acceptable
		59293 HSNVLW 269.0	0.9027	1.0053 Acceptable
		59294 HSNVLS 269.0	0.9018	1.0085 Acceptable
59295 [HSNVL 269.000] TO BUS 59296 [HSNVLSW269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59296 HSNVLSW269.0	0.9454	1.0092 Acceptable
		59297 HSNVLN 269.0	0.9466	1.0030 Acceptable
		59298 GRDNCTY269.0	0.9423	1.0063 Acceptable
		59299 SNCLRPS269.0	0.9423	1.0063 Acceptable
59307 [NEVPLT 269.000] TO BUS 59308 [NEVADA 269.000]	CKT 1 VOLTAGE GREATER THAN 1.0500:	59159 NEVADA#113.2	1.0640	1.0176 Switch
	VOLTAGE LESS THAN 0.9500:	59308 NEVADA 269.0	1.0640	1.0176 Switch
		59304 URICHTP269.0	0.9068	1.0078 Switch
		59305 URICH 269.0	0.9036	1.0049 Switch
		59306 APCITY 269.0	0.8482	1.0039 Switch
		59307 NEVPLT 269.0	0.7393	1.0136 Switch
		59311 NEVJCT 269.0	0.7364	1.0117 Switch
		59312 LAMAR 269.0	0.6902	0.9795 Switch
59308 [NEVADA 269.000] TO BUS 59309 [METZ 269.000]	CKT 1 VOLTAGE GREATER THAN 1.0500:	59159 NEVADA#113.2	1.0933	1.0176 LTC
		59307 NEVPLT 269.0	1.0879	1.0136 LTC
		59308 NEVADA 269.0	1.0933	1.0176 LTC
		59311 NEVJCT 269.0	1.0862	1.0117 LTC
		59312 LAMAR 269.0	1.0566	0.9795 LTC
59309 [METZ 269.000] TO BUS 59310 [3M 269.000]	CKT 1 VOLTAGE GREATER THAN 1.0500:	59159 NEVADA#113.2	1.0772	1.0176 LTC
		59258 WALKER 269.0	1.0630	0.9837 LTC
		59259 DEDRCK 269.0	1.0530	0.9729 LTC
		59307 NEVPLT 269.0	1.0721	1.0136 LTC
		59308 NEVADA 269.0	1.0772	1.0176 LTC
		59309 METZ 269.0	1.0712	0.9928 LTC
		59311 NEVJCT 269.0	1.0704	1.0117 LTC
59242 [CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59208 NEVADA 5 161	0.9368	0.9604 Accept Risk
		59242 CLINTON5 161	0.7785	1.0147 Accept Risk
		59256 KAMOTP 269.0	0.9040	0.9656 Accept Risk
		59257 ELDRDO 269.0	0.9019	0.9636 Accept Risk
		59258 WALKER 269.0	0.9234	0.9837 Accept Risk
		59259 DEDRCK 269.0	0.9118	0.9729 Accept Risk
		59300 POSTOAK269.0	0.8714	1.0061 Accept Risk
		59301 CLNTPLT269.0	0.8107	1.0159 Accept Risk
		59302 CLNTGRN269.0	0.8089	1.0160 Accept Risk
		59303 CLINTON269.0	0.8100	1.0205 Accept Risk
		59304 URICHTP269.0	0.8342	1.0078 Accept Risk
		59305 URICH 269.0	0.8307	1.0049 Accept Risk
		59306 APCITY 269.0	0.8611	1.0039 Accept Risk
		59309 METZ 269.0	0.9331	0.9928 Accept Risk
		59310 3M 269.0	0.9254	0.9856 Accept Risk
		59311 NEVJCT 269.0	0.9489	1.0117 Accept Risk
		59312 LAMAR 269.0	0.9143	0.9795 Accept Risk

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
SPP-12									
59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2	0.9436	1.0176	Generation		
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1		59208	NEVADA 5 161	0.8972	0.9604	Generation		
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1		59216	BUTLER_5 161	0.8560	0.9796	Generation		
			59256	KAMOTP 269.0	0.8871	0.9656	Generation		
			59257	ELDRDO 269.0	0.8849	0.9636	Generation		
			59258	WALKER 269.0	0.9068	0.9837	Generation		
			59259	DEDRCK 269.0	0.8950	0.9729	Generation		
			59307	NEVPLT 269.0	0.9405	1.0136	Generation		
			59308	NEVADA 269.0	0.9436	1.0176	Generation		
			59309	METZ 269.0	0.9166	0.9928	Generation		
			59310	3M 269.0	0.9088	0.9856	Generation		
			59311	NEVJCT 269.0	0.9384	1.0117	Generation		
			59312	LAMAR 269.0	0.9034	0.9795	Generation		
<b>2006 SUMMER PEAK, EMPIRE DISTRICT ELECTRIC - AREA 544</b>									
VOLTAGE LESS THAN 0.9500:									
BASE CASE									
			59404	PUR390 269.0	0.9476	0.9476	above .90		
			59416	CHE299T134.5	0.9088	0.9088	above .90		
			59417	CHE299 134.5	0.9049	0.9049	above .90		
			59418	CHE300 134.5	0.9082	0.9082	above .90		
			59419	TWN388 134.5	0.9073	0.9073	above .90		
			59420	WEL186 134.5	0.8820	0.8820	provide solut.		
			59640	COL318 134.5	0.9469	0.9469	above .90		
59433	[STRKAMO269.000] TO BUS 59604 [BHZ415 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59433	STRKAMO269.0	0.9422	0.9634	above .90		
59436	[CUPTAP 269.000] TO BUS 59585 [DAD368 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59436	CUPTAP 269.0	0.9464	0.9983	above .90		
			59437	CUPSUB 269.0	0.9459	0.9977	above .90		
			59598	LKW400 269.0	0.9497	0.9728	above .90		
59464	[BOL 73 5161.00] TO BUS 59528 [BOL 73 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59425	HER209 269.0	0.8662	0.9801	capacitor 69kv		
			59432	BUF243J269.0	0.8859	0.9614	capacitor 69kv		
			59433	STRKAMO269.0	0.9147	0.9634	above .90		
			59434	BUF409 269.0	0.8682	0.9555	capacitor 69kv		
			59528	BOL 73 269.0	0.8929	1.0033	capacitor 69kv		
			59529	SED 80 269.0	0.9272	0.9754	above .90		
			59542	NIC170 269.0	0.9463	0.9759	above .90		
			59545	FRP217 269.0	0.9299	0.9897	above .90		
			59547	BUF243 269.0	0.8857	0.9613	capacitor 69kv		
			59567	BRT323 269.0	0.9088	0.9857	above .90		
			59572	FGC333 269.0	0.8883	0.9615	capacitor 69kv		
			59575	BUF342 269.0	0.8771	0.9637	capacitor 69kv		
			59576	REP345 269.0	0.9459	0.9663	above .90		
			59584	BOL367 269.0	0.8955	0.9891	capacitor 69kv		
			59586	WIL445 269.0	0.9354	0.9724	above .90		
			59587	STR370 269.0	0.9059	0.9617	above .90		
			59596	FRG397 269.0	0.9047	0.9631	above .90		
			59612	BOL602 269.0	0.8986	0.9870	capacitor 69kv		
			59637	HUM308 134.5	0.9267	0.9671	above .90		
			59639	DUN283 134.5	0.9408	0.9897	above .90		
			59640	COL318 134.5	0.9056	0.9469	above .90		
			59691	WIL369 269.0	0.9329	0.9701	above .90		

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59469	[RIV167 5161.00] TO BUS 59487 [HOC404 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59416	CHE299T	134.5	0.8879	0.9088	provide solut.
				59417	CHE299	134.5	0.8838	0.9049	provide solut.
				59418	CHE300	134.5	0.8872	0.9082	provide solut.
				59419	TWN388	134.5	0.8862	0.9073	provide solut.
				59420	WEL186	134.5	0.8604	0.8820	provide solut.
				59487	HOC404	5 161	0.9484	0.9812	above .90
59474	[OZD312 5161.00] TO BUS 59562 [OZD312 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59562	OZD312	269.0	0.9430	1.0066	above .90
				59603	FOR410	269.0	0.9430	1.0051	above .90
59478	[DAD368 5161.00] TO BUS 59493 [BOL431 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59425	HER209	269.0	0.9306	0.9801	above .90
				59432	BUF243J	269.0	0.9330	0.9614	above .90
				59434	BUF409	269.0	0.9208	0.9555	above .90
				59547	BUF243	269.0	0.9329	0.9613	above .90
				59572	FGC333	269.0	0.9354	0.9615	above .90
				59575	BUF342	269.0	0.9292	0.9637	above .90
				59584	BOL367	269.0	0.9465	0.9891	above .90
				59587	STR370	269.0	0.9405	0.9617	above .90
				59596	FRG397	269.0	0.9410	0.9631	above .90
				59612	BOL602	269.0	0.9463	0.9870	above .90
				59637	HUM308	134.5	0.9406	0.9671	above .90
59478	[DAD368 5161.00] TO BUS 59585 [DAD368 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59436	CUPTAP	269.0	0.9497	0.9983	above .90
				59437	CUPSUB	269.0	0.9492	0.9977	above .90
				59536	ASH121	269.0	0.9491	0.9780	above .90
				59586	WIL445	269.0	0.9491	0.9724	above .90
				59637	HUM308	134.5	0.9422	0.9671	above .90
				59640	COL318	134.5	0.9217	0.9469	above .90
				59691	WIL369	269.0	0.9467	0.9701	above .90
59480	[MON383 5161.00] TO BUS 59591 [MON383 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59400	MON376J	269.0	0.9067	0.9788	above .90
				59401	MON376	269.0	0.9053	0.9775	above .90
				59402	MON416J	269.0	0.9001	0.9727	above .90
				59403	MON416	269.0	0.8998	0.9724	capacitor 69kv
				59404	PUR390	269.0	0.8727	0.9476	capacitor 69kv
				59405	MON352J	269.0	0.9313	1.0012	above .90
				59406	MON352	269.0	0.9311	1.0011	above .90
				59407	MON311J	269.0	0.9298	0.9998	above .90
				59408	MON311	269.0	0.9297	0.9997	above .90
				59422	GNB347	269.0	0.9471	0.9684	above .90
				59430	SAR362	269.0	0.9387	0.9803	above .90
				59540	MON152	269.0	0.9375	1.0023	above .90
				59544	WEN205	269.0	0.9418	0.9895	above .90
				59582	SAR362T	269.0	0.9454	0.9867	above .90
				59591	MON383	269.0	0.9360	1.0056	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59487	[HOC404 5161.00]	TO BUS 59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59409	SCAM66 269.0	0.9449	0.9775 above .90
						59410	COL282T269.0	0.9458	0.9784 above .90
						59411	COL282 269.0	0.9396	0.9723 above .90
						59412	SEK225T269.0	0.9438	0.9765 above .90
						59413	SEK225 269.0	0.9437	0.9764 above .90
						59414	SMN425 269.0	0.9423	0.9750 above .90
						59415	SHR444 269.0	0.9427	0.9754 above .90
						59416	CHE299T134.5	0.8610	0.9088 provide solut.
						59417	CHE299 134.5	0.8569	0.9049 provide solut.
						59418	CHE300 134.5	0.8604	0.9082 provide solut.
						59419	TWN388 134.5	0.8594	0.9073 provide solut.
						59420	WEL186 134.5	0.8328	0.8820 provide solut.
						59427	COM381 269.0	0.9421	0.9854 above .90
						59590	QUA377 269.0	0.9495	0.9946 above .90
59488	[BRN412 5161.00]	TO BUS 59492	[RDS424 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59492	RDS424 5 161	0.9356	0.9567 above .90
59524	[NEO 56 269.000]	TO BUS 59563	[LIN314 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59426	SEN375 269.0	0.9478	0.9691 above .90
						59524	NEO 56 269.0	0.9406	0.9831 above .90
59528	[BOL 73 269.000]	TO BUS 59575	[BUF342 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59432	BUF243J269.0	0.8990	0.9614 capacitor 69kv
						59433	STRKAMO269.0	0.9341	0.9634 above .90
						59434	BUF409 269.0	0.8751	0.9555 capacitor 69kv
						59547	BUF243 269.0	0.8988	0.9613 capacitor 69kv
						59572	FGC333 269.0	0.9029	0.9615 above .90
						59575	BUF342 269.0	0.8840	0.9637 capacitor 69kv
						59587	STR370 269.0	0.9275	0.9617 above .90
						59596	FRG397 269.0	0.9270	0.9631 above .90
59528	[BOL 73 269.000]	TO BUS 59584	[BOL367 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59545	FRP217 269.0	0.9434	0.9897 above .90
						59584	BOL367 269.0	0.9146	0.9891 above .90
						59612	BOL602 269.0	0.9169	0.9870 above .90
						59637	HUM308 134.5	0.9364	0.9671 above .90
						59640	COL318 134.5	0.9158	0.9469 above .90
59529	[SED 80 269.000]	TO BUS 59596	[FRG397 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59432	BUF243J269.0	0.9414	0.9614 above .90
						59433	STRKAMO269.0	0.9423	0.9634 above .90
						59547	BUF243 269.0	0.9412	0.9613 above .90
						59572	FGC333 269.0	0.9402	0.9615 above .90
						59587	STR370 269.0	0.9368	0.9617 above .90
						59596	FRG397 269.0	0.9367	0.9631 above .90
						59640	COL318 134.5	0.9198	0.9469 above .90
59532	[CAR108 269.000]	TO BUS 59533	[ATL109 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59532	CAR108 269.0	0.9474	0.9771 above .90
						59599	JAS403 269.0	0.9467	0.9717 above .90
						59600	JAS403T269.0	0.9474	0.9723 above .90
59536	[ASH121 269.000]	TO BUS 59585	[DAD368 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59536	ASH121 269.0	0.9482	0.9780 above .90
						59586	WIL445 269.0	0.9492	0.9724 above .90
						59691	WIL369 269.0	0.9468	0.9701 above .90
59536	[ASH121 269.000]	TO BUS 59586	[WIL445 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59586	WIL445 269.0	0.9484	0.9724 above .90
						59691	WIL369 269.0	0.9459	0.9701 above .90
59537	[AUR124 269.000]	TO BUS 59578	[AUR355 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364 269.0	0.9459	0.9738 above .90
						59553	ALB262 269.0	0.9489	0.9767 above .90
						59577	MTV351 269.0	0.9356	0.9754 above .90
						59578	AUR355 269.0	0.9247	0.9870 above .90
						59606	MTV420 269.0	0.9343	0.9761 above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
59538	[DIA131 269.000]	TO BUS 59595	[RNM393 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59421	GNB347J	269.0	0.9257	0.9803	above .90
						59422	GNB347	269.0	0.9131	0.9684	above .90
						59423	DIA242	269.0	0.9251	0.9797	above .90
						59430	SAR362	269.0	0.9440	0.9803	above .90
						59538	DIA131	269.0	0.9312	0.9854	above .90
59541	[RIV167 269.000]	TO BUS 59602	[RIV406 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59416	CHE299T	134.5	0.8872	0.9088	provide solut.
						59417	CHE299	134.5	0.8833	0.9049	provide solut.
						59418	CHE300	134.5	0.8866	0.9082	provide solut.
						59419	TWN388	134.5	0.8856	0.9073	provide solut.
						59420	WEL186	134.5	0.8600	0.8820	provide solut.
						59429	BAX291	269.0	0.9495	0.9826	above .90
59543	[NEO184 269.000]	TO BUS 59560	[ROC296 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59560	ROC296	269.0	0.9449	0.9832	above .90
						59597	NEO398	269.0	0.9467	0.9830	above .90
59543	[NEO184 269.000]	TO BUS 59563	[LIN314 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59426	SEN375	269.0	0.9318	0.9691	above .90
						59524	NEO 56	269.0	0.9087	0.9831	above .90
						59563	LIN314	269.0	0.9067	0.9866	above .90
						59589	RAC375	269.0	0.9462	0.9828	above .90
59545	[FRP217 269.000]	TO BUS 59635	[FRP217 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59635	FRP217	134.5	0.8486	1.0135	provide solut.
						59637	HUM308	134.5	0.8498	0.9671	provide solut.
						59639	DUN283	134.5	0.8485	0.9897	provide solut.
						59640	COL318	134.5	0.8265	0.9469	provide solut.
						59641	CAP304	134.5	0.9410	1.0033	above .90
59546	[BIL221 269.000]	TO BUS 59580	[REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59542	NIC170	269.0	0.9467	0.9759	above .90
						59576	REP345	269.0	0.9078	0.9663	above .90
						59580	REP359	269.0	0.8879	0.9611	capacitor 69kv
59554	[BAX271 269.000]	TO BUS 59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59411	COL282	269.0	0.9494	0.9723	above .90
						59416	CHE299T	134.5	0.8755	0.9088	provide solut.
						59417	CHE299	134.5	0.8714	0.9049	provide solut.
						59418	CHE300	134.5	0.8749	0.9082	provide solut.
						59419	TWN388	134.5	0.8738	0.9073	provide solut.
						59420	WEL186	134.5	0.8477	0.8820	provide solut.
59562	[OZD312 269.000]	TO BUS 59603	[FOR410 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59603	FOR410	269.0	0.9419	1.0051	above .90
59568	[STK324 269.000]	TO BUS 59616	[STK631J269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59568	STK324	269.0	0.8979	0.9905	capacitor 69kv
						59637	HUM308	134.5	0.9237	0.9671	above .90
						59638	STK324	134.5	0.9221	1.0232	above .90
						59640	COL318	134.5	0.9029	0.9469	above .90
						59641	CAP304	134.5	0.9219	1.0033	above .90
59568	[STK324 269.000]	TO BUS 59638	[STK324 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59637	HUM308	134.5	0.9290	0.9671	above .90
						59638	STK324	134.5	0.9285	1.0232	above .90
						59640	COL318	134.5	0.9086	0.9469	above .90
						59641	CAP304	134.5	0.9283	1.0033	above .90
59570	[OZK330 269.000]	TO BUS 59604	[BHI415 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59570	OZK330	269.0	0.8604	0.9895	capacitor 69kv
						59609	OZK434	269.0	0.8656	0.9858	capacitor 69kv
59570	[OZK330 269.000]	TO BUS 59609	[OZK434 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59609	OZK434	269.0	0.9370	0.9858	above .90
59587	[STR370 269.000]	TO BUS 59596	[FRG397 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59433	STRKAMO	269.0	0.9383	0.9634	above .90
						59587	STR370	269.0	0.9327	0.9617	above .90
59590	[QUA377 269.000]	TO BUS 59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59427	COM381	269.0	0.9035	0.9854	above .90
						59579	COM381T	269.0	0.9121	0.9933	above .90
						59590	QUA377	269.0	0.9097	0.9946	above .90



VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59598	[LKW400 269.000]	TO BUS	59613 [GRN614 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59550 GLD251 269.0	0.9437	0.9702 above .90
							59598 LKW400 269.0	0.9393	0.9728 above .90
59605	[STK418 269.000]	TO BUS	59614 [SK631CJ269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59548 BOS249 269.0	0.9430	0.9711 above .90
							59549 ARC250 269.0	0.9190	0.9841 above .90
							59550 GLD251 269.0	0.9337	0.9702 above .90
							59568 STK324 269.0	0.9105	0.9905 above .90
							59598 LKW400 269.0	0.9284	0.9728 above .90
							59613 GRN614 269.0	0.9280	0.9770 above .90
							59614 SK631CJ269.0	0.9098	0.9913 above .90
							59616 STK631J269.0	0.9105	0.9907 above .90
							59637 HUM308 134.5	0.9284	0.9671 above .90
							59638 STK324 134.5	0.9425	1.0232 above .90
							59640 COL318 134.5	0.9078	0.9469 above .90
							59641 CAP304 134.5	0.9376	1.0033 above .90
59635	[FRP217 134.500]	TO BUS	59639 [DUN283 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.8481	0.9671 provide solut.
							59639 DUN283 134.5	0.8464	0.9897 provide solut.
							59640 COL318 134.5	0.8246	0.9469 provide solut.
							59641 CAP304 134.5	0.9404	1.0033 above .90
59637	[HUM308 134.500]	TO BUS	59639 [DUN283 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.8544	0.9671 provide solut.
							59640 COL318 134.5	0.8311	0.9469 provide solut.
							59641 CAP304 134.5	0.9433	1.0033 above .90
59637	[HUM308 134.500]	TO BUS	59641 [CAP304 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.9291	0.9671 above .90
							59640 COL318 134.5	0.9087	0.9469 above .90
59638	[STK324 134.500]	TO BUS	59641 [CAP304 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.9275	0.9671 above .90
							59640 COL318 134.5	0.9070	0.9469 above .90
							59641 CAP304 134.5	0.9261	1.0033 above .90
59484	[DEC392 5161.00]	TO BUS	53139 [FLINTCR5161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59428 SWC414 269.0	0.9461	0.9883 above .90
							59569 DEC326 269.0	0.9479	1.0088 above .90
							59594 DEC392 269.0	0.9493	1.0118 above .90
							59617 GRA700 269.0	0.9467	1.0025 above .90
59497	[RVS438 5161.00]	TO BUS	52672 [TABLE R5161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59473 RDS295 5 161	0.9260	0.9580 above .90
							59474 OZD312 5 161	0.9206	0.9651 above .90
							59475 BRN331 5 161	0.9183	0.9627 above .90
							59482 HOL387 5 161	0.9186	0.9672 above .90
							59488 BRN412 5 161	0.9183	0.9627 above .90
							59489 BRN413 5 161	0.9169	0.9665 above .90
							59492 RDS424 5 161	0.9223	0.9567 above .90
							59495 GRT433 5 161	0.9173	0.9643 above .90
							59497 RVS438 5 161	0.9171	0.9695 above .90
							59648 OZD312 14.60	0.9443	0.9880 above .90
59605	[STK418 269.000]	TO BUS	96118 [5STKAEC 161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59548 BOS249 269.0	0.9431	0.9711 above .90
							59549 ARC250 269.0	0.9191	0.9841 above .90
							59550 GLD251 269.0	0.9337	0.9702 above .90
							59568 STK324 269.0	0.9107	0.9905 above .90
							59598 LKW400 269.0	0.9284	0.9728 above .90
							59605 STK418 269.0	0.9100	0.9927 above .90
							59613 GRN614 269.0	0.9281	0.9770 above .90
							59614 SK631CJ269.0	0.9100	0.9913 above .90
							59616 STK631J269.0	0.9107	0.9907 above .90
							59637 HUM308 134.5	0.9285	0.9671 above .90
							59638 STK324 134.5	0.9427	1.0232 above .90
							59640 COL318 134.5	0.9079	0.9469 above .90
							59641 CAP304 134.5	0.9377	1.0033 above .90

VOLTAGE REPORT TABLE

( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT
CONTINGENCY SPP-12				
59207 [ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.9443	0.9671 above .90
59216 [BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1		59640 COL318 134.5	0.9236	0.9469 above .90
59208 [NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1				

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( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT
69703 [ST JOE 5161.00] TO BUS 69708 [WOODBIN5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	69704 EAST 5 161	0.9494	1.0020 Acceptable
		69708 WOODBIN5 161	0.9492	1.0063 Acceptable

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( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT
59207 [ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59216 BUTLER_5 161	0.9462	1.0058 Acceptable
		59240 ADRIAN 5 161	0.9452	1.0115 Acceptable
		59256 KAMOTP 269.0	0.9314	0.9803 Acceptable
		59257 ELDRDO 269.0	0.9300	0.9791 Acceptable
		59258 WALKER 269.0	0.9434	0.9918 Acceptable
		59259 DEDRCK 269.0	0.9363	0.9850 Acceptable
		59309 METZ 269.0	0.9494	0.9974 Acceptable
		59310 3M 269.0	0.9445	0.9927 Acceptable
		59312 LAMAR 269.0	0.9416	0.9892 Acceptable
59208 [NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59256 KAMOTP 269.0	0.9482	0.9803 Acceptable
		59257 ELDRDO 269.0	0.9469	0.9791 Acceptable
59216 [BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59256 KAMOTP 269.0	0.9373	0.9803 Acceptable
		59257 ELDRDO 269.0	0.9360	0.9791 Acceptable
		59258 WALKER 269.0	0.9493	0.9918 Acceptable
		59259 DEDRCK 269.0	0.9422	0.9850 Acceptable
		59312 LAMAR 269.0	0.9474	0.9892 Acceptable
59225 [PHILL 5161.00] TO BUS 59280 [PHILL 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59154 RGREEN#313.2	0.9480	1.0086 Acceptable
		59279 RGREEN 269.0	0.9480	1.0086 Acceptable
		59280 PHILL 269.0	0.9477	1.0104 Acceptable
		59290 BELTONS269.0	0.9450	0.9862 Acceptable
59286 [GRDWST 269.000] TO BUS 59287 [MARTCTY269.000] CKT 1	VOLTAGE GREATER THAN 1.0500:	59287 MARTCTY269.0	1.0560	1.0130 LTC
59294 [HSNVLS 269.000] TO BUS 59295 [HSNVL 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59292 ANCONDA269.0	0.9462	1.0043 Acceptable
		59293 HSNVLW 269.0	0.9459	1.0050 Acceptable
		59294 HSNVLS 269.0	0.9453	1.0069 Acceptable
59307 [NEVPLT 269.000] TO BUS 59308 [NEVADA 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59306 APCITY 269.0	0.9324	1.0037 Switch
		59307 NEVPLT 269.0	0.8795	1.0106 Switch
		59311 NEVJCT 269.0	0.8781	1.0095 Switch
		59312 LAMAR 269.0	0.8543	0.9892 Switch
59308 [NEVADA 269.000] TO BUS 59309 [METZ 269.000] CKT 1	VOLTAGE GREATER THAN 1.0500:	59159 NEVADA#113.2	1.0519	1.0131 LTC
		59308 NEVADA 269.0	1.0519	1.0131 LTC
59242 [CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59242 CLINTON5 161	0.9038	1.0245 Acceptable
		59300 POSTOAK269.0	0.9407	1.0059 Acceptable
		59301 CLNTPLT269.0	0.9068	1.0088 Acceptable
		59302 CLNTGRN269.0	0.9058	1.0087 Acceptable
		59303 CLINTON269.0	0.9065	1.0115 Acceptable
		59304 URICHTP269.0	0.9209	1.0052 Acceptable
		59305 URICH 269.0	0.9189	1.0033 Acceptable
		59306 APCITY 269.0	0.9365	1.0037 Acceptable

VOLTAGE REPORT TABLE

( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT
CONTINGENCY SPP-12				
59207 [ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59216 BUTLER_5 161	0.9190	1.0058 Acceptable
59216 [BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1		59256 KAMOTP 269.0	0.9388	0.9803 Acceptable
59208 [NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00] CKT 1		59257 ELDRDO 269.0	0.9375	0.9791 Acceptable
		59259 DEDRCK 269.0	0.9437	0.9850 Acceptable
		59312 LAMAR 269.0	0.9488	0.9892 Acceptable

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( OUTAGED BRANCH )	( VOLTAGE RANGE )	( X---- BUS ----X )	V-CONT	V-INIT
BASE CASE				
	VOLTAGE LESS THAN 0.9500:	59420 WEL186 134.5	0.9404	0.9404 above .90
		59640 COL318 134.5	0.9351	0.9351 above .90
59436 [CUPTAP 269.000] TO BUS 59585 [DAD368 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59436 CUPTAP 269.0	0.9429	1.0035 above .90
		59437 CUPSUB 269.0	0.9426	1.0033 above .90
		59598 LKW400 269.0	0.9463	0.9733 above .90
		59613 GRN614 269.0	0.9451	0.9754 above .90
59436 [CUPTAP 269.000] TO BUS 59613 [GRN614 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59598 LKW400 269.0	0.9464	0.9733 above .90
		59613 GRN614 269.0	0.9452	0.9754 above .90
59464 [BOL 73 5161.00] TO BUS 59528 [BOL 73 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59425 HER209 269.0	0.8640	0.9887 capacitor 69kv
		59432 BUF243J 269.0	0.8841	0.9684 capacitor 69kv
		59433 STRKAMO269.0	0.9210	0.9753 above .90
		59434 BUF409 269.0	0.8641	0.9612 capacitor 69kv
		59528 BOL 73 269.0	0.8864	1.0078 capacitor 69kv
		59529 SED 80 269.0	0.9337	0.9876 above .90
		59545 FRP217 269.0	0.9237	0.9905 above .90
		59547 BUF243 269.0	0.8839	0.9683 capacitor 69kv
		59567 BRT323 269.0	0.9089	0.9941 above .90
		59572 FGC333 269.0	0.8870	0.9688 capacitor 69kv
		59575 BUF342 269.0	0.8735	0.9696 capacitor 69kv
		59584 BOL367 269.0	0.8837	0.9875 capacitor 69kv
		59586 WIL445 269.0	0.9455	0.9866 above .90
		59587 STR370 269.0	0.9104	0.9727 above .90
		59596 FRG397 269.0	0.9080	0.9733 above .90
		59612 BOL602 269.0	0.8875	0.9856 capacitor 69kv
		59635 FRP217 134.5	0.9468	1.0103 above .90
		59637 HUM308 134.5	0.9071	0.9527 above .90
		59639 DUN283 134.5	0.9256	0.9803 above .90
		59640 COL318 134.5	0.8885	0.9351 provide solut.
		59691 WIL369 269.0	0.9441	0.9853 above .90
59474 [OZD312 5161.00] TO BUS 59562 [OZD312 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59562 OZD312 269.0	0.9499	1.0131 above .90
		59603 FOR410 269.0	0.9499	1.0117 above .90
59478 [DAD368 5161.00] TO BUS 59585 [DAD368 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5	0.9274	0.9527 above .90
		59640 COL318 134.5	0.9093	0.9351 above .90
59480 [MON383 5161.00] TO BUS 59591 [MON383 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59401 MON376 269.0	0.9498	0.9915 above .90
		59402 MON416J 269.0	0.9461	0.9880 above .90
		59403 MON416 269.0	0.9458	0.9878 above .90
		59404 PUR390 269.0	0.9276	0.9705 above .90
59487 [HOC404 5161.00] TO BUS 59601 [HOC404 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59416 CHE299T 134.5	0.9315	0.9584 above .90
		59417 CHE299 134.5	0.9288	0.9557 above .90
		59418 CHE300 134.5	0.9311	0.9580 above .90
		59419 TWN388 134.5	0.9304	0.9574 above .90
		59420 WEL186 134.5	0.9131	0.9404 above .90

**VOLTAGE REPORT TABLE**

59528 [BOL 73 269.000] TO BUS 59575 [BUF342 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59432 BUF243J269.0 0.9065	0.9684 above .90
	59433 STRKAMO269.0 0.9463	0.9753 above .90
	59434 BUF409 269.0 0.8817	0.9612 capacitor 69kv
	59547 BUF243 269.0 0.9063	0.9683 above .90
	59572 FGC333 269.0 0.9104	0.9688 above .90
	59575 BUF342 269.0 0.8909	0.9696 capacitor 69kv
	59587 STR370 269.0 0.9388	0.9727 above .90
	59596 FRG397 269.0 0.9376	0.9733 above .90
59528 [BOL 73 269.000] TO BUS 59584 [BOL367 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59545 FRP217 269.0 0.9203	0.9905 above .90
	59584 BOL367 269.0 0.8749	0.9875 capacitor 69kv
	59612 BOL602 269.0 0.8796	0.9856 capacitor 69kv
	59635 FRP217 134.5 0.9447	1.0103 above .90
	59637 HUM308 134.5 0.9048	0.9527 above .90
	59639 DUN283 134.5 0.9234	0.9803 above .90
	59640 COL318 134.5 0.8862	0.9351 provide solut.
59529 [SED 80 269.000] TO BUS 59596 [FRG397 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59432 BUF243J269.0 0.9452	0.9684 above .90
	59547 BUF243 269.0 0.9451	0.9683 above .90
	59572 FGC333 269.0 0.9442	0.9688 above .90
	59587 STR370 269.0 0.9441	0.9727 above .90
	59596 FRG397 269.0 0.9430	0.9733 above .90
59538 [DIA131 269.000] TO BUS 59595 [RNM393 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59421 GNB347J269.0 0.9466	0.9898 above .90
	59422 GNB347 269.0 0.9368	0.9800 above .90
	59423 DIA242 269.0 0.9461	0.9892 above .90
59543 [NEO184 269.000] TO BUS 59563 [LIN314 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59426 SEN375 269.0 0.9484	0.9758 above .90
	59524 NEO 56 269.0 0.9296	0.9848 above .90
	59563 LIN314 269.0 0.9278	0.9874 above .90
59545 [FRP217 269.000] TO BUS 59585 [DAD368 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5 0.9273	0.9527 above .90
	59639 DUN283 134.5 0.9495	0.9803 above .90
	59640 COL318 134.5 0.9093	0.9351 above .90
59545 [FRP217 269.000] TO BUS 59635 [FRP217 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59635 FRP217 134.5 0.7866	1.0103 provide solut.
	59637 HUM308 134.5 0.7896	0.9527 provide solut.
	59639 DUN283 134.5 0.7866	0.9803 provide solut.
	59640 COL318 134.5 0.7681	0.9351 provide solut.
	59641 CAP304 134.5 0.9102	0.9959 above .90
59546 [BIL221 269.000] TO BUS 59580 [REP359 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59576 REP345 269.0 0.9487	0.9822 above .90
	59580 REP359 269.0 0.9360	0.9785 above .90
59562 [OZD312 269.000] TO BUS 59603 [FOR410 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59603 FOR410 269.0 0.9489	1.0117 above .90
59568 [STK324 269.000] TO BUS 59616 [STK631J269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59568 STK324 269.0 0.8748	0.9883 capacitor 69kv
	59637 HUM308 134.5 0.8985	0.9527 provide solut.
	59638 STK324 134.5 0.8982	1.0197 provide solut.
	59639 DUN283 134.5 0.9495	0.9803 above .90
	59640 COL318 134.5 0.8806	0.9351 provide solut.
	59641 CAP304 134.5 0.8980	0.9959 provide solut.
59568 [STK324 269.000] TO BUS 59638 [STK324 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5 0.8994	0.9527 provide solut.
	59638 STK324 134.5 0.8993	1.0197 provide solut.
	59640 COL318 134.5 0.8815	0.9351 provide solut.
	59641 CAP304 134.5 0.8990	0.9959 provide solut.
59570 [OZK330 269.000] TO BUS 59604 [BHJ415 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59570 OZK330 269.0 0.8754	0.9995 capacitor 69kv
	59609 OZK434 269.0 0.8798	0.9953 capacitor 69kv
59570 [OZK330 269.000] TO BUS 59609 [OZK434 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59609 OZK434 269.0 0.9404	0.9953 above .90
59590 [QUA377 269.000] TO BUS 59601 [HOC404 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59427 COM381 269.0 0.9319	0.9963 above .90
	59579 COM381T269.0 0.9369	1.0010 above .90
	59590 QUA377 269.0 0.9350	1.0021 above .90

VOLTAGE REPORT TABLE

59605 [STK418 269.000] TO BUS 59614 [SK631CJ269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59548 BOS249 269.0 0.9462	0.9750 above .90
	59549 ARC250 269.0 0.9160	0.9823 above .90
	59550 GLD251 269.0 0.9356	0.9729 above .90
	59568 STK324 269.0 0.9068	0.9883 above .90
	59598 LKW400 269.0 0.9282	0.9733 above .90
	59613 GRN614 269.0 0.9259	0.9754 above .90
	59614 SK631CJ269.0 0.9061	0.9891 above .90
	59616 STK631J269.0 0.9068	0.9885 above .90
	59637 HUM308 134.5 0.9122	0.9527 above .90
	59638 STK324 134.5 0.9388	1.0197 above .90
	59640 COL318 134.5 0.8942	0.9351 provide solut.
	59641 CAP304 134.5 0.9295	0.9959 above .90
59635 [FRP217 134.500] TO BUS 59639 [DUN283 134.500] CKT 1 VOLTAGE GREATER THAN 1.0500:	59635 FRP217 134.5 1.0502	1.0103 above .90
VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5 0.7892	0.9527 provide solut.
	59639 DUN283 134.5 0.7858	0.9803 provide solut.
	59640 COL318 134.5 0.7680	0.9351 provide solut.
	59641 CAP304 134.5 0.9099	0.9959 above .90
59637 [HUM308 134.500] TO BUS 59639 [DUN283 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5 0.8060	0.9527 provide solut.
	59640 COL318 134.5 0.7850	0.9351 provide solut.
	59641 CAP304 134.5 0.9184	0.9959 above .90
59637 [HUM308 134.500] TO BUS 59641 [CAP304 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5 0.9000	0.9527 provide solut.
	59640 COL318 134.5 0.8821	0.9351 provide solut.
59638 [STK324 134.500] TO BUS 59641 [CAP304 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59637 HUM308 134.5 0.8978	0.9527 provide solut.
	59639 DUN283 134.5 0.9490	0.9803 above .90
	59640 COL318 134.5 0.8799	0.9351 provide solut.
	59641 CAP304 134.5 0.8968	0.9959 provide solut.
59497 [RVS438 5161.00] TO BUS 52672 [TABLE R5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59473 RDS295 5 161 0.9442	0.9737 above .90
	59474 OZD312 5 161 0.9366	0.9773 above .90
	59475 BRN331 5 161 0.9346	0.9753 above .90
	59482 HOL387 5 161 0.9345	0.9788 above .90
	59488 BRN412 5 161 0.9347	0.9754 above .90
	59489 BRN413 5 161 0.9328	0.9780 above .90
	59492 RDS424 5 161 0.9407	0.9723 above .90
	59495 GRT433 5 161 0.9334	0.9764 above .90
	59497 RVS438 5 161 0.9329	0.9806 above .90
59605 [STK418 269.000] TO BUS 96118 [5STKAEC 161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59548 BOS249 269.0 0.9466	0.9750 above .90
	59549 ARC250 269.0 0.9154	0.9823 above .90
	59550 GLD251 269.0 0.9358	0.9729 above .90
	59568 STK324 269.0 0.9060	0.9883 above .90
	59598 LKW400 269.0 0.9281	0.9733 above .90
	59605 STK418 269.0 0.9053	0.9906 above .90
	59613 GRN614 269.0 0.9255	0.9754 above .90
	59614 SK631CJ269.0 0.9053	0.9891 above .90
	59616 STK631J269.0 0.9061	0.9885 above .90
	59637 HUM308 134.5 0.9098	0.9527 above .90
	59638 STK324 134.5 0.9377	1.0197 above .90
	59640 COL318 134.5 0.8913	0.9351 provide solut.
	59641 CAP304 134.5 0.9276	0.9959 above .90

VOLTAGE REPORT TABLE

2006 WINTER PEAK -ST. JOSEPH LIGHT AND POWER - AREA 679

NONE

2010 SUMMER PEAK -MISSOURI PUBLIC SERVICE - AREA 540

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
BASE CASE			VOLTAGE LESS THAN 0.9500:	59208	NEVADA	5	161	0.9452	0.9452 Acceptable
				59256	KAMOTP	269.0		0.9456	0.9456 Acceptable
				59257	ELDRDO	269.0		0.9433	0.9433 Acceptable
59207	[ARCHIE 5161.00] TO BUS 59240	[ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2			0.8750	1.0059 Generation
				59208	NEVADA	5	161	0.8386	0.9452 Generation
				59216	BUTLER_5	161		0.8288	0.9692 Generation
				59240	ADRIAN	5	161	0.8266	0.9433 Generation
				59256	KAMOTP	269.0		0.8034	0.9456 Generation
				59257	ELDRDO	269.0		0.8007	0.9433 Generation
				59258	WALKER	269.0		0.8284	0.9666 Generation
				59259	DEDRCK	269.0		0.8134	0.9540 Generation
				59304	URICHTP	269.0		0.9423	1.0015 Generation
				59305	URICH	269.0		0.9387	0.9981 Generation
				59306	APCITY	269.0		0.9111	0.9948 Generation
				59307	NEVPLT	269.0		0.8719	1.0015 Generation
				59308	NEVADA	269.0		0.8750	1.0059 Generation
				59309	METZ	269.0		0.8410	0.9772 Generation
				59310	3M	269.0		0.8313	0.9688 Generation
				59311	NEVJCT	269.0		0.8692	0.9992 Generation
				59312	LAMAR	269.0		0.8253	0.9619 Generation
59208	[NEVADA 5161.00] TO BUS 59216	[BUTLER_5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2			0.9263	1.0059 Not Valid
				59208	NEVADA	5	161	0.8799	0.9452 Not Valid
				59256	KAMOTP	269.0		0.8598	0.9456 Not Valid
				59257	ELDRDO	269.0		0.8572	0.9433 Not Valid
				59258	WALKER	269.0		0.8830	0.9666 Not Valid
				59259	DEDRCK	269.0		0.8691	0.9540 Not Valid
				59306	APCITY	269.0		0.9440	0.9948 Not Valid
				59307	NEVPLT	269.0		0.9227	1.0015 Not Valid
				59308	NEVADA	269.0		0.9263	1.0059 Not Valid
				59309	METZ	269.0		0.8946	0.9772 Not Valid
				59310	3M	269.0		0.8855	0.9688 Not Valid
				59311	NEVJCT	269.0		0.9202	0.9992 Not Valid
				59312	LAMAR	269.0		0.8792	0.9619 Not Valid
59208	[NEVADA 5161.00] TO BUS 59308	[NEVADA 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2			0.9217	1.0059 Generation
				59256	KAMOTP	269.0		0.8548	0.9456 Generation
				59257	ELDRDO	269.0		0.8522	0.9433 Generation
				59258	WALKER	269.0		0.8781	0.9666 Generation
				59259	DEDRCK	269.0		0.8641	0.9540 Generation
				59306	APCITY	269.0		0.9433	0.9948 Generation
				59307	NEVPLT	269.0		0.9183	1.0015 Generation
				59308	NEVADA	269.0		0.9217	1.0059 Generation
				59309	METZ	269.0		0.8899	0.9772 Generation
				59310	3M	269.0		0.8807	0.9688 Generation
				59311	NEVJCT	269.0		0.9158	0.9992 Generation
				59312	LAMAR	269.0		0.8746	0.9619 Generation

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59208	[NEVADA 5161.00] TO BUS 59308 [NEVADA 269.000] CKT 2	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2	0.9450	1.0059	Generation		
			59256	KAMOTP 269.0	0.8801	0.9456	Generation		
			59257	ELDRDO 269.0	0.8776	0.9433	Generation		
			59258	WALKER 269.0	0.9027	0.9666	Generation		
			59259	DEDRCK 269.0	0.8892	0.9540	Generation		
			59307	NEVPLT 269.0	0.9413	1.0015	Generation		
			59308	NEVADA 269.0	0.9450	1.0059	Generation		
			59309	METZ 269.0	0.9141	0.9772	Generation		
			59310	3M 269.0	0.9052	0.9688	Generation		
			59311	NEVJCT 269.0	0.9389	0.9992	Generation		
			59312	LAMAR 269.0	0.8989	0.9619	Generation		
59209	[SEDALIA5161.00] TO BUS 59217 [WINDSR 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59209	SEDALIA5 161	0.9437	0.9683	Acceptable		
			59241	SEDEAST5 161	0.9486	0.9701	Acceptable		
59210	[MARTCTY5161.00] TO BUS 59287 [MARTCTY269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59286	GRDWST 269.0	0.9487	1.0100	Acceptable		
			59287	MARTCTY269.0	0.9487	1.0189	Acceptable		
			59288	RGAFB 269.0	0.9465	0.9844	Acceptable		
			59289	BELTON 269.0	0.9455	0.9805	Acceptable		
			59290	BELTONS269.0	0.9450	0.9757	Acceptable		
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2	0.8986	1.0059	Not Valid		
			59208	NEVADA 5 161	0.8569	0.9452	Not Valid		
			59216	BUTLER_5 161	0.8515	0.9692	Not Valid		
			59256	KAMOTP 269.0	0.8298	0.9456	Not Valid		
			59257	ELDRDO 269.0	0.8272	0.9433	Not Valid		
			59258	WALKER 269.0	0.8538	0.9666	Not Valid		
			59259	DEDRCK 269.0	0.8394	0.9540	Not Valid		
			59305	URICH 269.0	0.9493	0.9981	Not Valid		
			59306	APCITY 269.0	0.9260	0.9948	Not Valid		
			59307	NEVPLT 269.0	0.8953	1.0015	Not Valid		
			59308	NEVADA 269.0	0.8986	1.0059	Not Valid		
			59309	METZ 269.0	0.8659	0.9772	Not Valid		
			59310	3M 269.0	0.8565	0.9688	Not Valid		
			59311	NEVJCT 269.0	0.8927	0.9992	Not Valid		
			59312	LAMAR 269.0	0.8504	0.9619	Not Valid		
59225	[PHILL 5161.00] TO BUS 59280 [PHILL 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59290	BELTONS269.0	0.9467	0.9757	Upgrade		
59228	[WBURGE 5161.00] TO BUS 59229 [ODESSA 5161.00] CKT 1	VOLTAGE LESS THAN 0.9500:	59228	WBURGE 5 161	0.9299	0.9600	Acceptable		
			59234	WAFB 5 161	0.9347	0.9609	Acceptable		
59229	[ODESSA 5161.00] TO BUS 59267 [ODESSA 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59267	ODESSA 269.0	0.9285	1.0147	Acceptable		
59239	[HSNVL 5161.00] TO BUS 59295 [HSNVL 269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59289	BELTON 269.0	0.9499	0.9805	Acceptable		
			59290	BELTONS269.0	0.9416	0.9757	Acceptable		
			59291	FREEMAN269.0	0.9195	0.9876	Acceptable		
			59292	ANCONDA269.0	0.9183	1.0047	Acceptable		
			59293	HSNVLW 269.0	0.9184	1.0059	Acceptable		
			59294	HSNVLS 269.0	0.9188	1.0092	Acceptable		
			59295	HSNVL 269.0	0.9205	1.0148	Acceptable		
			59296	HSNVLSW269.0	0.9221	1.0104	Acceptable		
			59297	HSNVLN 269.0	0.9263	1.0053	Acceptable		
			59298	GRDNCTY269.0	0.9185	1.0071	Acceptable		
			59299	SNCLRPS269.0	0.9185	1.0071	Acceptable		
59261	[LBRTYWT269.000] TO BUS 59262 [LIBERTY269.000] CKT 1	VOLTAGE GREATER THAN 1.0500:	59261	LBRTYWT269.0	1.0596	1.0139	LTC		
59269	[WBURGE 269.000] TO BUS 59270 [KNOSTER269.000] CKT 1	VOLTAGE LESS THAN 0.9500:	59270	KNOSTER269.0	0.9483	0.9997	Acceptable		

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59280	[PHILL 269.000]	TO BUS 59290	[BELTONS269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59288	RGAFB 269.0	0.9178	0.9844 Upgrade
						59289	BELTON 269.0	0.9093	0.9805 Upgrade
						59290	BELTONS269.0	0.8969	0.9757 Upgrade
						59291	FREEMAN269.0	0.9381	0.9876 Upgrade
59284	[GRDVWTP269.000]	TO BUS 59285	[GRDWCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY269.0	1.0558	1.0189 LTC
59284	[GRDVWTP269.000]	TO BUS 59288	[RGAFB 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59288	RGAFB 269.0	0.9139	0.9844 Acceptable
						59289	BELTON 269.0	0.9147	0.9805 Acceptable
						59290	BELTONS269.0	0.9174	0.9757 Acceptable
						59291	FREEMAN269.0	0.9478	0.9876 Acceptable
59285	[GRDWCTY269.000]	TO BUS 59286	[GRDWST 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59286	GRDWST 269.0	1.0723	1.0100 LTC
						59287	MARTCTY269.0	1.0761	1.0189 LTC
59286	[GRDWST 269.000]	TO BUS 59287	[MARTCTY269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59287	MARTCTY269.0	1.1039	1.0189 LTC
						VOLTAGE LESS THAN 0.9500:	59286	GRDWST 269.0	0.9486
							59288	RGAFB 269.0	0.9464
							59289	BELTON 269.0	0.9454
							59290	BELTONS269.0	0.9449
59288	[RGAFB 269.000]	TO BUS 59289	[BELTON 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59289	BELTON 269.0	0.9290	0.9805 Acceptable
						59290	BELTONS269.0	0.9303	0.9757 Acceptable
59289	[BELTON 269.000]	TO BUS 59290	[BELTONS269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59290	BELTONS269.0	0.9429	0.9757 Acceptable
59291	[FREEMAN269.000]	TO BUS 59292	[ANCONDA269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN269.0	0.9402	0.9876 Acceptable
59292	[ANCONDA269.000]	TO BUS 59293	[HSNVLW 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN269.0	0.9392	0.9876 Acceptable
						59292	ANCONDA269.0	0.9386	1.0047 Acceptable
59293	[HSNVLW 269.000]	TO BUS 59294	[HSNVLS 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59291	FREEMAN269.0	0.9301	0.9876 Acceptable
						59292	ANCONDA269.0	0.9265	1.0047 Acceptable
						59293	HSNVLW 269.0	0.9263	1.0059 Acceptable
59294	[HSNVLS 269.000]	TO BUS 59295	[HSNVL 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59290	BELTONS269.0	0.9496	0.9757 Upgrade
						59291	FREEMAN269.0	0.9106	0.9876 Upgrade
						59292	ANCONDA269.0	0.9005	1.0047 Upgrade
						59293	HSNVLW 269.0	0.8999	1.0059 Upgrade
						59294	HSNVLS 269.0	0.8989	1.0092 Upgrade
59301	[CLNTPLT269.000]	TO BUS 59304	[URICHTP269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59256	KAMOTP 269.0	0.9208	0.9456 Acceptable
						59257	ELDRDO 269.0	0.9184	0.9433 Acceptable
						59258	WALKER 269.0	0.9424	0.9666 Acceptable
						59259	DEDRCK 269.0	0.9294	0.9540 Acceptable
						59304	URICHTP269.0	0.9397	1.0015 Acceptable
						59305	URICH 269.0	0.9361	0.9981 Acceptable
						59306	APCITY 269.0	0.9437	0.9948 Acceptable
						59310	3M 269.0	0.9447	0.9688 Acceptable
						59312	LAMAR 269.0	0.9358	0.9619 Acceptable
59307	[NEVPLT 269.000]	TO BUS 59308	[NEVADA 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.0621	1.0059 LTC
						59308	NEVADA 269.0	1.0621	1.0059 LTC
						VOLTAGE LESS THAN 0.9500:	59304	URICHTP269.0	0.8622
							59305	URICH 269.0	0.8582
							59306	APCITY 269.0	0.7815
							59307	NEVPLT 269.0	0.6330
							59311	NEVJCT 269.0	0.6292
							59312	LAMAR 269.0	0.5707
59308	[NEVADA 269.000]	TO BUS 59309	[METZ 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2	1.1002	1.0059 LTC
						59307	NEVPLT 269.0	1.0942	1.0015 LTC
						59308	NEVADA 269.0	1.1002	1.0059 LTC
						59311	NEVJCT 269.0	1.0922	0.9992 LTC
						59312	LAMAR 269.0	1.0586	0.9619 LTC



VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59309	[METZ 269.000] TO BUS 59310 [3M 269.000]	CKT 1	VOLTAGE GREATER THAN 1.0500:	59159	NEVADA#113.2			1.0805	1.0059 LTC
				59258	WALKER 269.0			1.0643	0.9666 LTC
				59259	DEDRCK 269.0			1.0529	0.9540 LTC
				59307	NEVPLT 269.0			1.0748	1.0015 LTC
				59308	NEVADA 269.0			1.0805	1.0059 LTC
				59309	METZ 269.0			1.0737	0.9772 LTC
				59311	NEVJCT 269.0			1.0728	0.9992 LTC
59217	[WINDSR 5161.00] TO BUS 96071 [5CLINTN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59209	SEDALIA5 161			0.9412	0.9683 Acceptable
				59217	WINDSR 5 161			0.9388	0.9898 Acceptable
				59241	SEDEAST5 161			0.9464	0.9701 Acceptable
59241	[SEDEAST5161.00] TO BUS 31409 [OVERTON 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59241	SEDEAST5 161			0.9473	0.9701 Acceptable
59242	[CLINTON5161.00] TO BUS 96071 [5CLINTN 161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2			0.9209	1.0059 Accept Risk
				59208	NEVADA 5 161			0.9116	0.9452 Accept Risk
				59228	WBURGE 5 161			0.9347	0.9600 Accept Risk
				59234	WAFB 5 161			0.9394	0.9609 Accept Risk
				59242	CLINTON5 161			0.7093	1.0094 Accept Risk
				59256	KAMOTP 269.0			0.8538	0.9456 Accept Risk
				59257	ELDRDO 269.0			0.8512	0.9433 Accept Risk
				59258	WALKER 269.0			0.8772	0.9666 Accept Risk
				59259	DEDRCK 269.0			0.8632	0.9540 Accept Risk
				59268	WBURGP 269.0			0.9357	1.0085 Accept Risk
				59300	POSTOAK269.0			0.8269	1.0045 Accept Risk
				59301	CLNTPLT269.0			0.7477	1.0134 Accept Risk
				59302	CLNTGRN269.0			0.7454	1.0136 Accept Risk
				59303	CLINTON269.0			0.7469	1.0188 Accept Risk
				59304	URICHTP269.0			0.7742	1.0015 Accept Risk
				59305	URICH 269.0			0.7698	0.9981 Accept Risk
				59306	APCITY 269.0			0.8051	0.9948 Accept Risk
				59307	NEVPLT 269.0			0.9107	1.0015 Accept Risk
				59308	NEVADA 269.0			0.9209	1.0059 Accept Risk
				59309	METZ 269.0			0.8890	0.9772 Accept Risk
				59310	3M 269.0			0.8798	0.9688 Accept Risk
				59311	NEVJCT 269.0			0.9082	0.9992 Accept Risk
				59312	LAMAR 269.0			0.8665	0.9619 Accept Risk
CONTINGENCY SPP-12									
59207	[ARCHIE 5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1	VOLTAGE LESS THAN 0.9500:	59159	NEVADA#113.2			0.9021	1.0059 Generation
59216	[BUTLER_5161.00] TO BUS 59240 [ADRIAN 5161.00]	CKT 1		59208	NEVADA 5 161			0.8609	0.9452 Generation
59208	[NEVADA 5161.00] TO BUS 59216 [BUTLER_5161.00]	CKT 1		59216	BUTLER_5 161			0.8175	0.9692 Generation
				59256	KAMOTP 269.0			0.8333	0.9456 Generation
				59257	ELDRDO 269.0			0.8307	0.9433 Generation
				59258	WALKER 269.0			0.8573	0.9666 Generation
				59259	DEDRCK 269.0			0.8429	0.9540 Generation
				59305	URICH 269.0			0.9499	0.9981 Generation
				59306	APCITY 269.0			0.9273	0.9948 Generation
				59307	NEVPLT 269.0			0.8987	1.0015 Generation
				59308	NEVADA 269.0			0.9021	1.0059 Generation
				59309	METZ 269.0			0.8694	0.9772 Generation
				59310	3M 269.0			0.8600	0.9688 Generation
				59311	NEVJCT 269.0			0.8962	0.9992 Generation
				59312	LAMAR 269.0			0.8538	0.9619 Generation

VOLTAGE REPORT TABLE

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(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
			VOLTAGE LESS THAN 0.9500:	59404	PUR390	269.0		0.9410	0.9410 above .90
				59416	CHE299T134.5	0.8955		0.8955	provide solut.
				59417	CHE299	134.5		0.8909	0.8909 provide solut.
				59418	CHE300	134.5		0.8948	0.8948 provide solut.
				59419	TWN388	134.5		0.8938	0.8938 provide solut.
				59420	WEL186	134.5		0.8681	0.8681 provide solut.
				59473	RDS295	5 161		0.9343	0.9343 above .90
				59474	OZD312	5 161		0.9400	0.9400 above .90
				59475	BRN331	5 161		0.9380	0.9380 above .90
				59482	HOL387	5 161		0.9430	0.9430 above .90
				59488	BRN412	5 161		0.9380	0.9380 above .90
				59489	BRN413	5 161		0.9427	0.9427 above .90
				59492	RDS424	5 161		0.9318	0.9318 above .90
				59495	GRT433	5 161		0.9401	0.9401 above .90
				59497	RVS438	5 161		0.9464	0.9464 above .90
59416	[CHE299T134.500] TO BUS	59418	[CHE300 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59417	CHE299	134.5		0.9493	0.8909 above .90
59418	[CHE300 134.500] TO BUS	59419	[TWN388 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59417	CHE299	134.5		0.9495	0.8909 above .90
59419	[TWN388 134.500] TO BUS	59420	[WEL186 134.500] CKT 1 VOLTAGE LESS THAN 0.9500:	59416	CHE299T134.5	0.9451		0.8955	above .90
				59417	CHE299	134.5		0.9408	0.8909 above .90
				59418	CHE300	134.5		0.9450	0.8948 above .90
				59419	TWN388	134.5		0.9448	0.8938 above .90
59436	[CUPTAP 269.000] TO BUS	59585	[DAD368 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59436	CUPTAP	269.0		0.9493	1.0076 above .90
				59437	CUPSUB	269.0		0.9487	1.0071 above .90
59464	[BOL 73 5161.00] TO BUS	59493	[BOL431 5161.00] CKT 1 VOLTAGE LESS THAN 0.9500:	59425	HER209	269.0	0.9358		0.9912 above .90
				59432	BUF243J269.0	0.9311		0.9658	above .90
				59433	STRKAMO269.0	0.9366		0.9611	above .90
				59434	BUF409	269.0	0.9204		0.9614 above .90
				59493	BOL431	5 161	0.9444		0.9757 above .90
				59547	BUF243	269.0	0.9309		0.9656 above .90
				59572	FGC333	269.0	0.9330		0.9656 above .90
				59575	BUF342	269.0	0.9292		0.9698 above .90
				59587	STR370	269.0	0.9344		0.9615 above .90
				59596	FRG397	269.0	0.9360		0.9640 above .90
				59637	HUM308	134.5	0.9391		0.9719 above .90
				59640	COL318	134.5	0.9166		0.9503 above .90
				59691	WIL369	269.0	0.9482		0.9708 above .90
59464	[BOL 73 5161.00] TO BUS	59528	[BOL 73 269.000] CKT 1 VOLTAGE LESS THAN 0.9500:	59425	HER209	269.0	0.8473		0.9912 capacitor 69kv
				59432	BUF243J269.0	0.8688		0.9658	capacitor 69kv
				59433	STRKAMO269.0	0.8978		0.9611	capacitor 69kv
				59434	BUF409	269.0	0.8499		0.9614 capacitor 69kv
				59528	BOL 73	269.0	0.8776		1.0166 capacitor 69kv
				59529	SED 80	269.0	0.9141		0.9766 above .90
				59536	ASH121	269.0	0.9445		0.9797 above .90
				59542	NIC170	269.0	0.9329		0.9718 above .90
				59545	FRP217	269.0	0.9229		0.9995 above .90
				59547	BUF243	269.0	0.8686		0.9656 capacitor 69kv
				59552	LAW260	269.0	0.9496		0.9735 above .90
				59567	BRT323	269.0	0.8943		0.9921 capacitor 69kv
				59572	FGC333	269.0	0.8714		0.9656 capacitor 69kv
				59575	BUF342	269.0	0.8595		0.9698 capacitor 69kv
				59576	REP345	269.0	0.9316		0.9586 above .90

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(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----	BUS	----	X)	V-CONT	V-INIT
						59580	REP359	269.0		0.9310	0.9516 above .90
						59584	BOL367	269.0		0.8817	1.0001 capacitor 69kv
						59586	WIL445	269.0		0.9252	0.9734 above .90
						59587	STR370	269.0		0.8893	0.9615 capacitor 69kv
						59596	FRG397	269.0		0.8886	0.9640 capacitor 69kv
						59612	BOL602	269.0		0.8852	0.9973 capacitor 69kv
						59635	FRP217	134.5		0.9486	1.0213 above .90
						59637	HUM308	134.5		0.9201	0.9719 above .90
						59639	DUN283	134.5		0.9337	0.9960 above .90
						59640	COL318	134.5		0.8972	0.9503 provide solut.
						59691	WIL369	269.0		0.9225	0.9708 above .90
59468	[AUR124 5161.00]	TO BUS	59473	[RDS295 5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59473	RDS295	5	161	0.9113	0.9343 above .90
59468	[AUR124 5161.00]	TO BUS	59480	[MON383 5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59424	RES364	269.0		0.9457	0.9666 above .90
						59468	AUR124	5	161	0.9359	0.9576 above .90
						59553	ALB262	269.0		0.9487	0.9695 above .90
						59577	MTV351	269.0		0.9472	0.9692 above .90
						59606	MTV420	269.0		0.9482	0.9704 above .90
59469	[RIV167 5161.00]	TO BUS	59487	[HOC404 5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59416	CHE299T	134.5		0.8656	0.8955 provide solut.
						59417	CHE299	134.5		0.8609	0.8909 provide solut.
						59418	CHE300	134.5		0.8650	0.8948 provide solut.
						59419	TWN388	134.5		0.8639	0.8938 provide solut.
						59420	WEL186	134.5		0.8372	0.8681 provide solut.
						59486	HOC404	4	138	0.9409	0.9765 above .90
						59487	HOC404	5	161	0.9352	0.9737 above .90
59474	[OZD312 5161.00]	TO BUS	59562	[OZD312 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59562	OZD312	269.0		0.9195	1.0123 above .90
						59603	FOR410	269.0		0.9195	1.0101 above .90
59478	[DAD368 5161.00]	TO BUS	59493	[BOL431 5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59434	BUF409	269.0		0.9374	0.9614 above .90
						59575	BUF342	269.0		0.9460	0.9698 above .90
						59637	HUM308	134.5		0.9444	0.9719 above .90
						59640	COL318	134.5		0.9222	0.9503 above .90
59478	[DAD368 5161.00]	TO BUS	59585	[DAD368 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59436	CUPTAP	269.0		0.9490	1.0076 above .90
						59437	CUPSUB	269.0		0.9484	1.0071 above .90
						59536	ASH121	269.0		0.9444	0.9797 above .90
						59585	DAD368	269.0		0.9499	1.0135 above .90
						59586	WIL445	269.0		0.9446	0.9734 above .90
						59637	HUM308	134.5		0.9408	0.9719 above .90
						59640	COL318	134.5		0.9185	0.9503 above .90
						59691	WIL369	269.0		0.9419	0.9708 above .90
59480	[MON383 5161.00]	TO BUS	59591	[MON383 269.000]	CKT 1 VOLTAGE LESS THAN 0.9500:	59400	MON376J	269.0		0.8835	0.9746 capacitor 69kv
						59401	MON376	269.0	0.8820		0.9732 capacitor 69kv
						59402	MON416J	269.0		0.8763	0.9681 capacitor 69kv
						59403	MON416	269.0		0.8759	0.9677 capacitor 69kv
						59404	PUR390	269.0		0.8461	0.9410 capacitor 69kv
						59405	MON352J	269.0		0.9106	0.9986 above .90
						59406	MON352	269.0		0.9104	0.9984 above .90
						59407	MON311J	269.0		0.9089	0.9970 above .90
						59408	MON311	269.0		0.9087	0.9969 above .90
						59421	GNB347J	269.0		0.9481	0.9756 above .90
						59422	GNB347	269.0		0.9340	0.9619 above .90
						59423	DIA242	269.0		0.9475	0.9750 above .90
						59430	SAR362	269.0		0.9235	0.9760 above .90
						59540	MON152	269.0		0.9181	1.0001 above .90
						59544	WEN205	269.0		0.9261	0.9861 above .90
						59582	SAR362T	269.0		0.9309	0.9831 above .90
						59591	MON383	269.0		0.9160	1.0035 above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59484	[DEC392 5161.00]	TO BUS	59594 [DEC392 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59569 DEC326 269.0	0.9463	1.0020 above .90
							59594 DEC392 269.0	0.9463	1.0056 above .90
59487	[HOC404 5161.00]	TO BUS	59601 [HOC404 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59409 SCAM66 269.0	0.9412	0.9776 above .90
							59410 COL282T269.0	0.9421	0.9785 above .90
							59411 COL282 269.0	0.9359	0.9725 above .90
							59412 SEK225T269.0	0.9399	0.9765 above .90
							59413 SEK225 269.0	0.9398	0.9763 above .90
							59414 SMN425 269.0	0.9381	0.9747 above .90
							59415 SHR444 269.0	0.9388	0.9754 above .90
							59416 CHE299T134.5	0.8411	0.8955 provide solut.
							59417 CHE299 134.5	0.8363	0.8909 provide solut.
							59418 CHE300 134.5	0.8404	0.8948 provide solut.
							59419 TWN388 134.5	0.8394	0.8938 provide solut.
							59420 WEL186 134.5	0.8122	0.8681 provide solut.
							59427 COM381 269.0	0.9382	0.9859 above .90
							59530 COL 94 269.0	0.9476	0.9838 above .90
							59579 COM381T269.0	0.9469	0.9941 above .90
							59590 QUA377 269.0	0.9459	0.9956 above .90
							59601 HOC404 269.0	0.9482	1.0008 above .90
							59636 BAX271 134.5	0.9485	0.9963 above .90
59488	[BRN412 5161.00]	TO BUS	59492 [RDS424 5161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59492 RDS424 5 161	0.9103	0.9318 above .90
59489	[BRN413 5161.00]	TO BUS	59497 [RVS438 5161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59489 BRN413 5 161	0.9213	0.9427 above .90
59496	[NOL435 5161.00]	TO BUS	59610 [NOL435 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59428 SWC414 269.0	0.9384	0.9761 above .90
59524	[NEO 56 269.000]	TO BUS	59563 [LIN314 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59524 NEO 56 269.0	0.9404	0.9781 above .90
59528	[BOL 73 269.000]	TO BUS	59575 [BUF342 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59432 BUF243J269.0	0.8896	0.9658 capacitor 69kv
							59433 STRKAMO269.0	0.9249	0.9611 above .90
							59434 BUF409 269.0	0.8636	0.9614 capacitor 69kv
							59547 BUF243 269.0	0.8894	0.9656 capacitor 69kv
							59572 FGC333 269.0	0.8937	0.9656 capacitor 69kv
							59575 BUF342 269.0	0.8731	0.9698 capacitor 69kv
							59587 STR370 269.0	0.9195	0.9615 above .90
							59596 FRG397 269.0	0.9199	0.9640 above .90
59528	[BOL 73 269.000]	TO BUS	59584 [BOL367 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59545 FRP217 269.0	0.9454	0.9995 above .90
							59584 BOL367 269.0	0.9131	1.0001 above .90
							59612 BOL602 269.0	0.9154	0.9973 above .90
							59637 HUM308 134.5	0.9361	0.9719 above .90
							59640 COL318 134.5	0.9136	0.9503 above .90
59529	[SED 80 269.000]	TO BUS	59596 [FRG397 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59432 BUF243J269.0	0.9449	0.9658 above .90
							59433 STRKAMO269.0	0.9392	0.9611 above .90
							59547 BUF243 269.0	0.9447	0.9656 above .90
							59572 FGC333 269.0	0.9434	0.9656 above .90
							59587 STR370 269.0	0.9358	0.9615 above .90
							59596 FRG397 269.0	0.9368	0.9640 above .90
59532	[CAR108 269.000]	TO BUS	59533 [ATL109 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59532 CAR108 269.0	0.9466	0.9780 above .90
							59599 JAS403 269.0	0.9462	0.9728 above .90
							59600 JAS403T269.0	0.9469	0.9734 above .90
59536	[ASH121 269.000]	TO BUS	59585 [DAD368 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59536 ASH121 269.0	0.9407	0.9797 above .90
							59552 LAW260 269.0	0.9476	0.9735 above .90
							59586 WIL445 269.0	0.9432	0.9734 above .90
							59691 WIL369 269.0	0.9404	0.9708 above .90
59536	[ASH121 269.000]	TO BUS	59586 [WIL445 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59586 WIL445 269.0	0.9458	0.9734 above .90
							59691 WIL369 269.0	0.9431	0.9708 above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59537	[AUR124 269.000] TO BUS 59578 [AUR355 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59424	RES364	269.0	0.9320	0.9666	above .90
				59552	LAW260	269.0	0.9487	0.9735	above .90
				59553	ALB262	269.0	0.9351	0.9695	above .90
				59573	HTC338	269.0	0.9407	0.9711	above .90
				59577	MTV351	269.0	0.9197	0.9692	above .90
				59578	AUR355	269.0	0.9078	0.9855	above .90
				59606	MTV420	269.0	0.9183	0.9704	above .90
59537	[AUR124 269.000] TO BUS 59611 [MAR437 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59611	MAR437	269.0	0.9355	0.9736	above .90
59538	[DIA131 269.000] TO BUS 59595 [RNM393 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59421	GNB347J	269.0	0.9108	0.9756	above .90
				59422	GNB347	269.0	0.8962	0.9619	capacitor 69kv
				59423	DIA242	269.0	0.9102	0.9750	above .90
				59430	SAR362	269.0	0.9319	0.9760	above .90
				59538	DIA131	269.0	0.9169	0.9814	above .90
				59544	WEN205	269.0	0.9499	0.9861	above .90
				59582	SAR362T	269.0	0.9393	0.9831	above .90
59541	[RIV167 269.000] TO BUS 59602 [RIV406 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59416	CHE299T	134.5	0.8705	0.8955	provide solut.
				59417	CHE299	134.5	0.8658	0.8909	provide solut.
				59418	CHE300	134.5	0.8699	0.8948	provide solut.
				59419	TWN388	134.5	0.8688	0.8938	provide solut.
				59420	WEL186	134.5	0.8425	0.8681	provide solut.
				59429	BAX291	269.0	0.9474	0.9824	above .90
59542	[NIC170 269.000] TO BUS 59576 [REP345 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59576	REP345	269.0	0.9365	0.9586	above .90
59543	[NEO184 269.000] TO BUS 59560 [ROC296 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59560	ROC296	269.0	0.9377	0.9776	above .90
				59597	NEO398	269.0	0.9397	0.9776	above .90
59543	[NEO184 269.000] TO BUS 59563 [LIN314 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59426	SEN375	269.0	0.9304	0.9667	above .90
				59524	NEO 56	269.0	0.9063	0.9781	above .90
				59563	LIN314	269.0	0.9041	0.9812	above .90
				59589	RAC375	269.0	0.9467	0.9823	above .90
59544	[WEN205 269.000] TO BUS 59591 [MON383 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59430	SAR362	269.0	0.9441	0.9760	above .90
59545	[FRP217 269.000] TO BUS 59635 [FRP217 134.500]	CKT 1	VOLTAGE LESS THAN 0.9500:	59635	FRP217	134.5	0.8416	1.0213	provide solut.
				59637	HUM308	134.5	0.8432	0.9719	provide solut.
				59639	DUN283	134.5	0.8417	0.9960	provide solut.
				59640	COL318	134.5	0.8178	0.9503	provide solut.
				59641	CAP304	134.5	0.9421	1.0105	above .90
59546	[BIL221 269.000] TO BUS 59580 [REP359 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59542	NIC170	269.0	0.9399	0.9718	above .90
				59576	REP345	269.0	0.8957	0.9586	capacitor 69kv
				59580	REP359	269.0	0.8731	0.9516	capacitor 69kv
59554	[BAX271 269.000] TO BUS 59601 [HOC404 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59411	COL282	269.0	0.9463	0.9725	above .90
				59414	SMN425	269.0	0.9485	0.9747	above .90
				59415	SHR444	269.0	0.9492	0.9754	above .90
				59416	CHE299T	134.5	0.8565	0.8955	provide solut.
				59417	CHE299	134.5	0.8518	0.8909	provide solut.
				59418	CHE300	134.5	0.8558	0.8948	provide solut.
				59419	TWN388	134.5	0.8548	0.8938	provide solut.
				59420	WEL186	134.5	0.8281	0.8681	provide solut.
59561	[NOL443 269.000] TO BUS 59610 [NOL435 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59561	NOL443	269.0	0.9400	0.9875	above .90
				59566	AND322	269.0	0.9474	0.9822	above .90
59562	[OZD312 269.000] TO BUS 59603 [FOR410 269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59603	FOR410	269.0	0.9196	1.0101	above .90
59568	[STK324 269.000] TO BUS 59616 [STK631J269.000]	CKT 1	VOLTAGE LESS THAN 0.9500:	59568	STK324	269.0	0.9064	0.9981	above .90
				59637	HUM308	134.5	0.9314	0.9719	above .90
				59638	STK324	134.5	0.9307	1.0317	above .90
				59640	COL318	134.5	0.9096	0.9503	above .90
				59641	CAP304	134.5	0.9306	1.0105	above .90

VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
59568	[STK324 269.000]	TO BUS 59638	[STK324 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.9254	0.9719 above .90
							59638 STK324 134.5	0.9236	1.0317 above .90
							59640 COL318 134.5	0.9027	0.9503 above .90
							59641 CAP304 134.5	0.9235	1.0105 above .90
59569	[DEC326 269.000]	TO BUS 59594	[DEC392 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59569 DEC326 269.0	0.9461	1.0020 above .90
59570	[OZK330 269.000]	TO BUS 59604	[BHZ415 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59570 OZK330 269.0	0.8515	0.9824 provide solut
							59609 OZK434 269.0	0.8567	0.9791 provide solut
59570	[OZK330 269.000]	TO BUS 59609	[OZK434 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59609 OZK434 269.0	0.9372	0.9791 above .90
59577	[MTV351 269.000]	TO BUS 59606	[MTV420 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59577 MTV351 269.0	0.9482	0.9692 above .90
59578	[AUR355 269.000]	TO BUS 59606	[MTV420 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59577 MTV351 269.0	0.9409	0.9692 above .90
							59606 MTV420 269.0	0.9406	0.9704 above .90
59587	[STR370 269.000]	TO BUS 59596	[FRG397 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59433 STRKAMO269.0	0.9172	0.9611 above .90
							59587 STR370 269.0	0.9107	0.9615 above .90
59589	[RAC375 269.000]	TO BUS 59592	[JOP389 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59426 SEN375 269.0	0.9370	0.9667 above .90
59590	[QUA377 269.000]	TO BUS 59601	[HOC404 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59427 COM381 269.0	0.8938	0.9859 capacitor 69kv
							59579 COM381T269.0	0.9028	0.9941 above .90
							59590 QUA377 269.0	0.9000	0.9956 capacitor 69kv
59598	[LKW400 269.000]	TO BUS 59613	[GRN614 269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59548 BOS249 269.0	0.9474	0.9737 above .90
							59550 GLD251 269.0	0.9390	0.9739 above .90
							59598 LKW400 269.0	0.9340	0.9778 above .90
59605	[STK418 269.000]	TO BUS 59614	[SK631CJ269.000]	CKT 1	VOLTAGE LESS THAN	0.9500:	59548 BOS249 269.0	0.9409	0.9737 above .90
							59549 ARC250 269.0	0.9151	0.9908 above .90
							59550 GLD251 269.0	0.9313	0.9739 above .90
							59568 STK324 269.0	0.9052	0.9981 above .90
							59598 LKW400 269.0	0.9259	0.9778 above .90
							59613 GRN614 269.0	0.9257	0.9830 above .90
							59614 SK631CJ269.0	0.9044	0.9989 above .90
							59616 STK631J269.0	0.9053	0.9982 above .90
							59637 HUM308 134.5	0.9266	0.9719 above .90
							59638 STK324 134.5	0.9380	1.0317 above .90
							59640 COL318 134.5	0.9045	0.9503 above .90
							59641 CAP304 134.5	0.9340	1.0105 above .90
59635	[FRP217 134.500]	TO BUS 59639	[DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN	1.0500:	59635 FRP217 134.5	1.0589	1.0213 above .90
					VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.8421	0.9719 provide solut.
							59639 DUN283 134.5	0.8405	0.9960 provide solut.
							59640 COL318 134.5	0.8167	0.9503 provide solut.
							59641 CAP304 134.5	0.9415	1.0105 above .90
59637	[HUM308 134.500]	TO BUS 59639	[DUN283 134.500]	CKT 1	VOLTAGE GREATER THAN	1.0500:	59635 FRP217 134.5	1.0591	1.0213 above .90
							59639 DUN283 134.5	1.0580	0.9960 above .90
					VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.8491	0.9719 provide solut.
							59640 COL318 134.5	0.8239	0.9503 provide solut.
							59641 CAP304 134.5	0.9446	1.0105 above .90
59637	[HUM308 134.500]	TO BUS 59641	[CAP304 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.9322	0.9719 above .90
							59640 COL318 134.5	0.9104	0.9503 above .90
59638	[STK324 134.500]	TO BUS 59641	[CAP304 134.500]	CKT 1	VOLTAGE LESS THAN	0.9500:	59637 HUM308 134.5	0.9305	0.9719 above .90
							59640 COL318 134.5	0.9087	0.9503 above .90
							59641 CAP304 134.5	0.9291	1.0105 above .90
59484	[DEC392 5161.00]	TO BUS 53139	[FLINTCR5161.00]	CKT 1	VOLTAGE LESS THAN	0.9500:	59428 SWC414 269.0	0.9247	0.9761 above .90
							59484 DEC392 5 161	0.9386	1.0164 above .90
							59496 NOL435 5 161	0.9429	0.9928 above .90
							59561 NOL443 269.0	0.9395	0.9875 above .90
							59566 AND322 269.0	0.9429	0.9822 above .90
							59569 DEC326 269.0	0.9297	1.0020 above .90

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VOLTAGE REPORT TABLE

(	OUTAGED BRANCH	) (	VOLTAGE RANGE	) (X----	BUS	----	X)	V-CONT	V-INIT
					59610	NOL435	269.0	0.9406	0.9912 above .90
					59617	GRA700	269.0	0.9276	0.9939 above .90
59497	[RVS438 5161.00]	TO BUS 52672	[TABLE R5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59473	RDS295	5 161	0.8959	0.9343 provide solut.
					59474	OZD312	5 161	0.8864	0.9400 provide solut.
					59475	BRN331	5 161	0.8846	0.9380 provide solut.
					59482	HOL387	5 161	0.8844	0.9430 provide solut.
					59488	BRN412	5 161	0.8847	0.9380 provide solut.
					59489	BRN413	5 161	0.8828	0.9427 provide solut.
					59492	RDS424	5 161	0.8906	0.9318 provide solut.
					59495	GRT433	5 161	0.8835	0.9401 provide solut.
					59497	RVS438	5 161	0.8830	0.9464 provide solut.
					59648	OZD312	14.60	0.9106	0.9633 above .90
59605	[STK418 269.000]	TO BUS 96118	[5STKAEC 161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59548	BOS249	269.0	0.9410	0.9737 above .90
					59549	ARC250	269.0	0.9152	0.9908 above .90
					59550	GLD251	269.0	0.9313	0.9739 above .90
					59568	STK324	269.0	0.9054	0.9981 above .90
					59598	LKW400	269.0	0.9260	0.9778 above .90
					59605	STK418	269.0	0.9046	1.0005 above .90
					59613	GRN614	269.0	0.9258	0.9830 above .90
					59614	SK631CJ	269.0	0.9046	0.9989 above .90
					59616	STK631J	269.0	0.9055	0.9982 above .90
					59637	HUM308	134.5	0.9268	0.9719 above .90
					59638	STK324	134.5	0.9381	1.0317 above .90
					59640	COL318	134.5	0.9046	0.9503 above .90
					59641	CAP304	134.5	0.9342	1.0105 above .90
CONTINGENCY SPP-12									
59207	[ARCHIE 5161.00]	TO BUS 59240	[ADRIAN 5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	59434	BUF409	269.0	0.9414	0.9614 above .90
59216	[BUTLER_5161.00]	TO BUS 59240	[ADRIAN 5161.00]	CKT 1	59478	DAD368	5 161	0.9423	0.9626 above .90
59208	[NEVADA 5161.00]	TO BUS 59216	[BUTLER_5161.00]	CKT 1	59637	HUM308	134.5	0.9399	0.9719 above .90
					59640	COL318	134.5	0.9175	0.9503 above .90
<b>2010 SUMMER PEAK - ST. JOSEPH LIGHT AND POWER - AREA 679</b>									
69703	[ST JOE 5161.00]	TO BUS 69708	[WOODBIN5161.00]	CKT 1 VOLTAGE LESS THAN 0.9500:	69704	EAST	5 161	0.9482	0.9990 Acceptable
					69708	WOODBIN5	161	0.9480	1.0028 Acceptable