



**System Impact Study for
Transmission Service Requests**

from

UTILICORP UNITED

(WestPlains Energy-Kansas)

**SPP TRANSMISSION REQUEST # 163523
TRANSACTION PERIOD 10/01/00 - 10/01/10**

SPP-2000-007

April 20, 2000

SPP Transmission Planning

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I. Executive Summary

Southwest Power Pool evaluated the impacts of the 10 year network service request (#163522) for WestPlains Energy - UtiliCorp. Multiple cases were developed and reviewed during the analysis portion of the study. The engineering results of the study show that one facility upgrade is required to accommodate the requested transmission service from the designated resources to the designated load as early as the summer of 2004. Two transformers overload with the contingency of a parallel one in multiple cases. Numerous voltage conditions were reviewed with all of them meeting UtiliCorp Criteria, eliminated through a generation redispatch, or by transformer tap changing. A summary of these results are provided in Section V. Detailed engineering data is provided for completeness in section IV.

II. Introduction

UTILICORP UNITED has requested a System Impact Study (#163522) for its four operating companies: WEPL, MIPU, SJPL, and EMDE. The three Missouri companies are to be considered one control area and the Kansas company a separate control area. This report deals only with WEPL. The period of the study is from 10/01/00 to 10/01/10.

The principal objective of this study is to identify system problems that will need to be upgraded in order to maintain system reliability.

III. Study Methodology

1. Description

This study was done in two separate parts. The first part was to study the 14 base cases to see what overloads or voltage problems exist. In the second part, one branch or selected multiple branches were removed to study the affect of their removal on the system. The SPP base case models were modified to reflect the most current modeling information.

The steady-state analysis part 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.

2. Model Updates

Cases for year 2000 Spring Peak, 2000 Summer Peak, 2000 Fall Peak, 2000/01 Winter Peak, 2001 April Minimum, 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.

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. **Page 1**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. Excl'd 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. Designated Network Resources:

UNIT	CAPACITY
Jeffrey Energy Center Unit 1	59
Jeffrey Energy Center Unit 2	59
Jeffrey Energy Center Unit 3	58
Judson Large Generator (JLS)	143
A.M. Mullergren Generator (AMS)	90
Cimarron River Plant Generator #1	58
Cimarron River Plant Generator #2	14
Clifton Generator #1	71
Clifton Generator #1	2
Total	554

V. Study Results Summary Tables

a. SUMMARY THERMAL OVERLOAD TABLE, WEPL

1. 2000 FALL PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
2. 2000 SUMMER PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
3. 2000 SPRING PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
4. 2000 WINTER PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
5. 2001 APRIL MINIMUM	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
6. 2001 FALL PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
7. 2001 SUMMER PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
8. 2001 SPRING PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
9. 2001 WINTER PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
10. 2004 SUMMER PEAK										
(OUTAGED BRANCH)	(OVERLOADED BRANCH	(CKT)	PRE-CNT	POST-CNT	RATING	PERCENT
	58784 [OTISSUB3] 58823 [OTISSUB1]	CKT 1		58784 OTISSUB3 58823 OTISSUB1	2		4.6	8.5	8.0	105.9 Upgrade
	58784 [OTISSUB3] 58823 [OTISSUB1]	CKT 2		58784 OTISSUB3 58823 OTISSUB1	1		3.7	8.7	8.0	108.9 Facility
11. 2004 WINTER PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
12. 2006 SUMMER PEAK										
(OUTAGED BRANCH)	(OVERLOADED BRANCH	(CKT)	PRE-CNT	POST-CNT	RATING	PERCENT
	58784 [OTISSUB3] 58823 [OTISSUB1]	CKT 1		58784 OTISSUB3 58823 OTISSUB1	2		4.9	8.9	8.0	111.7 Upgrade
	58784 [OTISSUB3] 58823 [OTISSUB1]	CKT 2		58784 OTISSUB3 58823 OTISSUB1	1		3.8	9.1	8.0	113.9 Facility
13. 2006 WINTER PEAK	NO BRANCHES LOADED TO 100% OF THEIR B RATING									
14. 2010 SUMMER PEAK										
(OUTAGED BRANCH)	(OVERLOADED BRANCH	(CKT)	PRE-CNT	POST-CNT	RATING	PERCENT
	58784 [OTISSUB3] 58823 [OTISSUB1]	CKT 1		58784*OTISSUB3 58823 OTISSUB1	2		5.4	9.9	8.0	123.6 Upgrade
	58784 [OTISSUB3] 58823 [OTISSUB1]	CKT 2		58784*OTISSUB3 58823 OTISSUB1	1		4.2	10.1	8.0	126.5 Facility

b. SUMMARY: VOLTAGE LIMIT TABLE, WEPL

1. 2000 FALL PEAK

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X)(V-CONT)	(V-INIT)
58756 [CLIFTON3] 58765 [GRNLEAF31] CKT 1	VOLTAGE GREATER THAN 1.0500:	58804 CLIFSUB134.5 1.0674	1.0431 LTC
58773 [MED-LDG3] 58797 [SUNCITY31] CKT 1	VOLTAGE GREATER THAN 1.0500:	58833 SUNCITY134.5 1.0703	1.042 LTC
58759 [CUDAHY 3] 58771 [JUD-LRG31] CKT 1	VOLTAGE LESS THAN 0.9500:	58753 CIM-PLT113.8 0.9498	0.9829 above .90
58778 [MULGREN3] 58779 [MULGREN62] CKT 1	VOLTAGE LESS THAN 0.9500:	58760 EHALLTP3 115 0.9477 58766 GBENDTP3 115 0.9418 58778 MULGREN3 115 0.9371 58784 OTISSUB3 115 0.9348 58801 RUSSELL3 115 0.9499 58823 OTISSUB134.5 0.9328 58761 E-GBEND3 115 0.9327 58777 MULGREN113.8 0.9371 58781 N-GBEND3 115 0.9349 58789 S-GBEND3 115 0.9322 58807 E-GBEND134.5 0.9497 58828 S-GBEND134.5 0.9470	1.0190 above .90 1.0175 above .90 1.0235 above .90 1.0223 above .90 1.0184 above .90 1.0342 above .90 1.0206 above .90 1.0235 above .90 1.0221 above .90 1.0202 above .90 1.0432 above .90 1.0411 above .90
58754 [CIM-PLT3] 56455 [NCIMARN31],CKT 1	VOLTAGE LESS THAN 0.9500:	58753 CIM-PLT113.8 0.9453	0.9829 above .90

2. 2000 SUMMER PEAK

BASE CASE	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9438	0.9438 above .90
58757 [CONCORD3] 58758 [CONCORD6],CKT 1	VOLTAGE LESS THAN 0.9500:	58785 PHLBURG3 115 0.9472 58793 SMITH-C3 115 0.9425 58798 WALDO 3 115 0.9412 58801 RUSSELL3 115 0.9500	0.9837 above .90 0.9897 above .90 0.9800 above .90 0.9824 above .90
58760 [EHALLTP3] 58778 [MULGREN3] CKT 1	VOLTAGE LESS THAN 0.9500:	58760 EHALLTP3 115 0.8810 58762 ELLSWTH3 115 0.8838 58793 SMITH-C3 115 0.9472 58798 WALDO 3 115 0.8938 58801 RUSSELL3 115 0.8833 58808 ELLSWTH134.5 0.9231 58834 WALDO 134.5 0.9289	0.9841 planned 0.9910 2002 0.9897 Ellsworth 0.9800 to 0.9824 Rice 1.0404 1.0299
58764 [GRNBURG3] 58771 [JUD-LRG3] CKT 1	VOLTAGE LESS THAN 0.9500:	58773 MED-LDG3 115 0.9390 58787 PRATT 3 115 0.9166 58797 SUNCITY3 115 0.9462	0.9674 above .90 0.9438 above .90 0.9772 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58764	[GRNBURG3] 58797 [SUNCITY3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0784	1.0379 LTC
				VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9324	0.9674 above .90
						58787 PRATT 3 115	0.9144	0.9438 above .90
						58797 SUNCITY3 115	0.9331	0.9772 above .90
58766	[GBENDTP3] 58778 [MULGREN3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58766 GBENDTP3 115	0.9310	0.9948 above .90
						58787 PRATT 3 115	0.9190	0.9438 above .90
						58792 SEWARD 3 115	0.9307	0.9756 above .90
						58796 ST-JOHN3 115	0.9231	0.9565 above .90
58766	[GBENDTP3] 58792 [SEWARD 3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.9180	0.9438 above .90
						58792 SEWARD 3 115	0.9291	0.9756 above .90
						58796 ST-JOHN3 115	0.9219	0.9565 above .90
58768	[HARPER 4] 58775 [MILANTP4]	CKT 1		VOLTAGE LESS THAN 0.9500:		58768 HARPER 4 138	0.9125	0.9943 above .90
						58773 MED-LDG3 115	0.9301	0.9674 above .90
						58774 MED-LDG4 138	0.9285	0.9844 above .90
						58787 PRATT 3 115	0.9206	0.9438 above .90
						58797 SUNCITY3 115	0.9499	0.9772 above .90
						58813 HARPER 134.5	0.9414	1.0398 above .90
58773	[MED-LDG3] 58774 [MED-LDG4]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58813 HARPER 134.5	1.0645	1.0398 LTC
58773	[MED-LDG3] 58787 [PRATT 3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58817 MED-LDG134.5	1.0772	1.0372 LTC
				VOLTAGE LESS THAN 0.9500:		58833 SUNCITY134.5	1.0674	1.0364 LTC
						58787 PRATT 3 115	0.8982	0.9438 OK
58773	[MED-LDG3] 58797 [SUNCITY3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0859	1.0379 LTC
				VOLTAGE LESS THAN 0.9500:		58833 SUNCITY134.5	1.1080	1.0364 LTC
						58773 MED-LDG3 115	0.9310	0.9674 above .90
						58787 PRATT 3 115	0.9141	0.9438 above .90
58779	[MULGREN6] 58795 [SPEARVL6]	CKT 1		VOLTAGE LESS THAN 0.9500:		58751 ALEXNDR3 115	0.9465	0.9823 above .90
58787	[PRATT 3] 58796 [ST-JOHN3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9434	0.9674 above .90
						58787 PRATT 3 115	0.9020	0.9438 above .90
58792	[SEWARD 3] 58796 [ST-JOHN3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9424	0.9674 above .90
						58787 PRATT 3 115	0.9004	0.9438 above .90
						58796 ST-JOHN3 115	0.8989	0.9565 generation

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X)(V-CONT)	(V-INIT)
58779 [MULGREN6] 56601 [HEIZER 3] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9222 58783 NESS-CT3 115 0.9427	0.9823 above .90 0.9884 above .90
58786 [PLAINVL3] 56551 [SALINE 3] CKT 1	VOLTAGE LESS THAN 0.9500:	58785 PHLBURG3 115 0.9267 58786 PLAINVL3 115 0.9216	0.9837 above .90 0.9904 above .90
58795 [SPEARVL6] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9446	0.9823 above .90
CONTINGENCY SPP-17			
56469 [SPERVIL7] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9464	0.9823 above .90
56470 [SPERXFR6] 58795 [SPEARVL6] CKT 1			
56468 [SPERTER1] 56470 [SPERXFR6] CKT 1			
3. 2000 SPRING PEAK			
58773 [MED-LDG3] 58787 [PRATT 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58817 MED-LDG134.5 1.0739 58833 SUNCITY134.5 1.0681	1.0441 LTC 1.0437 LTC
	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9364	0.9928 above .90
58773 [MED-LDG3] 58797 [SUNCITY3]	VOLTAGE GREATER THAN 1.0500:	58833 SUNCITY134.5 1.0662	1.0437 LTC
58778 [MULGREN3] 58779 [MULGREN6] CKT 1	VOLTAGE LESS THAN 0.9500:	58761 E-GBEND3 115 0.9482 58781 N-GBEND3 115 0.9497 58784 OTISSUB3 115 0.9499 58789 S-GBEND3 115 0.9478	1.0054 above .90 1.0065 above .90 1.0067 above .90 1.0051 above .90
58786 [PLAINVL3] 56551 [SALINE 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58824 PHLBURG134.5 1.0623 58825 PLAINVL134.5 1.0862	1.0388 LTC 1.0448 LTC
58795 [SPEARVL6] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9459	0.9997 above .90
CONTINGENCY SPP-17			
56469 [SPERVIL7] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9479	0.9997 above .90
56470 [SPERXFR6] 58795 [SPEARVL6] CKT 1			
56468 [SPERTER1] 56470 [SPERXFR6] CKT 1			

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

4. 2000 WINTER PEAK

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X) (V-CONT)	(V-INIT)
58752 [CMRIVTP3] 58759 [CUDAHY 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58806 CUDAHY 134.5 1.0789	1.0483 LTC
	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115 0.9255	0.9699 above .90
		58753 CIM-PLT113.8 0.9148	0.9598 above .90
		58754 CIM-PLT3 115 0.9264	0.9678 above .90
		58772 E-LIBER3 115 0.9254	0.9666 above .90
		58782 NLIBTAP3 115 0.9243	0.9657 above .90
		58790 S-LIBER3 115 0.9246	0.9659 above .90
		58791 SATANTA3 115 0.9438	0.9720 above .90
		58800 W-LIBER3 115 0.9204	0.9620 above .90
		58837 NLIB 3 115 0.9227	0.9642 above .90
	58759 [CUDAHY 3] 58771 [JUD-LRG3] CKT 1	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115 0.9244	0.9699 above .90
		58753 CIM-PLT113.8 0.9136	0.9598 above .90
		58754 CIM-PLT3 115 0.9254	0.9678 above .90
		58759 CUDAHY 3 115 0.9234	0.9891 above .90
		58772 E-LIBER3 115 0.9243	0.9666 above .90
		58782 NLIBTAP3 115 0.9232	0.9657 above .90
		58790 S-LIBER3 115 0.9235	0.9659 above .90
		58791 SATANTA3 115 0.9427	0.9720 above .90
		58800 W-LIBER3 115 0.9193	0.9620 above .90
		58837 NLIB 3 115 0.9216	0.9642 above .90
58773 [MED-LDG3] 58787 [PRATT 3] CKT 1		VOLTAGE GREATER THAN 1.0500:	58817 MED-LDG134.5 1.0669	1.0438 LTC
	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9419	0.9876 above .90
58773 [MED-LDG3] 58797 [SUNCITY3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58833 SUNCITY134.5 1.0722	1.0431 LTC
58778 [MULGREN3] 58779 [MULGREN6] CKT 1	VOLTAGE LESS THAN 0.9500:	58760 EHALLTP3 115 0.9338	1.0072 above .90
		58761 E-GBEND3 115 0.9172	1.0057 above .90
		58762 ELLSWTH3 115 0.9371	1.0121 above .90
		58777 MULGREN113.8 0.9226	1.0094 above .90
		58781 N-GBEND3 115 0.9199	1.0075 above .90
		58789 S-GBEND3 115 0.9166	1.0053 above .90
		58796 ST-JOHN3 115 0.9469	0.9897 above .90
		58801 RUSSELL3 115 0.9364	1.0072 above .90
		58821 N-GBEND134.5 0.9455	1.0399 above .90
		58828 S-GBEND134.5 0.9460	1.0429 above .90
		58766 GBENDTP3 115 0.9285	1.0052 above .90
		58778 MULGREN3 115 0.9226	1.0094 above .90
		58784 OTISSUB3 115 0.9197	1.0077 above .90
		58792 SEWARD 3 115 0.9404	0.9967 above .90
		58798 WALDO 3 115 0.9465	1.0086 above .90
		58807 E-GBEND134.5 0.9434	1.0391 above .90
		58823 OTISSUB134.5 0.9337	1.0400 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58779	[MULGREN6] 58795 [SPEARVL6] CKT 1			VOLTAGE LESS THAN	0.9500:	58751 ALEXNDR3 115	0.9332	1.0039 above .90
						58760 EHALLTP3 115	0.9468	1.0072 above .90
						58761 E-GBEND3 115	0.9387	1.0057 above .90
						58777 MULGREN113.8	0.9436	1.0094 above .90
						58779 MULGREN6 230	0.9466	1.0076 above .90
						58784 OTISSUB3 115	0.9411	1.0077 above .90
						58789 S-GBEND3 115	0.9381	1.0053 above .90
						58796 ST-JOHN3 115	0.9340	0.9897 above .90
						58766 GBENDTP3 115	0.9410	1.0052 above .90
						58778 MULGREN3 115	0.9436	1.0094 above .90
						58781 N-GBEND3 115	0.9411	1.0075 above .90
						58787 PRATT 3 115	0.9393	0.9876 above .90
						58792 SEWARD 3 115	0.9356	0.9967 above .90
						58801 RUSSELL3 115	0.9480	1.0072 above .90
58782	[NLIBTAP3] 58837 [NLIB 3] CKT 1			VOLTAGE GREATER THAN	1.0500:	58816 E-LIBER134.5	1.0693	1.0457 LTC
	58829 S-LIBER134.5	1.0678		1.0438				
58754	[CIM-PLT3] 56455 [NCIMARN3] CKT 1			VOLTAGE GREATER THAN	1.0500:	58830 SATANTA134.5	1.0688	1.0392 above .90
				VOLTAGE LESS THAN	0.9500:	58752 CMRIVTP3 115	0.9237	0.9699 above .90
						58753 CIM-PLT113.8	0.9064	0.9598 above .90
						58754 CIM-PLT3 115	0.9185	0.9678 above .90
						58782 NLIBTAP3 115	0.9188	0.9657 above .90
						58800 W-LIBER3 115	0.9149	0.9620 above .90
						58772 E-LIBER3 115	0.9204	0.9666 above .90
						58790 S-LIBER3 115	0.9196	0.9659 above .90
						58837 NLIB 3 115	0.9172	0.9642 above .90
58795	[SPEARVL6] 56470 [SPERXFR6] CKT 1			VOLTAGE LESS THAN	0.9500:	58752 CMRIVTP3 115	0.9455	0.9699 above .90
						58754 CIM-PLT3 115	0.9438	0.9678 above .90
						58782 NLIBTAP3 115	0.9422	0.9657 above .90
						58791 SATANTA3 115	0.9474	0.9720 above .90
						58837 NLIB 3 115	0.9407	0.9642 above .90
						58753 CIM-PLT113.8	0.9338	0.9598 above .90
						58772 E-LIBER3 115	0.9433	0.9666 above .90
						58790 S-LIBER3 115	0.9426	0.9659 above .90
						58800 W-LIBER3 115	0.9384	0.9620 above .90
CONTINGENCY SPP-17								
56469	[SPERVIL7] 56470 [SPERXFR6] CKT 1			VOLTAGE LESS THAN	0.9500:	58752 CMRIVTP3 115	0.9458	0.9699 above .90
56470	[SPERXFR6] 58795 [SPEARVL6] CKT 1					58754 CIM-PLT3 115	0.9442	0.9678 above .90
56468	[SPERTER1] 56470 [SPERXFR6] CKT 1					58782 NLIBTAP3 115	0.9425	0.9657 above .90
						58791 SATANTA3 115	0.9478	0.9720 above .90
						58837 NLIB 3 115	0.9410	0.9642 above .90
						58753 CIM-PLT113.8	0.9342	0.9598 above .90

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58772	E-LIBER3 115	0.9436	0.9666	above .90		58790	S-LIBER3 115 0.9429	0.9659 above .90
						58800	W-LIBER3 115 0.9387	0.9620 above .90
CONTINGENCY SPP-22								
51534	[TUCO 7] 54119 [O.K.U.-7]	CKT 1	VOLTAGE LESS THAN	0.9500:		58752	CMRIVTP3 115 0.9249	0.9699 above .90
51533	[TUCO 6] 51534 [TUCO 7]	CKT 1				58754	CIM-PLT3 115 0.9231	0.9678 above .90
						58782	NLIBTAP3 115 0.9127	0.9657 above .90
						58791	SATANTA3 115 0.9494	0.9720 above .90
						58837	NLIB 3 115 0.9111	0.9642 above .90
						58753	CIM-PLT113.8 0.9111	0.9598 above .90
						58772	E-LIBER3 115 0.9120	0.9666 above .90
						58790	S-LIBER3 115 0.9112	0.9659 above .90
						58800	W-LIBER3 115 0.9087	0.9620 above .90
CONTINGENCY SPP-28								
51534	[TUCO 7] 54119 [O.K.U.-7]	CKT 1	VOLTAGE LESS THAN	0.9500:		58752	CMRIVTP3 115 0.9245	0.9699 above .90
51533	[TUCO 6] 51534 [TUCO 7]	CKT 1				58754	CIM-PLT3 115 0.9227	0.9678 above .90
54119	[O.K.U.-7] 54131 [L.E.S.-7]	CKT 1				58782	NLIBTAP3 115 0.9123	0.9657 above .90
54119	[O.K.U.-7] 59991 [OKLAUN 7]	CKT 1				58791	SATANTA3 115 0.9492	0.9720 above .90
						58837	NLIB 3 115 0.9106	0.9642 above .90
						58753	CIM-PLT113.8 0.9107	0.9598 above .90
						58772	E-LIBER3 115 0.9116	0.9666 above .90
						58790	S-LIBER3 115 0.9107	0.9659 above .90
						58800	W-LIBER3 115 0.9083	0.9620 above .90

5. 2001 APRIL MINIMUM

58752	[CMRIVTP3] 58759 [CUDAHY 3]	CKT 1	VOLTAGE GREATER THAN	1.0500:		58806	CUDAHY 134.5 1.0705	1.0471 LTC
58786	[PLAINVL3] 56551 [SALINE 3]	CKT 1	VOLTAGE GREATER THAN	1.0500:		58824	PHLBURG134.5 1.0627	1.0361 LTC
						58825	PLAINVL134.5 1.0775	1.0360 LTC
CONTINGENCY SPP-16								
56446	[HLCXFMR6] 56449 [HOLCOMB7]	CKT 1	VOLTAGE GREATER THAN	1.0500:		58795	SPEARVL6 230 1.0540	1.0302 LTC
56446	[HLCXFMR6] 56448 [HOLCOMB3]	CKT 1						
56446	[HLCXFMR6] 56450 [HOLCTER1]	CKT 1						

6. 2001 FALL PEAK

58752	[CMRIVTP3] 58759 [CUDAHY 3]	CKT 1	VOLTAGE GREATER THAN	1.0500:		58806	CUDAHY 134.5 1.0670	1.0449 LTC
			VOLTAGE LESS THAN	0.9500:		58753	CIM-PLT113.8 0.9456	0.9803 above .90
58756	[CLIFTON3] 58765 [GRNLEAF3]	CKT 1	VOLTAGE GREATER THAN	1.0500:		58804	CLIFSUB134.5 1.0559	1.0329 LTC

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X)(V-CONT)	(V-INIT)
58759 [CUDAHY 3] 58771 [JUD-LRG3] CKT 1	VOLTAGE LESS THAN 0.9500:	58753 CIM-PLT113.8 0.9448 58800 W-LIBER3 115 0.9497	0.9803 above .90 0.9827 above .90
58773 [MED-LDG3] 58787 [PRATT 3] CKT 1	VOLTAGE GREATER THAN 1.0500: VOLTAGE LESS THAN 0.9500:	58817 MED-LDG134.5 1.0692 58787 PRATT 3 115 0.9489	1.0464 LTC 0.9896 above .90
58773 [MED-LDG3] 58797 [SUNCITY3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58833 SUNCITY134.5 1.0619	1.0392 LTC
58778 [MULGREN3] 58779 [MULGREN6] CKT 1	VOLTAGE LESS THAN 0.9500:	58760 EHALLTP3 115 0.9345 58762 ELLSWTH3 115 0.9382 58777 MULGREN113.8 0.9260 58781 N-GBEND3 115 0.9236 58789 S-GBEND3 115 0.9206 58796 ST-JOHN3 115 0.9487 58801 RUSSELL3 115 0.9365 58819 MULLERG134.5 0.9485 58823 OTISSUB134.5 0.9396 58761 E-GBEND3 115 0.9212 58766 GBENDTP3 115 0.9316 58778 MULGREN3 115 0.9260 58784 OTISSUB3 115 0.9240 58792 SEWARD 3 115 0.9428 58798 WALDO 3 115 0.9446 58807 E-GBEND134.5 0.9428 58821 N-GBEND134.5 0.9445 58828 S-GBEND134.5 0.9399	1.0093 above .90 1.0146 above .90 1.0155 above .90 1.0139 above .90 1.0119 above .90 0.9908 above .90 1.0085 above .90 1.0403 above .90 1.0373 above .90 1.0123 above .90 1.0102 above .90 1.0155 above .90 1.0144 above .90 0.9994 above .90 1.0073 above .90 1.0405 above .90 1.0409 above .90 1.0381 above .90
58782 [NLIBTAP3] 58837 [NLIB 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58816 E-LIBER134.5 1.0644 58829 S-LIBER134.5 1.0640	1.0433 LTC 1.0425 LTC
58754 [CIM-PLT3] 56455 [NCIMARN3] CKT 1	VOLTAGE LESS THAN 0.9500:	58753 CIM-PLT113.8 0.9417 58800 W-LIBER3 115 0.9486	0.9803 above .90 0.9827 above .90
7. 2001 SUMMER PEAK			
58757 [CONCORD3] 58758 [CONCORD6] CKT 1	VOLTAGE LESS THAN 0.9500:	58785 PHLBURG3 115 0.9467 58793 SMITH-C3 115 0.9430 58798 WALDO 3 115 0.9441	0.9856 above .90 0.9938 above .90 0.9842 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58760	[EHALLTP3] 58778 [MULGREN3] CKT 1			VOLTAGE LESS THAN 0.9500:		58760 EHALLTP3 115	0.8780	0.9878 planned
						58793 SMITH-C3 115	0.9479	0.9938 2002
						58801 RUSSELL3 115	0.8805	0.9863 Ellsworth
						58834 WALDO 134.5	0.9245	1.0332 to
						58762 ELLSWTH3 115	0.8802	0.9945 Rice
						58798 WALDO 3 115	0.8916	0.9842
						58808 ELLSWTH134.5	0.9185	1.0437
58764	[GRNBURG3] 58771 [JUD-LRG3] CKT 1			VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.9333	0.9534 above .90
58764	[GRNBURG3] 58797 [SUNCITY3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0762	1.0482 LTC
				VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9478	0.9794 above .90
						58787 PRATT 3 115	0.9301	0.9534 above .90
						58797 SUNCITY3 115	0.9485	0.9895 above .90
58766	[GBENDTP3] 58778 [MULGREN3] CKT 1			VOLTAGE LESS THAN 0.9500:		58766 GBENDTP3 115	0.9390	0.9976 above .90
						58787 PRATT 3 115	0.9296	0.9534 above .90
						58792 SEWARD 3 115	0.9387	0.9801 above .90
						58796 ST-JOHN3 115	0.9324	0.9634 above .90
58766	[GBENDTP3] 58792 [SEWARD 3] CKT 1			VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.9288	0.9534 above .90
						58792 SEWARD 3 115	0.9372	0.9801 above .90
						58796 ST-JOHN3 115	0.9314	0.9634 above .90
58768	[HARPER 4] 58775 [MILANTP4] CKT 1			VOLTAGE LESS THAN 0.9500:		58768 HARPER 4 138	0.9061	0.9999 above .90
						58773 MED-LDG3 115	0.9249	0.9794 above .90
						58774 MED-LDG4 138	0.9229	0.9895 above .90
						58787 PRATT 3 115	0.9165	0.9534 above .90
						58797 SUNCITY3 115	0.9455	0.9895 above .90
						58813 HARPER 134.5	0.9322	1.0448 above .90
58773	[MED-LDG3] 58774 [MED-LDG4] CKT 1			VOLTAGE GREATER THAN 1.0500:		58813 HARPER 134.5	1.0655	1.0448 LTC
58773	[MED-LDG3] 58787 [PRATT 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58813 HARPER 134.5	1.0660	1.0448 LTC
						58817 MED-LDG134.5	1.0844	1.0438 LTC
						58787 PRATT 3 115	0.8974	0.9534 generation
						58796 ST-JOHN3 115	0.9338	0.9634 generation
58773	[MED-LDG3] 58797 [SUNCITY3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0834	1.0482 LTC
						58833 SUNCITY134.5	1.1041	1.0495 LTC
				VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9461	0.9794 above .90
						58787 PRATT 3 115	0.9292	0.9534 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X)(V-CONT)	(V-INIT)
58779 [MULGREN6] 58795 [SPEARVL6] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9499	0.9838 above .90
58782 [NLIBTAP3] 58837 [NLIB 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58816 E-LIBER134.5 1.0690 58829 S-LIBER134.5 1.0670	1.0475 LTC 1.0448 LTC
58787 [PRATT 3] 58796 [ST-JOHN3] CKT 1	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9139	0.9534 above .90
58792 [SEWARD 3] 58796 [ST-JOHN3] CKT 1	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9137 58796 ST-JOHN3 115 0.9120	0.9534 above .90 0.9634 above .90
58779 [MULGREN6] 56601 [HEIZER 3] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9329	0.9838 above .90
58786 [PLAINVL3] 56551 [SALINE 3] CKT 1	VOLTAGE LESS THAN 0.9500:	58785 PHLBURG3 115 0.9323 58786 PLAINVL3 115 0.9269	0.9856 above .90 0.9916 above .90
58795 [SPEARVL6] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9482 58791 SATANTA3 115 0.9499	0.9838 above .90 0.9748 above .90
CONTINGENCY SPP-16			
56446 [HLCXFMR6] 56449 [HOLCOMB7] CKT 1	VOLTAGE LESS THAN 0.9500:	58791 SATANTA3 115 0.9492	0.9748 above .90
56446 [HLCXFMR6] 56448 [HOLCOMB3] CKT 1			
56446 [HLCXFMR6] 56450 [HOLCTER1] CKT 1			
CONTINGENCY SPP-17			
56469 [SPERVIL7] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58751 ALEXNDR3 115 0.9455	0.9838 above .90
56470 [SPERXFR6] 58795 [SPEARVL6] CKT 1		58791 SATANTA3 115 0.9496	0.9748 above .90
56468 [SPERTER1] 56470 [SPERXFR6] CKT 1			
8. 2001 SPRING PEAK			
58752 [CMRIVTP3] 58759 [CUDAHY 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58806 CUDAHY 134.5 1.0688	1.0454 LTC
	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115 0.9469	0.9812 above .90
		58753 CIM-PLT113.8 0.9376	0.9723 above .90
		58754 CIM-PLT3 115 0.9473	0.9792 above .90
		58772 E-LIBER3 115 0.9476	0.9794 above .90
		58782 NLIBTAP3 115 0.9466	0.9785 above .90
		58790 S-LIBER3 115 0.9471	0.9790 above .90
		58800 W-LIBER3 115 0.9435	0.9755 above .90
		58837 NLIB 3 115 0.9454	0.9774 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X)(V-CONT)	(V-INIT)
58759 [CUDAHY 3] 58771 [JUD-LRG3] CKT 1	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115 0.9470	0.9812 above .90
		58753 CIM-PLT113.8 0.9377	0.9723 above .90
		58754 CIM-PLT3 115 0.9474	0.9792 above .90
		58759 CUDAHY 3 115 0.9464	0.9966 above .90
		58772 E-LIBER3 115 0.9477	0.9794 above .90
		58782 NLIBTAP3 115 0.9467	0.9785 above .90
		58790 S-LIBER3 115 0.9472	0.9790 above .90
		58800 W-LIBER3 115 0.9436	0.9755 above .90
		58837 NLIB 3 115 0.9455	0.9774 above .90
58773 [MED-LDG3] 58787 [PRATT 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58817 MED-LDG134.5 1.0656	1.0352 LTC
		58833 SUNCITY134.5 1.0637	1.0386 LTC
	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9434	0.9788 above .90
58773 [MED-LDG3] 58797 [SUNCITY3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58810 GRNBURG134.5 1.0616	1.0394 LTC
		58833 SUNCITY134.5 1.0725	1.0386 LTC
58778 [MULGREN3] 58779 [MULGREN6] CKT 1	VOLTAGE LESS THAN 0.9500:	58761 E-GBEND3 115 0.9491	0.9965 above .90
		58789 S-GBEND3 115 0.9487	0.9962 above .90
58792 [SEWARD 3] 58796 [ST-JOHN3] CKT 1	VOLTAGE LESS THAN 0.9500:	58796 ST-JOHN3 115 0.9401	0.9739 above .90
58754 [CIM-PLT3] 56455 [NCIMARN3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58830 SATANTA134.5 1.0681	1.0447 LTC
	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115 0.9488	0.9812 above .90
		58753 CIM-PLT113.8 0.9346	0.9723 above .90
		58754 CIM-PLT3 115 0.9444	0.9792 above .90
		58772 E-LIBER3 115 0.9469	0.9794 above .90
		58782 NLIBTAP3 115 0.9455	0.9785 above .90
		58790 S-LIBER3 115 0.9463	0.9790 above .90
		58800 W-LIBER3 115 0.9424	0.9755 above .90
		58837 NLIB 3 115 0.9443	0.9774 above .90
58786 [PLAINVL3] 56551 [SALINE 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58824 PHLBURG134.5 1.0592	1.0389 LTC
		58825 PLAINVL134.5 1.0760	1.0396 LTC
58795 [SPEARVL6] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58753 CIM-PLT113.8 0.9493	0.9723 above .90
CONTINGENCY SPP-17			
56469 [SPERVIL7] 56470 [SPERXFR6] CKT 1	VOLTAGE LESS THAN 0.9500:	58753 CIM-PLT113.8 0.9496	0.9723 above .90
56470 [SPERXFR6] 58795 [SPEARVL6] CKT 1			
56468 [SPERTER1] 56470 [SPERXFR6] CKT 1			

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

9. 2001 WINTER

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X) (V-CONT)	(V-INIT)		
58752 [CMRIVTP3] 58759 [CUDAHY 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58806 CUDAHY 134.5 1.0752	1.0428 LTC		
	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115 0.9229	0.9697 above .90		
		58753 CIM-PLT113.8 0.9120	0.9595 above .90		
		58754 CIM-PLT3 115 0.9239	0.9675 above .90		
		58772 E-LIBER3 115 0.9226	0.9662 above .90		
		58782 NLIBTAP3 115 0.9215	0.9653 above .90		
		58790 S-LIBER3 115 0.9218	0.9655 above .90		
		58791 SATANTA3 115 0.9422	0.9719 above .90		
		58800 W-LIBER3 115 0.9175	0.9615 above .90		
		58837 NLIB 3 115 0.9199	0.9638 above .90		
58759 [CUDAHY 3] 58771 [JUD-LRG3] CKT 1	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115 0.9216	0.9697 above .90		
		58753 CIM-PLT113.8 0.9106	0.9595 above .90		
		58754 CIM-PLT3 115 0.9226	0.9675 above .90		
		58759 CUDAHY 3 115 0.9205	0.9899 above .90		
		58772 E-LIBER3 115 0.9213	0.9662 above .90		
		58782 NLIBTAP3 115 0.9202	0.9653 above .90		
		58790 S-LIBER3 115 0.9205	0.9655 above .90		
		58791 SATANTA3 115 0.9410	0.9719 above .90		
		58800 W-LIBER3 115 0.9162	0.9615 above .90		
		58837 NLIB 3 115 0.9186	0.9638 above .90		
		58773 [MED-LDG3] 58787 [PRATT 3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58817 MED-LDG134.5 1.0624	1.0376 LTC
58833 SUNCITY134.5 1.0654	1.0444 LTC				
	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9382	0.9870 above .90		
58773 [MED-LDG3] 58797 [SUNCITY3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58810 GRNBURG134.5 1.0674	1.0470 LTC		
		58833 SUNCITY134.5 1.0742	1.0444 LTC		
58778 [MULGREN3] 58779 [MULGREN6] CKT 1	VOLTAGE LESS THAN 0.9500:	58760 EHALLTP3 115 0.9245	1.0069 above .90		
		58761 E-GBEND3 115 0.9078	1.0073 above .90		
		58762 ELLSWTH3 115 0.9274	1.0116 above .90		
		58766 GBENDTP3 115 0.9203	1.0064 above .90		
		58777 MULGREN113.8 0.9137	1.0112 above .90		
		58778 MULGREN3 115 0.9137	1.0112 above .90		
		58781 N-GBEND3 115 0.9107	1.0092 above .90		
		58784 OTISSUB3 115 0.9112	1.0097 above .90		
		58787 PRATT 3 115 0.9489	0.9870 above .90		
		58789 S-GBEND3 115 0.9072	1.0068 above .90		

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
						58792 SEWARD 3 115	0.9334	0.9966 above .90
						58796 ST-JOHN3 115	0.9408	0.9888 above .90
						58798 WALDO 3 115	0.9377	1.0072 above .90
						58801 RUSSELL3 115	0.9272	1.0066 above .90
						58807 E-GBEND134.5	0.9326	1.0402 above .90
						58808 ELLSWTH134.5	0.9459	1.0342 above .90
						58819 MULLERG134.5	0.9359	1.0359 above .90
						58821 N-GBEND134.5	0.9290	1.0345 above .90
						58823 OTISSUB134.5	0.9292	1.0369 above .90
						58828 S-GBEND134.5	0.9292	1.0374 above .90
58779	[MULGREN6]	58795 [SPEARVL6] CKT 1		VOLTAGE LESS THAN	0.9500:	58751 ALEXNDR3 115	0.9415	1.0116 above .90
						58760 EHALLTP3 115	0.9402	1.0069 above .90
						58761 E-GBEND3 115	0.9329	1.0073 above .90
						58762 ELLSWTH3 115	0.9434	1.0116 above .90
						58766 GBENDTP3 115	0.9355	1.0064 above .90
						58777 MULGREN113.8	0.9383	1.0112 above .90
						58778 MULGREN3 115	0.9383	1.0112 above .90
						58779 MULGREN6 230	0.9423	1.0112 above .90
						58781 N-GBEND3 115	0.9356	1.0092 above .90
						58784 OTISSUB3 115	0.9360	1.0097 above .90
						58786 PLAINVL3 115	0.9492	1.0020 above .90
						58787 PRATT 3 115	0.9359	0.9870 above .90
						58789 S-GBEND3 115	0.9323	1.0068 above .90
						58792 SEWARD 3 115	0.9297	0.9966 above .90
						58796 ST-JOHN3 115	0.9283	0.9888 above .90
						58798 WALDO 3 115	0.9465	1.0072 above .90
						58801 RUSSELL3 115	0.9413	1.0066 above .90
58782	[NLIBTAP3]	58837 [NLIB 3] CKT 1		VOLTAGE GREATER THAN	1.0500:	58816 E-LIBER134.5	1.0697	1.0449 LTC
						58829 S-LIBER134.5	1.0679	1.0426 LTC
58800	[W-LIBER3]	58836 [W-LIBER1] CKT 1		VOLTAGE GREATER THAN	1.0500:	58838 NLIB 134.5	1.0675	1.0457 LTC
58800	[W-LIBER3]	58837 [NLIB 3] CKT 1		VOLTAGE GREATER THAN	1.0500:	58838 NLIB 134.5	1.0669	1.0457 LTC
58754	[CIM-PLT3]	56455 [NCIMARN3] CKT 1		VOLTAGE GREATER THAN	1.0500:	58830 SATANTA134.5	1.0670	1.0385 LTC
				VOLTAGE LESS THAN	0.9500:	58752 CMRIVTP3 115	0.9240	0.9697 above .90
						58753 CIM-PLT113.8	0.9065	0.9595 above .90
						58754 CIM-PLT3 115	0.9187	0.9675 above .90
						58772 E-LIBER3 115	0.9203	0.9662 above .90
						58782 NLIBTAP3 115	0.9187	0.9653 above .90
						58790 S-LIBER3 115	0.9194	0.9655 above .90
						58800 W-LIBER3 115	0.9146	0.9615 above .90
						58837 NLIB 3 115	0.9170	0.9638 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

10. 2004 SUMMER PEAK

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X) (V-CONT)	(V-INIT)
BASE CASE	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9418	0.9418 above .90
58757 [CONCORD3] 58758 [CONCORD6] CKT 1	VOLTAGE LESS THAN 0.9500:	58763 GLENELD3 115 0.9477 58785 PHLBURG3 115 0.9418 58793 SMITH-C3 115 0.9407	0.9963 above .90 0.9784 above .90 0.9871 above .90
58764 [GRNBURG3] 58771 [JUD-LRG3] CKT 1	VOLTAGE LESS THAN 0.9500:	58764 GRNBURG3 115 0.9498 58773 MED-LDG3 115 0.9370 58774 MED-LDG4 138 0.9436 58787 PRATT 3 115 0.9180 58797 SUNCITY3 115 0.9433	0.9963 above .90 0.9689 above .90 0.9757 above .90 0.9418 above .90 0.9813 above .90
58764 [GRNBURG3] 58797 [SUNCITY3] CKT 1	VOLTAGE GREATER THAN 1.0500: VOLTAGE LESS THAN 0.9500:	58810 GRNBURG134.5 1.0748 58773 MED-LDG3 115 0.9320 58774 MED-LDG4 138 0.9414 58787 PRATT 3 115 0.9158 58797 SUNCITY3 115 0.9324	1.0426 LTC 0.9689 above .90 0.9757 above .90 0.9418 above .90 0.9813 above .90
58766 [GBENDTP3] 58778 [MULGREN3] CKT 1	VOLTAGE LESS THAN 0.9500:	58766 GBENDTP3 115 0.9272 58787 PRATT 3 115 0.9144 58792 SEWARD 3 115 0.9269 58796 ST-JOHN3 115 0.9192	0.9939 above .90 0.9418 above .90 0.9739 above .90 0.9541 above .90
58766 [GBENDTP3] 58792 [SEWARD 3] CKT 1	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115 0.9136 58792 SEWARD 3 115 0.9254 58796 ST-JOHN3 115 0.9181	0.9418 above .90 0.9739 above .90 0.9541 above .90
58768 [HARPER 4] 58774 [MED-LDG4] CKT 1	VOLTAGE LESS THAN 0.9500:	58773 MED-LDG3 115 0.9447 58774 MED-LDG4 138 0.9447	0.9689 above .90 0.9757 above .90
58768 [HARPER 4] 58775 [MILANTP4] CKT 1	VOLTAGE LESS THAN 0.9500:	58768 HARPER 4 138 0.8792 58773 MED-LDG3 115 0.9036 58774 MED-LDG4 138 0.9000 58787 PRATT 3 115 0.8969 58796 ST-JOHN3 115 0.9297 58797 SUNCITY3 115 0.9279 58813 HARPER 134.5 0.9089	0.9860 generation 0.9689 generation 0.9757 generation 0.9418 generation 0.9541 generation 0.9813 generation 1.0431 generation
58773 [MED-LDG3] 58774 [MED-LDG4] CKT 1	VOLTAGE GREATER THAN 1.0500: VOLTAGE LESS THAN 0.9500:	58813 HARPER 134.5 1.0647 58773 MED-LDG3 115 0.9448	1.0431 LTC 0.9689 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS -----X)	(V-CONT)	(V-INIT)
58773	[MED-LDG3] 58787 [PRATT 3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0636	1.0426 LTC
						58813 HARPER 134.5	1.0666	1.0431 LTC
						58817 MED-LDG134.5	1.0784	1.0359 LTC
						58833 SUNCITY134.5	1.0790	1.0440 LTC
				VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.8821	0.9418 generation
						58796 ST-JOHN3 115	0.9224	0.9541 generation
58773	[MED-LDG3] 58797 [SUNCITY3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0815	1.0426 LTC
						58833 SUNCITY134.5	1.1065	1.0440 LTC
				VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9314	0.9689 above .90
						58774 MED-LDG4 138	0.9414	0.9757 above .90
						58787 PRATT 3 115	0.9157	0.9418 above .90
58782	[NLIBTAP3] 58837 [NLIB 3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58816 E-LIBER134.5	1.0645	1.0430 LTC
						58829 S-LIBER134.5	1.0676	1.0451 LTC
58787	[PRATT 3] 58796 [ST-JOHN3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9377	0.9689 above .90
						58774 MED-LDG4 138	0.9467	0.9757 above .90
						58787 PRATT 3 115	0.8906	0.9418 OK
58792	[SEWARD 3] 58796 [ST-JOHN3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9418	0.9689 generation
						58787 PRATT 3 115	0.8967	0.9418 generation
						58796 ST-JOHN3 115	0.8966	0.9541 generation
58779	[MULGREN6] 56601 [HEIZER 3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58751 ALEXNDR3 115	0.9326	0.9866 above .90

11. 2004 WINTER PEAK

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS -----X)	(V-CONT)	(V-INIT)
58756	[CLIFTON3] 58765 [GRNLEAF3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58804 CLIFSUB134.5	1.0622	1.0400 LTC
58773	[MED-LDG3] 58787 [PRATT 3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58817 MED-LDG134.5	1.0703	1.0406 LTC
						58833 SUNCITY134.5	1.0667	1.0424 LTC
				VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.9341	0.9822 above .90
58773	[MED-LDG3] 58797 [SUNCITY3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58833 SUNCITY134.5	1.0706	1.0424 LTC
58782	[NLIBTAP3] 58837 [NLIB 3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58816 E-LIBER134.5	1.0705	1.0484 LTC
						58829 S-LIBER134.5	1.0685	1.0459 LTC

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
						58753 CIM-PLT113.8	0.8907	0.9771 generator
						58754 CIM-PLT3 115	0.9056	0.9847 generator
						58759 CUDAHY 3 115	0.9489	0.9982 generator
						58772 E-LIBER3 115	0.9075	0.9822 generator
						58782 NLIBTAP3 115	0.9056	0.9814 generator
						58790 S-LIBER3 115	0.9065	0.9814 generator
						58800 W-LIBER3 115	0.9011	0.9773 generator
						58837 NLIB 3 115	0.9037	0.9797 generator
12. 2006 SUMMER PEAK								
58757	[CONCORD3]	58758 [CONCORD6]	CKT 1	VOLTAGE LESS THAN	0.9500:	58763 GLENELD3 115	0.9443	0.9969 above .90
						58769 JEWELL 3 115	0.9473	1.0015 above .90
						58785 PHLBURG3 115	0.9403	0.9791 above .90
						58793 SMITH-C3 115	0.9387	0.9880 above .90
58764	[GRNBURG3]	58771 [JUD-LRG3]	CKT 1	VOLTAGE LESS THAN	0.9500:	58773 MED-LDG3 115	0.9469	0.9754 above .90
						58787 PRATT 3 115	0.9363	0.9581 above .90
58764	[GRNBURG3]	58797 [SUNCITY3]	CKT 1	VOLTAGE GREATER THAN	1.0500:	58810 GRNBURG134.5	1.0719	1.0445 above .90
				VOLTAGE LESS THAN	0.9500:	58773 MED-LDG3 115	0.9422	0.9754 above .90
						58774 MED-LDG4 138	0.9483	0.9795 above .90
						58787 PRATT 3 115	0.9343	0.9581 above .90
						58797 SUNCITY3 115	0.9424	0.9858 above .90
58766	[GBENDTP3]	58792 [SEWARD 3]	CKT 1	VOLTAGE LESS THAN	0.9500:	58787 PRATT 3 115	0.9380	0.9581 above .90
58768	[HARPER 4]	58775 [MILANTP4]	CKT 1	VOLTAGE LESS THAN	0.9500:	58768 HARPER 4 138	0.8911	0.9849 generator
						58773 MED-LDG3 115	0.9169	0.9754 generator
						58774 MED-LDG4 138	0.9129	0.9795 generator
						58787 PRATT 3 115	0.9173	0.9581 generator
						58797 SUNCITY3 115	0.9377	0.9858 generator
						58813 HARPER 134.5	0.9192	1.0374 generator
58773	[MED-LDG3]	58787 [PRATT 3]	CKT 1	VOLTAGE GREATER THAN	1.0500:	58817 MED-LDG134.5	1.0677	1.0417 LTC
				VOLTAGE LESS THAN	0.9500:	58833 SUNCITY134.5	1.0614	1.0399 LTC
						58787 PRATT 3 115	0.9173	0.9581 above .90
58773	[MED-LDG3]	58797 [SUNCITY3]	CKT 1	VOLTAGE GREATER THAN	1.0500:	58810 GRNBURG134.5	1.0778	1.0445 LTC
				VOLTAGE LESS THAN	0.9500:	58833 SUNCITY134.5	1.0927	1.0399 LTC
						58773 MED-LDG3 115	0.9420	0.9754 above .90
						58774 MED-LDG4 138	0.9487	0.9795 above .90
						58787 PRATT 3 115	0.9345	0.9581 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58782	[NLIBTAP3] 58837 [NLIB 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58816 E-LIBER134.5	1.0682	1.0445 LTC
						58829 S-LIBER134.5	1.0694	1.0446 LTC
58785	[PHLBURG3] 58786 [PLAINVL3] CKT 1			VOLTAGE LESS THAN 0.9500:		58785 PHLBURG3 115	0.9485	0.9791 above .90
58787	[PRATT 3] 58796 [ST-JOHN3] CKT 1			VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9213	0.9754 generator
						58774 MED-LDG4 138	0.9310	0.9795 generator
						58787 PRATT 3 115	0.8694	0.9581 generator
						58797 SUNCITY3 115	0.9413	0.9858 generator
						58826 PRATT 134.5	0.9445	1.0425 generator
58792	[SEWARD 3] 58796 [ST-JOHN3] CKT 1			VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.9325	0.9581 above .90
						58796 ST-JOHN3 115	0.9479	0.9801 above .90
58779	[MULGREN6] 56601 [HEIZER 3] CKT 1			VOLTAGE LESS THAN 0.9500:		58751 ALEXNDR3 115	0.9392	0.9905 above .90
13. 2006 WINTER PEAK								
58752	[CMRIVTP3] 58759 [CUDAHY 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58806 CUDAHY 134.5	1.0664	1.0442 LTC
				VOLTAGE LESS THAN 0.9500:		58753 CIM-PLT113.8	0.9499	0.9748 above .90
58757	[CONCORD3] 58758 [CONCORD6] CKT 1			VOLTAGE LESS THAN 0.9500:		58805 CONCORD134.5	0.9480	1.0364 above .90
58759	[CUDAHY 3] 58771 [JUD-LRG3] CKT 1			VOLTAGE LESS THAN 0.9500:		58753 CIM-PLT113.8	0.9489	0.9748 above .90
58773	[MED-LDG3] 58787 [PRATT 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58817 MED-LDG134.5	1.0618	1.0342 LTC
				VOLTAGE LESS THAN 0.9500:		58833 SUNCITY134.5	1.0584	1.0356 LTC
						58787 PRATT 3 115	0.9362	0.9790 above .90
58773	[MED-LDG3] 58797 [SUNCITY3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0532	1.0304 LTC
						58833 SUNCITY134.5	1.0706	1.0356 LTC
58782	[NLIBTAP3] 58837 [NLIB 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58816 E-LIBER134.5	1.0700	1.0459 LTC
						58829 S-LIBER134.5	1.0739	1.0490 LTC
58792	[SEWARD 3] 58796 [ST-JOHN3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58826 PRATT 134.5	1.0651	1.0352 LTC
58800	[W-LIBER3] 58836 [W-LIBER1] CKT 1			VOLTAGE GREATER THAN 1.0500:		58838 NLIB 134.5	1.0656	1.0449 LTC
58800	[W-LIBER3] 58837 [NLIB 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58838 NLIB 134.5	1.0651	1.0449 LTC

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(OUTAGED BRANCH)	(VOLTAGE RANGE)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58754 [CIM-PLT3] 56455 [NCIMARN3] CKT 1	VOLTAGE GREATER THAN 1.0500:	58830 SATANTA134.5	1.0658	1.0382 LTC
	VOLTAGE LESS THAN 0.9500:	58752 CMRIVTP3 115	0.9099	0.9838 LTC
		58753 CIM-PLT113.8	0.8890	0.9748 generation
		58754 CIM-PLT3 115	0.9041	0.9826 generation
		58759 CUDAHY 3 115	0.9484	0.9981 generation
		58772 E-LIBER3 115	0.9060	0.9807 generation
		58782 NLIBTAP3 115	0.9040	0.9796 generation
		58790 S-LIBER3 115	0.9049	0.9798 generation
		58800 W-LIBER3 115	0.8992	0.9753 generation
		58837 NLIB 3 115	0.9019	0.9779 generation

14. 2010 SUMMER

BASE CASE	VOLTAGE LESS THAN 0.9500:	58787 PRATT 3 115	0.9433	0.9433 above .90
58754 [CIM-PLT3] 58782 [NLIBTAP3] CKT 1	VOLTAGE LESS THAN 0.9500:	58782 NLIBTAP3 115	0.9475	0.9684 above .90
		58800 W-LIBER3 115	0.9417	0.9630 above .90
		58837 NLIB 3 115	0.9442	0.9653 above .90
58757 [CONCORD3] 58758 [CONCORD6] CKT 1	VOLTAGE LESS THAN 0.9500:	58757 CONCORD3 115	0.9416	1.0072 above .90
		58763 GLENELD3 115	0.9281	0.9819 above .90
		58769 JEWELL 3 115	0.9320	0.9879 above .90
		58785 PHLBURG3 115	0.9284	0.9658 above .90
		58793 SMITH-C3 115	0.9259	0.9738 above .90
		58798 WALDO 3 115	0.9476	0.9758 above .90
58757 [CONCORD3] 58763 [GLENELD3] CKT 1	VOLTAGE LESS THAN 0.9500:	58763 GLENELD3 115	0.9341	0.9819 above .90
		58785 PHLBURG3 115	0.9404	0.9658 above .90
		58793 SMITH-C3 115	0.9408	0.9738 above .90
58757 [CONCORD3] 58769 [JEWELL 3] CKT 1	VOLTAGE LESS THAN 0.9500:	58769 JEWELL 3 115	0.9445	0.9879 above .90
58764 [GRNBURG3] 58771 [JUD-LRG3] CKT 1	VOLTAGE LESS THAN 0.9500:	58764 GRNBURG3 115	0.9414	0.9910 above .90
		58773 MED-LDG3 115	0.9310	0.9652 above .90
		58774 MED-LDG4 138	0.9370	0.9709 above .90
		58787 PRATT 3 115	0.9175	0.9433 above .90
		58797 SUNCITY3 115	0.9358	0.9769 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58764	[GRNBURG3] 58797 [SUNCITY3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0729	1.0435 LTC
				VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9291	0.9652 above .90
						58774 MED-LDG4 138	0.9378	0.9709 above .90
						58787 PRATT 3 115	0.9177	0.9433 above .90
						58797 SUNCITY3 115	0.9289	0.9769 above .90
58766	[GBENDTP3] 58778 [MULGREN3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58766 GBENDTP3 115	0.9417	0.9956 above .90
						58787 PRATT 3 115	0.9198	0.9433 above .90
						58792 SEWARD 3 115	0.9414	0.9798 above .90
						58796 ST-JOHN3 115	0.9366	0.9666 above .90
58766	[GBENDTP3] 58792 [SEWARD 3]	CKT 1		VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.9189	0.9433 above .90
						58792 SEWARD 3 115	0.9398	0.9798 above .90
						58796 ST-JOHN3 115	0.9355	0.9666 above .90
58768	[HARPER 4] 58774 [MED-LDG4]	CKT 1		VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9389	0.9652 above .90
						58774 MED-LDG4 138	0.9389	0.9709 above .90
58768	[HARPER 4] 58775 [MILANTP4]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58818 MILAN 134.5	1.0669	1.0468 LTC
				VOLTAGE LESS THAN 0.9500:		58764 GRNBURG3 115	0.9394	0.9910 generation
						58768 HARPER 4 138	0.8329	0.9819 generation
						58773 MED-LDG3 115	0.8722	0.9652 generation
						58774 MED-LDG4 138	0.8641	0.9709 generation
						58787 PRATT 3 115	0.8775	0.9433 generation
						58796 ST-JOHN3 115	0.9294	0.9666 generation
						58797 SUNCITY3 115	0.9009	0.9769 generation
						58813 HARPER 134.5	0.8322	1.0317 generation
						58817 MED-LDG134.5	0.9253	1.0331 generation
58773	[MED-LDG3] 58774 [MED-LDG4]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58813 HARPER 134.5	1.0564	1.0317 LTC
				VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9389	0.9652 above .90
58773	[MED-LDG3] 58787 [PRATT 3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58813 HARPER 134.5	1.0518	1.0317 generation
						58817 MED-LDG134.5	1.0679	1.0331 generation
						58833 SUNCITY134.5	1.0746	1.0457 generation
				VOLTAGE LESS THAN 0.9500:		58787 PRATT 3 115	0.8918	0.9433 generation
						58796 ST-JOHN3 115	0.9386	0.9666 generation
58773	[MED-LDG3] 58797 [SUNCITY3]	CKT 1		VOLTAGE GREATER THAN 1.0500:		58810 GRNBURG134.5	1.0781	1.0435 LTC
						58833 SUNCITY134.5	1.1026	1.0457 LTC
				VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9300	0.9652 above .90
						58774 MED-LDG4 138	0.9391	0.9709 above .90
						58787 PRATT 3 115	0.9185	0.9433 above .90

SUMMARY: VOLTAGE LIMIT TABLE, WEPL

(	OUTAGED BRANCH	)	(	VOLTAGE RANGE	)	(X----- BUS ----X)	(V-CONT)	(V-INIT)
58780	[N-DODGE3] 58840 [EDODGE 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58839 EDODGE 134.5	1.0662	1.0461 LTC
58782	[NLIBTAP3] 58837 [NLIB 3] CKT 1			VOLTAGE GREATER THAN 1.0500:		58816 E-LIBER134.5	1.0713	1.0438 LTC
						58829 S-LIBER134.5	1.0673	1.0389 LTC
58785	[PHLBURG3] 58786 [PLAINVL3] CKT 1			VOLTAGE LESS THAN 0.9500:		58785 PHLBURG3 115	0.9244	0.9658 above .90
58785	[PHLBURG3] 58824 [PHLBURG1] CKT 1			VOLTAGE GREATER THAN 1.0500:		58831 SMITH-C134.5	1.0658	1.0428 LTC
58787	[PRATT 3] 58796 [ST-JOHN3] CKT 1			VOLTAGE LESS THAN 0.9500:		58768 HARPER 4 138	0.9481	0.9819 generation
						58773 MED-LDG3 115	0.9042	0.9652 generation
						58774 MED-LDG4 138	0.9155	0.9709 generation
						58787 PRATT 3 115	0.8444	0.9433 generation
						58797 SUNCITY3 115	0.9267	0.9769 generation
						58826 PRATT 134.5	0.9272	1.0381 generation
58792	[SEWARD 3] 58796 [ST-JOHN3] CKT 1			VOLTAGE LESS THAN 0.9500:		58773 MED-LDG3 115	0.9421	0.9652 above .90
						58774 MED-LDG4 138	0.9495	0.9709 above .90
						58787 PRATT 3 115	0.9053	0.9433 above .90
						58796 ST-JOHN3 115	0.9185	0.9666 above .90
58799	[W-DODGE3] 58835 [W-DODGE1] CKT 1			VOLTAGE GREATER THAN 1.0500:		58812 HAGGARD134.5	1.0637	1.0395 LTC
58779	[MULGREN6] 56601 [HEIZER 3] CKT 1			VOLTAGE LESS THAN 0.9500:		58751 ALEXNDR3 115	0.9372	0.9888 above .90
						58785 PHLBURG3 115	0.9452	0.9658 above .90
58786	[PLAINVL3] 56551 [SALINE 3] CKT 1			VOLTAGE LESS THAN 0.9500:		58785 PHLBURG3 115	0.9278	0.9658 above .90
						58786 PLAINVL3 115	0.9349	0.9819 above .90
						58793 SMITH-C3 115	0.9467	0.9738 above .90
						58798 WALDO 3 115	0.9453	0.9758 above .90

V. STUDY RESULTS

1. 2000 FALL PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 8:03
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2000 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	122.1	344.4	0.0	0.0	0.0	-236.0	13.7	-236.0
WEPL	-1.7	116.7	-144.5	0.0	124.2	70.8	79.4	
TOTALS	122.1	344.4	0.0	0.0	0.0	-236.0	13.7	-236.0
	-1.7	116.7	-144.5	0.0	124.2	70.8	79.4	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 8:18
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2000 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X--TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-166.0		
539 [WEPL]	536 [WERE]	2	2.0	-236.0	-236.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 8:19
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2000 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	-2	2	0	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	-2	1	0	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1	122.1	-1.7	98.0	-45.0	143.0	30.0	30.0	1	1.000
58777	MULGREN113.8	-2	3	0	0	0.0	0.0	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2000 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES

TRANSFORMER DATA

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0250	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	0.9937	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0063	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0500	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0187	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0063	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0375	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0375	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0375	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0250	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0125	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9812	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0250	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0187	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0313	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0063	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0187	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0313	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0125	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0250	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0187	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0187	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0188	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0313	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0250	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0562	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0562	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0125	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0250	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0063	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0500	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0313	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0812	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0562	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0375	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 8:27
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]

BRANCH LOADINGS ABOVE 100% OF RATING SET A:

X-----FROM BUS-----X	X-----TO BUS-----X	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

• NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 10:00
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X----- BUS -----X	AREA V(PU)	V(KV)	X----- BUS -----X	AREA V(PU)	V(KV)
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* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X----- BUS -----X	AREA V(PU)	V(KV)	X----- BUS -----X	AREA V(PU)	V(KV)
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* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & VOLTAGE REPORT

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2000 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

DISTRIBUTION FACTOR FILE: Dfax00FA.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmo539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58756 [CLIFTON3115.00] TO BUS 58765 [GRNLEAF3115.00] CKT 1 ----- CONTINGENCY SINGLE 7
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58804 CLIFSUB134.5 1.0674 1.0431

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58759 [CUHAHY 3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 13
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9498 0.9829

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58833 SUNCITY134.5 1.0703 1.0421

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58778 [MULGREN3115.00] TO BUS 58779 [MULGREN6230.00] CKT 1 ----- CONTINGENCY SINGLE 50
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58760 EHALLTP3 115 0.9477 1.0190 58761 E-GBEND3 115 0.9327 1.0206
 58766 GBENDTP3 115 0.9418 1.0175 58777 MULGREN113.8 0.9371 1.0235
 58778 MULGREN3 115 0.9371 1.0235 58781 N-GBEND3 115 0.9349 1.0221
 58784 OTISSUB3 115 0.9348 1.0223 58789 S-GBEND3 115 0.9322 1.0202
 58801 RUSSELL3 115 0.9499 1.0184 58807 E-GBEND134.5 0.9497 1.0432
 58823 OTISSUB134.5 0.9328 1.0342 58828 S-GBEND134.5 0.9470 1.0411

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 56455 [NCIMARN3115.00] CKT 1 ----- CONTINGENCY SINGLE 86
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9453 0.9829

2. 2000 SPRING PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E WED, APR 05 2000 14:19
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2000 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	76.2	313.1	0.0	0.0	0.0	-249.9	13.0	-250.0
WEPL	3.6	105.1	-148.4	0.0	122.8	92.1	77.6	
TOTALS	76.2	313.1	0.0	0.0	0.0	-249.9	13.0	-250.0
	3.6	105.1	-148.4	0.0	122.8	92.1	77.6	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E WED, APR 05 2000 14:21
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2000 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X--TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-166.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-250.0	-250.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E WED, APR 05 2000 14:22
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2000 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	-2	2	0	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	-2	1	0	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1	76.2	3.6	98.0	-45.0	143.0	30.0	30.0	1	1.000
58777	MULGREN113.8	-2	3	0	0	0.0	0.0	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E WED, APR 05 2000 14:22
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA
 2000 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0438	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	0.9750	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	0.9937	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0500	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0375	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0125	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0000	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	0.9875	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	0.9812	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0250	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	0.9937	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9688	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0375	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0438	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0250	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	0.9875	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0375	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0688	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0313	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0438	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0375	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0187	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0250	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0313	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0438	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0562	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0562	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0000	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0313	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	0.9937	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0500	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0313	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0750	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0562	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E WED, APR 05 2000 14:31
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

X-----FROM BUS-----X	X-----TO BUS-----X	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 9:58
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X-----BUS -----X	AREA V(PU)	V(KV)	X-----BUS -----X	AREA V(PU)	V(KV)
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* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X-----BUS -----X	AREA V(PU)	V(KV)	X-----BUS -----X	AREA V(PU)	V(KV)
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* NONE *

H. ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E SUN, APR 02 2000 20:37
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2000 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax00SR.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0739 1.0441 58833 SUNCITY134.5 1.0681 1.0437

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9364 0.9928

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58833 SUNCITY134.5 1.0662 1.0437

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58778 [MULGREN3115.00] TO BUS 58779 [MULGREN6230.00] CKT 1 ----- CONTINGENCY SINGLE 50
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58761 E-GBEND3 115 0.9482 1.0054 58781 N-GBEND3 115 0.9497 1.0065
 58784 OTISSUB3 115 0.9499 1.0067 58789 S-GBEND3 115 0.9478 1.0051

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58786 [PLAINVL3115.00] TO BUS 56551 [SALINE 3115.00] CKT 1 ----- CONTINGENCY SINGLE 88
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58824 PHLBURG134.5 1.0623 1.0388 58825 PLAINVL134.5 1.0862 1.0448

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58795 [SPEARVL6230.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SINGLE 90
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9459 0.9997

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.           PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   SUN, APR 02 2000  20:37   .
.           1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL   .
.           2000 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES   .
. *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***   .
. *** ACCC VOLTAGE REPORT ***   .
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X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X   FROM      NAME      TO      NAME      CKT  PRE-CNT  POST-CNT  RATING  PERCENT
OPEN LINE FROM BUS 56469 [SPERVIL7345.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SPP-17
OPEN LINE FROM BUS 56470 [SPERXFR6287.00] TO BUS 58795 [SPEARVL6230.00] CKT 1
OPEN LINE FROM BUS 56468 [SPERTER113.800] TO BUS 56470 [SPERXFR6287.00] CKT 1

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*** NONE ***

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X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9479 0.9997

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3. 2000 SUMMER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 10:25
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	275.6	521.9	0.0	0.0	0.0	-269.0	22.7	-269.0
WEPL	39.9	174.5	-207.0	0.0	119.6	61.8	130.2	
TOTALS	275.6	521.9	0.0	0.0	0.0	-269.0	22.7	-269.0
	39.9	174.5	-207.0	0.0	119.6	61.8	130.2	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 10:27
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	531 [MIDW]	1	0.0		
539 [WEPL]	534 [SUNC]	1	0.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	534 [SUNC]	3	-190.0		
539 [WEPL]	536 [WERE]	1	-45.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-269.0	-269.0

C. GENERATOR UNIT DATA

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	2	1	1		50.0	8.8	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	2	2	0		0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	2	1	1		30.0	1.4	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1		130.6	15.9	98.0	-45.0	143.0	30.0	1	1.000
58777	MULGREN113.8	2	3	1		65.0	13.8	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

MON, APR 03 2000 10:28

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA
 2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0625	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	1.0000	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0063	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0562	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0313	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0313	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0187	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0000	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0187	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0313	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0500	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	1.0063	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0375	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0250	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0812	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0063	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0375	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0625	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0313	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0688	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0875	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0625	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0438	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0750	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0438	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0688	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0688	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0500	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0375	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0438	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.1000	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0625	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0625	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0688	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0625	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 10:31
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]

BRANCH LOADINGS ABOVE 100% OF RATING SET A:

X-----FROM BUS-----X	X-----TO BUS-----X	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 10:31
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X----- BUS -----X	AREA V(PU)	V(KV)	X----- BUS -----X	AREA V(PU)	V(KV)
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* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X----- BUS -----X	AREA V(PU)	V(KV)	X----- BUS -----X	AREA V(PU)	V(KV)
58787 PRATT	3 115 539	0.9438	108.54		

H. ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2000 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax00SP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 BASE CASE -----
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9438 0.9438

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58758 [CONCORD6230.00] CKT 1 ----- CONTINGENCY SINGLE 9
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58785 PHLBURG3 115 0.9472 0.9837 58793 SMITH-C3 115 0.9425 0.9897
 58798 WALDO 3 115 0.9412 0.9800 58801 RUSSELL3 115 0.9500 0.9824

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58760 [EHALLTP3115.00] TO BUS 58778 [MULGREN3115.00] CKT 1 ----- CONTINGENCY SINGLE 16
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58760 EHALLTP3 115 0.8810 0.9841 58762 ELLSWTH3 115 0.8838 0.9910
 58793 SMITH-C3 115 0.9472 0.9897 58798 WALDO 3 115 0.8938 0.9800
 58801 RUSSELL3 115 0.8833 0.9824 58808 ELLSWTH134.5 0.9231 1.0404
 58834 WALDO 134.5 0.9289 1.0299

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 24
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9390 0.9674 58787 PRATT 3 115 0.9166 0.9438
 58797 SUNCITY3 115 0.9462 0.9772

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 25
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0784 1.0379
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9324 0.9674 58787 PRATT 3 115 0.9144 0.9438
 58797 SUNCITY3 115 0.9331 0.9772


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X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58778 [MULGREN3115.00] CKT 1 ----- CONTINGENCY SINGLE 28
                                     *** NONE ***
                                     X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58766 GBENDTP3 115 0.9310 0.9948 58787 PRATT 3 115 0.9190 0.9438
                                                58792 SEWARD 3 115 0.9307 0.9756 58796 ST-JOHN3 115 0.9231 0.9565

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58792 [SEWARD 3115.00] CKT 1 ----- CONTINGENCY SINGLE 29
                                     *** NONE ***
                                     X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9180 0.9438 58792 SEWARD 3 115 0.9291 0.9756
                                                58796 ST-JOHN3 115 0.9219 0.9565

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58768 [HARPER 4138.00] TO BUS 58775 [MILANTP4138.00] CKT 1 ----- CONTINGENCY SINGLE 33
                                     *** NONE ***
                                     X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58768 HARPER 4 138 0.9125 0.9943 58773 MED-LDG3 115 0.9301 0.9674
                                                58774 MED-LDG4 138 0.9285 0.9844 58787 PRATT 3 115 0.9206 0.9438
                                                58797 SUNCITY3 115 0.9499 0.9772 58813 HARPER 134.5 0.9414 1.0398

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58774 [MED-LDG4138.00] CKT 1 ----- CONTINGENCY SINGLE 44
                                     *** NONE ***
                                     X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58813 HARPER 134.5 1.0645 1.0398

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
                                     *** NONE ***
                                     X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0772 1.0372 58833 SUNCITY134.5 1.0674 1.0364
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.8982 0.9438 58796 ST-JOHN3 115 0.9336 0.9565

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
                                     *** NONE ***
                                     X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0859 1.0379 58833 SUNCITY134.5 1.1080 1.0364
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9310 0.9674 58787 PRATT 3 115 0.9141 0.9438

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 58795 [SPEARVL6230.00] CKT 1 ----- CONTINGENCY SINGLE 54
                                     *** NONE ***
                                     X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9465 0.9823

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X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58787 [PRATT 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 66
                                                    *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9434 0.9674 58787 PRATT 3 115 0.9020 0.9438

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58792 [SEWARD 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 72
                                                    *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9424 0.9674 58787 PRATT 3 115 0.9004 0.9438
                                                58796 ST-JOHN3 115 0.8989 0.9565

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 56601 [HEIZER 3115.00] CKT 1 ----- CONTINGENCY SINGLE 88
                                                    *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9222 0.9823 58783 NESS-CT3 115 0.9427 0.9884

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58786 [PLAINVL3115.00] TO BUS 56551 [SALINE 3115.00] CKT 1 ----- CONTINGENCY SINGLE 90
                                                    *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58785 PHLBURG3 115 0.9267 0.9837 58786 PLAINVL3 115 0.9216 0.9904

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58795 [SPEARVL6230.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SINGLE 92
                                                    *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9446 0.9823

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 56469 [SPERVIL7345.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SPP-17
OPEN LINE FROM BUS 56470 [SPERXFR6287.00] TO BUS 58795 [SPEARVL6230.00] CKT 1
OPEN LINE FROM BUS 56468 [SPERTER113.800] TO BUS 56470 [SPERXFR6287.00] CKT 1
                                                    *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9464 0.9823

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4. 2000 WINTER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 10:55
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	131.8	365.3	0.0	0.0	0.0	-249.0	15.5	-249.0
WEPL	10.6	123.6	-147.0	0.0	122.6	60.3	96.3	
TOTALS	131.8	365.3	0.0	0.0	0.0	-249.0	15.5	-249.0
	10.6	123.6	-147.0	0.0	122.6	60.3	96.3	

B. INTER-AREA TRANSFER DATA

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	531 [MIDW]	1	0.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	534 [SUNC]	3	0.0		
539 [WEPL]	536 [WERE]	1	-165.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-249.0	-249.0

C. GENERATOR UNIT DATA

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0.0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000		
58753	CIM-PLT113.8	-2	2	0	0.0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000		
58755	CLIFTON113.8	-2	1	0	0.0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000		
58770	JUD-LRG113.8	2	4	1	131.8	10.6	0.0	98.0	-45.0	143.0	30.0	1	1.000		
58777	MULGREN113.8	-2	3	0	0.0	0.0	0.0	34.0	-16.0	93.0	30.0	1	1.000		

D. TRANSFORMER DATA

MON, APR 03 2000 11:07

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA
 2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0375	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	0.9812	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	0.9937	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0688	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0313	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0125	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0063	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0000	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	0.9937	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0375	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0125	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9750	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0313	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0688	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0375	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0063	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0313	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0750	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0250	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0438	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0438	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0250	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0188	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0375	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0125	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0438	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0812	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0688	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0063	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0313	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0063	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0562	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0500	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.1000	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0875	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0500	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:08
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100% OF RATING SET A:

X-----FROM BUS-----X	X-----TO BUS-----X	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:21
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X----- BUS -----X	AREA V(PU)	V(KV)	X----- BUS -----X	AREA V(PU)	V(KV)
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* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X----- BUS -----X	AREA V(PU)	V(KV)	X----- BUS -----X	AREA V(PU)	V(KV)
-------------------	------------	-------	-------------------	------------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

DISTRIBUTION FACTOR FILE: Dfax00WP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58752 [CMRIVTP3115.00] TO BUS 58759 [CUDAHY 3115.00] CKT 1 ----- CONTINGENCY SINGLE 3
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58806 CUDAHY 134.5 1.0789 1.0483
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9255 0.9699 58753 CIM-PLT113.8 0.9148 0.9598
 58754 CIM-PLT3 115 0.9264 0.9678 58772 E-LIBER3 115 0.9254 0.9666
 58782 NLIBTAP3 115 0.9243 0.9657 58790 S-LIBER3 115 0.9246 0.9659
 58791 SATANTA3 115 0.9438 0.9720 58800 W-LIBER3 115 0.9204 0.9620
 58837 NLIB 3 115 0.9227 0.9642

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58759 [CUDAHY 3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 13
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9244 0.9699 58753 CIM-PLT113.8 0.9136 0.9598
 58754 CIM-PLT3 115 0.9254 0.9678 58759 CUDAHY 3 115 0.9234 0.9891
 58772 E-LIBER3 115 0.9243 0.9666 58782 NLIBTAP3 115 0.9232 0.9657
 58790 S-LIBER3 115 0.9235 0.9659 58791 SATANTA3 115 0.9427 0.9720
 58800 W-LIBER3 115 0.9193 0.9620 58837 NLIB 3 115 0.9216 0.9642

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0669 1.0438
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9419 0.9876

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58833 SUNCITY134.5 1.0722 1.0431

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2000 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58778 [MULGREN3115.00] TO BUS 58779 [MULGREN6230.00] CKT 1 ----- CONTINGENCY SINGLE 50
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58760 EHALLTP3 115 0.9338 1.0072 58761 E-GBEND3 115 0.9172 1.0057
 58762 ELLSWTH3 115 0.9371 1.0121 58766 GBENDTP3 115 0.9285 1.0052
 58777 MULGREN113.8 0.9226 1.0094 58778 MULGREN3 115 0.9226 1.0094
 58781 N-GBEND3 115 0.9199 1.0075 58784 OTISSUB3 115 0.9197 1.0077
 58789 S-GBEND3 115 0.9166 1.0053 58792 SEWARD 3 115 0.9404 0.9967
 58796 ST-JOHN3 115 0.9469 0.9897 58798 WALDO 3 115 0.9465 1.0086
 58801 RUSSELL3 115 0.9364 1.0072 58807 E-GBEND134.5 0.9434 1.0391
 58821 N-GBEND134.5 0.9455 1.0399 58823 OTISSUB134.5 0.9337 1.0400
 58828 S-GBEND134.5 0.9460 1.0429

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 58795 [SPEARVL6230.00] CKT 1 ----- CONTINGENCY SINGLE 54
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58751 ALEXNDR3 115 0.9332 1.0039 58760 EHALLTP3 115 0.9468 1.0072
 58761 E-GBEND3 115 0.9387 1.0057 58766 GBENDTP3 115 0.9410 1.0052
 58777 MULGREN113.8 0.9436 1.0094 58778 MULGREN3 115 0.9436 1.0094
 58779 MULGREN6 230 0.9466 1.0076 58781 N-GBEND3 115 0.9411 1.0075
 58784 OTISSUB3 115 0.9411 1.0077 58787 PRATT 3 115 0.9393 0.9876
 58789 S-GBEND3 115 0.9381 1.0053 58792 SEWARD 3 115 0.9356 0.9967
 58796 ST-JOHN3 115 0.9340 0.9897 58801 RUSSELL3 115 0.9480 1.0072

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58816 E-LIBER134.5 1.0693 1.0457 58829 S-LIBER134.5 1.0678 1.0438

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 56455 [NCIMARN3115.00] CKT 1 ----- CONTINGENCY SINGLE 86
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58830 SATANTA134.5 1.0688 1.0392

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9237 0.9699 58753 CIM-PLT113.8 0.9064 0.9598
 58754 CIM-PLT3 115 0.9185 0.9678 58772 E-LIBER3 115 0.9204 0.9666
 58782 NLIBTAP3 115 0.9188 0.9657 58790 S-LIBER3 115 0.9196 0.9659
 58800 W-LIBER3 115 0.9149 0.9620 58837 NLIB 3 115 0.9172 0.9642

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58795 [SPEARVL6230.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SINGLE 92
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58752 CMRIVTP3 115 0.9455 0.9699 58753 CIM-PLT113.8 0.9338 0.9598
 58754 CIM-PLT3 115 0.9438 0.9678 58772 E-LIBER3 115 0.9433 0.9666
 58782 NLIBTAP3 115 0.9422 0.9657 58790 S-LIBER3 115 0.9426 0.9659
 58791 SATANTA3 115 0.9474 0.9720 58800 W-LIBER3 115 0.9384 0.9620
 58837 NLIB 3 115 0.9407 0.9642

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 56469 [SPERVIL7345.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SPP-17
 OPEN LINE FROM BUS 56470 [SPERXFR6287.00] TO BUS 58795 [SPEARVL6230.00] CKT 1
 OPEN LINE FROM BUS 56468 [SPERTER113.800] TO BUS 56470 [SPERXFR6287.00] CKT 1
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58752 CMRIVTP3 115 0.9458 0.9699 58753 CIM-PLT113.8 0.9342 0.9598
 58754 CIM-PLT3 115 0.9442 0.9678 58772 E-LIBER3 115 0.9436 0.9666
 58782 NLIBTAP3 115 0.9425 0.9657 58790 S-LIBER3 115 0.9429 0.9659
 58791 SATANTA3 115 0.9478 0.9720 58800 W-LIBER3 115 0.9387 0.9620
 58837 NLIB 3 115 0.9410 0.9642

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 51534 [TUCO 7345.00] TO BUS 54119 [O.K.U.-7345.00] CKT 1 ----- CONTINGENCY SPP-22
 OPEN LINE FROM BUS 51533 [TUCO 6230.00] TO BUS 51534 [TUCO 7345.00] CKT 1
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58752 CMRIVTP3 115 0.9249 0.9699 58753 CIM-PLT113.8 0.9111 0.9598
 58754 CIM-PLT3 115 0.9231 0.9678 58772 E-LIBER3 115 0.9120 0.9666
 58782 NLIBTAP3 115 0.9127 0.9657 58790 S-LIBER3 115 0.9112 0.9659
 58791 SATANTA3 115 0.9494 0.9720 58800 W-LIBER3 115 0.9087 0.9620
 58837 NLIB 3 115 0.9111 0.9642

X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 51534 [TUCO 7345.00] TO BUS 54119 [O.K.U.-7345.00] CKT 1 ----- CONTINGENCY SPP-28
 OPEN LINE FROM BUS 51533 [TUCO 6230.00] TO BUS 51534 [TUCO 7345.00] CKT 1
 OPEN LINE FROM BUS 54119 [O.K.U.-7345.00] TO BUS 54131 [L.E.S.-7345.00] CKT 1
 OPEN LINE FROM BUS 54119 [O.K.U.-7345.00] TO BUS 59991 [OKLAUN 7345.00] CKT 1
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58752 CMRIVTP3 115 0.9245 0.9699 58753 CIM-PLT113.8 0.9107 0.9598
 58754 CIM-PLT3 115 0.9227 0.9678 58772 E-LIBER3 115 0.9116 0.9666
 58782 NLIBTAP3 115 0.9123 0.9657 58790 S-LIBER3 115 0.9107 0.9659
 58791 SATANTA3 115 0.9492 0.9720 58800 W-LIBER3 115 0.9083 0.9620
 58837 NLIB 3 115 0.9106 0.9642

5. 2001 APRIL MINIMUM

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:34
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2001 APRIL MINIMUM - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	38.9	138.8	0.0	0.0	0.0	-102.9	3.0	-103.0
WEPL	0.0	51.4	-14.8	0.0	126.6	72.6	17.3	
TOTALS	38.9	138.8	0.0	0.0	0.0	-102.9	3.0	-103.0
	0.0	51.4	-14.8	0.0	126.6	72.6	17.3	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:35
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2001 APRIL MINIMUM - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-39.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-103.0	-103.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:36
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2001 APRIL MINIMUM - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	-2	2	0	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	-2	1	0	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	-2	4	1	38.9	0.0	0.0	0.0	0.0	143.0	30.0	1	1.000
58777	MULGREN113.8	-2	3	0	0	0.0	0.0	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:37
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA
 2001 APRIL MINIMUM - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0000	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	1.0000	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0000	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0375	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0125	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0063	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0063	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0125	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0000	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0313	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0187	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	1.0000	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0187	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0562	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0125	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0125	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0063	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0313	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0125	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0000	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0250	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0187	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0313	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0187	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0187	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0188	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0562	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0562	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0063	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0125	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0187	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0125	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0313	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0562	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0562	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0250	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:39
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 APRIL MINIMUM - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

FROM BUS	TO BUS	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:41
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 APRIL MINIMUM - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E SUN, APR 02 2000 20:41

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2001 APRIL MINIMUM - UTILICORP BASE CASE WITH WERE CHANGES

*** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax01AP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58752 [CMRIVTP3115.00] TO BUS 58759 [CUDAHY 3115.00] CKT 1 ----- CONTINGENCY SINGLE 3
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58806 CUDAHY 134.5 1.0705 1.0471

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58786 [PLAINVL3115.00] TO BUS 56551 [SALINE 3115.00] CKT 1 ----- CONTINGENCY SINGLE 90
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58824 PHLBURG134.5 1.0627 1.0361 58825 PLAINVL134.5 1.0775 1.0360

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 56446 [HLCXFMR6230.00] TO BUS 56449 [HOLCOMB7345.00] CKT 1 ----- CONTINGENCY SPP-16
 OPEN LINE FROM BUS 56446 [HLCXFMR6230.00] TO BUS 56448 [HOLCOMB3115.00] CKT 1
 OPEN LINE FROM BUS 56446 [HLCXFMR6230.00] TO BUS 56450 [HOLCTER113.800] CKT 1
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58795 SPEARVL6 230 1.0540 1.0302

6. 2001 FALL PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:47
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	114.4	352.1	0.0	0.0	0.0	-250.1	12.4	-250.0
WEPL	-2.4	119.2	-143.9	0.0	122.7	67.9	76.9	
TOTALS	114.4	352.1	0.0	0.0	0.0	-250.1	12.4	-250.0
	-2.4	119.2	-143.9	0.0	122.7	67.9	76.9	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:49
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-166.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-250.0	-250.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:49
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT	113.8	-2	1	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT	113.8	-2	2	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON	113.8	-2	1	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG	113.8	2	4	1	114.4	-2.4	98.0	-45.0	143.0	30.0	1	1.000
58777	MULGREN	113.8	-2	3	0	0.0	0.0	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL											TRANSFORMER DATA				
2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES															
FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0250	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	0.9937	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0063	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0500	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0250	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0125	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0438	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0313	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0375	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0250	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0125	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9875	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0250	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0187	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0375	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0063	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0250	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0313	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0187	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0313	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0250	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0250	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0313	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0250	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0313	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0313	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0562	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0562	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0250	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0250	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0000	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0625	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0313	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0812	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0625	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0375	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:54
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

X-----	FROM BUS-----X	X-----	TO BUS-----X	CURRENT(MVA)							
BUS	NAME	BSKV	AREA	BUS	NAME	BSKV	AREA	CKT	LOADING	RATING	PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 11:55
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X-----	BUS	-----X	AREA	V(PU)	V(KV)	X-----	BUS	-----X	AREA	V(PU)	V(KV)
--------	-----	--------	------	-------	-------	--------	-----	--------	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X-----	BUS	-----X	AREA	V(PU)	V(KV)	X-----	BUS	-----X	AREA	V(PU)	V(KV)
--------	-----	--------	------	-------	-------	--------	-----	--------	------	-------	-------

* NONE *

ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES
*** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
*** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax01FA.sgf
SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
MONITORED ELEMENT FILE: opsmon539.txt
CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58752 [CMRIVTP3115.00] TO BUS 58759 [CUDAHY 3115.00] CKT 1 ----- CONTINGENCY SINGLE 3
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58806 CUDAHY 134.5 1.0670 1.0449
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9456 0.9803

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58756 [CLIFTON3115.00] TO BUS 58765 [GRNLEAF3115.00] CKT 1 ----- CONTINGENCY SINGLE 7
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58804 CLIFSUB134.5 1.0559 1.0329

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58759 [CUDAHY 3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 13
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9448 0.9803 58800 W-LIBER3 115 0.9497 0.9827

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0692 1.0464

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9489 0.9896

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58833 SUNCITY134.5 1.0619 1.0392

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2001 FALL PEAK - UTILICORP BASE CASE WITH WERE CHANGES

*** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58778 [MULGREN3115.00] TO BUS 58779 [MULGREN6230.00] CKT 1 ----- CONTINGENCY SINGLE 50
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58760 EHALLTP3 115 0.9345 1.0093 58761 E-GBEND3 115 0.9212 1.0123
 58762 ELLSWTH3 115 0.9382 1.0146 58766 GBENDTP3 115 0.9316 1.0102
 58777 MULGREN113.8 0.9260 1.0155 58778 MULGREN3 115 0.9260 1.0155
 58781 N-GBEND3 115 0.9236 1.0139 58784 OTISSUB3 115 0.9240 1.0144
 58789 S-GBEND3 115 0.9206 1.0119 58792 SEWARD 3 115 0.9428 0.9994
 58796 ST-JOHN3 115 0.9487 0.9908 58798 WALDO 3 115 0.9446 1.0073
 58801 RUSSELL3 115 0.9365 1.0085 58807 E-GBEND134.5 0.9428 1.0405
 58819 MULLERG134.5 0.9485 1.0403 58821 N-GBEND134.5 0.9445 1.0409
 58823 OTISSUB134.5 0.9396 1.0373 58828 S-GBEND134.5 0.9399 1.0381

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58816 E-LIBER134.5 1.0644 1.0433 58829 S-LIBER134.5 1.0640 1.0425

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 56455 [NCIMARN3115.00] CKT 1 ----- CONTINGENCY SINGLE 87
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58753 CIM-PLT113.8 0.9417 0.9803 58800 W-LIBER3 115 0.9486 0.9827

7. 2001 SPRING PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 14:55
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2001 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	82.7	320.1	0.0	0.0	0.0	-250.0	12.5	-250.0
WEPL	7.1	108.8	-146.8	0.0	120.9	92.1	73.9	
TOTALS	82.7	320.1	0.0	0.0	0.0	-250.0	12.5	-250.0
	7.1	108.8	-146.8	0.0	120.9	92.1	73.9	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 14:56
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2001 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X--TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-166.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-250.0	-250.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 14:56
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2001 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	-2	2	0	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	-2	1	0	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1	82.7	7.1	98.0	-45.0	143.0	30.0	30.0	1	1.000
58777	MULGREN113.8	-2	3	0	0	0.0	0.0	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 14:58

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA

2001 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0375	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	0.9813	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	0.9937	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0562	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0375	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0125	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0063	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	0.9937	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	0.9938	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0250	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0125	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9750	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0313	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0500	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0313	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0063	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0375	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0625	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0313	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0375	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0375	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0250	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0250	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0375	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0438	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0625	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0625	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0063	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0313	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0000	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0563	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0313	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0875	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0688	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0438	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 14:59
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

FROM BUS	TO BUS	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:01
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2001 SPRING PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax01SR.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58752 [CMRIVTP3115.00] TO BUS 58759 [CUDAHY 3115.00] CKT 1 ----- CONTINGENCY SINGLE 3
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58806 CUDAHY 134.5 1.0688 1.0454

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9469 0.9812 58753 CIM-PLT113.8 0.9376 0.9723
 58754 CIM-PLT3 115 0.9473 0.9792 58772 E-LIBER3 115 0.9476 0.9794
 58782 NLIBTAP3 115 0.9466 0.9785 58790 S-LIBER3 115 0.9471 0.9790
 58800 W-LIBER3 115 0.9435 0.9755 58837 NLIB 3 115 0.9454 0.9774

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58759 [CUDAHY 3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 13
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9470 0.9812 58753 CIM-PLT113.8 0.9377 0.9723
 58754 CIM-PLT3 115 0.9474 0.9792 58759 CUDAHY 3 115 0.9464 0.9966
 58772 E-LIBER3 115 0.9477 0.9794 58782 NLIBTAP3 115 0.9467 0.9785
 58790 S-LIBER3 115 0.9472 0.9790 58800 W-LIBER3 115 0.9436 0.9755
 58837 NLIB 3 115 0.9455 0.9774

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0656 1.0352 58833 SUNCITY134.5 1.0637 1.0386

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9434 0.9788

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0616 1.0394 58833 SUNCITY134.5 1.0725 1.0386

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X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58778 [MULGREN3115.00] TO BUS 58779 [MULGREN6230.00] CKT 1 ----- CONTINGENCY SINGLE 50
                                          *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
                                AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58761 E-GBEND3 115 0.9491 0.9965 58789 S-GBEND3 115 0.9487 0.9962

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58792 [SEWARD 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 72
                                          *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
                                AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58796 ST-JOHN3 115 0.9401 0.9739

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 56455 [NCIMARN3115.00] CKT 1 ----- CONTINGENCY SINGLE 86
                                          *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
                                AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58830 SATANTA134.5 1.0681 1.0447

                                AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9488 0.9812 58753 CIM-PLT113.8 0.9346 0.9723
                                58754 CIM-PLT3 115 0.9444 0.9792 58772 E-LIBER3 115 0.9469 0.9794
                                58782 NLIBTAP3 115 0.9455 0.9785 58790 S-LIBER3 115 0.9463 0.9790
                                58800 W-LIBER3 115 0.9424 0.9755 58837 NLIB 3 115 0.9443 0.9774

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58786 [PLAINVL3115.00] TO BUS 56551 [SALINE 3115.00] CKT 1 ----- CONTINGENCY SINGLE 90
                                          *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
                                AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58824 PHLBURG134.5 1.0592 1.0389 58825 PLAINVL134.5 1.0760 1.0396

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58795 [SPEARVL6230.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SINGLE 92
                                          *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
                                AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9493 0.9723

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
      X---- MULTI-SECTION LINE GROUPINGS ----X FROM      NAME      TO      NAME      CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 56469 [SPERVIL7345.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SPP-17
OPEN LINE FROM BUS 56470 [SPERXFR6287.00] TO BUS 58795 [SPEARVL6230.00] CKT 1
OPEN LINE FROM BUS 56468 [SPERTER113.800] TO BUS 56470 [SPERXFR6287.00] CKT 1

                                          *** NONE ***

                                X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
                                AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9496 0.9723

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8. 2001 SUMMER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 13:48
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	227.5	533.5	0.0	0.0	0.0	-324.1	18.0	-324.0
WEPL	39.0	178.3	-208.1	0.0	120.6	75.1	114.3	
TOTALS	227.5	533.5	0.0	0.0	0.0	-324.1	18.0	-324.0
	39.0	178.3	-208.1	0.0	120.6	75.1	114.3	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 13:49
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X--TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	531 [MIDW]	1	0.0		
539 [WEPL]	534 [SUNC]	1	0.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	534 [SUNC]	3	-180.0		
539 [WEPL]	536 [WERE]	1	-110.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-324.0	-324.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 13:52
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	2	1	1		30.0	13.4	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	2	2	0		0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	2	1	1		30.0	-1.9	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1		112.5	15.6	98.0	-45.0	143.0	30.0	1	1.000
58777	MULGREN113.8	2	3	1		55.0	11.9	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 13:52

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA

2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0688	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	1.0000	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0063	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0625	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0313	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0313	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0187	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0000	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0187	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0313	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0500	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	1.0125	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0375	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0313	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0750	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0063	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0375	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0688	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0313	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0750	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0500	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0500	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0688	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0438	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0750	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0500	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0750	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0750	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0500	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0375	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0438	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.1000	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0688	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0750	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0750	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0625	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 13:53
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

X-----	FROM BUS-----X	X-----	TO BUS-----X	CURRENT(MVA)
BUS	NAME BSKV AREA	BUS	NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 14:42
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X-----	BUS	-----X	AREA	V(PU)	V(KV)	X-----	BUS	-----X	AREA	V(PU)	V(KV)
--------	-----	--------	------	-------	-------	--------	-----	--------	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X-----	BUS	-----X	AREA	V(PU)	V(KV)	X-----	BUS	-----X	AREA	V(PU)	V(KV)
--------	-----	--------	------	-------	-------	--------	-----	--------	------	-------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

DISTRIBUTION FACTOR FILE: Dfax01SP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58758 [CONCORD6230.00] CKT 1 ----- CONTINGENCY SINGLE 9
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58785 PHLBURG3 115 0.9467 0.9856 58793 SMITH-C3 115 0.9430 0.9938
 58798 WALDO 3 115 0.9441 0.9842

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58760 [EHALLTP3115.00] TO BUS 58778 [MULGREN3115.00] CKT 1 ----- CONTINGENCY SINGLE 16
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58760 EHALLTP3 115 0.8780 0.9878 58762 ELLSWTH3 115 0.8802 0.9945
 58793 SMITH-C3 115 0.9479 0.9938 58798 WALDO 3 115 0.8916 0.9842
 58801 RUSSELL3 115 0.8805 0.9863 58808 ELLSWTH134.5 0.9185 1.0437
 58834 WALDO 134.5 0.9245 1.0332

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 24
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9333 0.9534

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 25
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0762 1.0482

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9478 0.9794 58787 PRATT 3 115 0.9301 0.9534
 58797 SUNCITY3 115 0.9485 0.9895

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58778 [MULGREN3115.00] CKT 1 ----- CONTINGENCY SINGLE 28
 *** NONE ***

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58766 GBENDTP3 115 0.9390 0.9976 58787 PRATT 3 115 0.9296 0.9534
 58792 SEWARD 3 115 0.9387 0.9801 58796 ST-JOHN3 115 0.9324 0.9634

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58792 [SEWARD 3115.00] CKT 1 ----- CONTINGENCY SINGLE 29
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58787 PRATT 3 115 0.9288 0.9534 58792 SEWARD 3 115 0.9372 0.9801
 58796 ST-JOHN3 115 0.9314 0.9634

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58768 [HARPER 4138.00] TO BUS 58775 [MILANTP4138.00] CKT 1 ----- CONTINGENCY SINGLE 33
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58768 HARPER 4 138 0.9061 0.9999 58773 MED-LDG3 115 0.9249 0.9794
 58774 MED-LDG4 138 0.9229 0.9895 58787 PRATT 3 115 0.9165 0.9534
 58797 SUNCITY3 115 0.9455 0.9895 58813 HARPER 134.5 0.9322 1.0448

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58774 [MED-LDG4138.00] CKT 1 ----- CONTINGENCY SINGLE 44
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58813 HARPER 134.5 1.0655 1.0448

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58813 HARPER 134.5 1.0660 1.0448 58817 MED-LDG134.5 1.0844 1.0438
 58833 SUNCITY134.5 1.0825 1.0495

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.8974 0.9534 58796 ST-JOHN3 115 0.9338 0.9634

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58810 GRNBURG134.5 1.0834 1.0482 58833 SUNCITY134.5 1.1041 1.0495
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9461 0.9794 58787 PRATT 3 115 0.9292 0.9534

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

*** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
*** ACCC VOLTAGE REPORT ***

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 58795 [SPEARVL6230.00] CKT 1 ----- CONTINGENCY SINGLE 54
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9499 0.9838

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58782 [NLBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58816 E-LIBER134.5 1.0690 1.0475 58829 S-LIBER134.5 1.0670 1.0448

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58787 [PRATT 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 67
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9139 0.9534

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58792 [SEWARD 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 73
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9137 0.9534 58796 ST-JOHN3 115 0.9120 0.9634

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 56601 [HEIZER 3115.00] CKT 1 ----- CONTINGENCY SINGLE 89
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9329 0.9838

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58786 [PLAINVL3115.00] TO BUS 56551 [SALINE 3115.00] CKT 1 ----- CONTINGENCY SINGLE 91
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58785 PHLBURG3 115 0.9323 0.9856 58786 PLAINVL3 115 0.9269 0.9916

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

*** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
*** ACCC VOLTAGE REPORT ***

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58795 [SPEARVL6230.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SINGLE 93
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9482 0.9838 58791 SATANTA3 115 0.9499 0.9748

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 56446 [HLCXFMR6230.00] TO BUS 56449 [HOLCOMB7345.00] CKT 1 ----- CONTINGENCY SPP-16
OPEN LINE FROM BUS 56446 [HLCXFMR6230.00] TO BUS 56448 [HOLCOMB3115.00] CKT 1
OPEN LINE FROM BUS 56446 [HLCXFMR6230.00] TO BUS 56450 [HOLCTER113.800] CKT 1
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58791 SATANTA3 115 0.9492 0.9748

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 56469 [SPERVIL7345.00] TO BUS 56470 [SPERXFR6287.00] CKT 1 ----- CONTINGENCY SPP-17
OPEN LINE FROM BUS 56470 [SPERXFR6287.00] TO BUS 58795 [SPEARVL6230.00] CKT 1
OPEN LINE FROM BUS 56468 [SPERTER113.800] TO BUS 56470 [SPERXFR6287.00] CKT 1
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9455 0.9838 58791 SATANTA3 115 0.9496 0.9748

9. 2001 WINTER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:06
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	139.5	373.4	0.0	0.0	0.0	-249.1	15.1	-249.0
WEPL	6.7	126.2	-146.9	0.0	122.6	55.3	94.7	
TOTALS	139.5	373.4	0.0	0.0	0.0	-249.1	15.1	-249.0
	6.7	126.2	-146.9	0.0	122.6	55.3	94.7	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:07
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-165.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-249.0	-249.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:07
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000		
58753	CIM-PLT113.8	-2	2	0	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000		
58755	CLIFTON113.8	-2	1	0	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000		
58770	JUD-LRG113.8	2	4	1	1	139.5	6.7	98.0	-45.0	143.0	30.0	1	1.000		
58777	MULGREN113.8	-2	3	0	0	0.0	0.0	34.0	-16.0	93.0	30.0	1	1.000		

D. TRANSFORMER DATA

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL										TRANSFORMER DATA					
2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES															
FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0313	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	0.9812	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0000	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0625	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0313	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0125	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0063	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0000	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	0.9937	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0375	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0187	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9750	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0375	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0688	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0313	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0063	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0250	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0688	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0187	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0313	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0313	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0313	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0313	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0250	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0313	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0125	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0375	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0812	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0688	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0125	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0313	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0063	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0562	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0438	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.1000	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0875	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0500	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:09
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

X-----	FROM BUS-----X	X-----	TO BUS-----X	CURRENT(MVA)					
BUS	NAME	BSKV AREA	BUS	NAME	BSKV AREA	CKT	LOADING	RATING	PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:10
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X-----	BUS	-----X	AREA	V(PU)	V(KV)	X-----	BUS	-----X	AREA	V(PU)	V(KV)
--------	-----	--------	------	-------	-------	--------	-----	--------	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X-----	BUS	-----X	AREA	V(PU)	V(KV)	X-----	BUS	-----X	AREA	V(PU)	V(KV)
--------	-----	--------	------	-------	-------	--------	-----	--------	------	-------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

DISTRIBUTION FACTOR FILE: Dfax01WP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58752 [CMRIVTP3115.00] TO BUS 58759 [CUDAHY 3115.00] CKT 1 ----- CONTINGENCY SINGLE 3
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58806 CUDAHY 134.5 1.0752 1.0428
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9229 0.9697 58753 CIM-PLT113.8 0.9120 0.9595
 58754 CIM-PLT3 115 0.9239 0.9675 58772 E-LIBER3 115 0.9226 0.9662
 58782 NLIBTAP3 115 0.9215 0.9653 58790 S-LIBER3 115 0.9218 0.9655
 58791 SATANTA3 115 0.9422 0.9719 58800 W-LIBER3 115 0.9175 0.9615
 58837 NLIB 3 115 0.9199 0.9638

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58759 [CUDAHY 3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 13
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9216 0.9697 58753 CIM-PLT113.8 0.9106 0.9595
 58754 CIM-PLT3 115 0.9226 0.9675 58759 CUDAHY 3 115 0.9205 0.9899
 58772 E-LIBER3 115 0.9213 0.9662 58782 NLIBTAP3 115 0.9202 0.9653
 58790 S-LIBER3 115 0.9205 0.9655 58791 SATANTA3 115 0.9410 0.9719
 58800 W-LIBER3 115 0.9162 0.9615 58837 NLIB 3 115 0.9186 0.9638

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0624 1.0376 58833 SUNCITY134.5 1.0654 1.0444
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9382 0.9870

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0674 1.0470 58833 SUNCITY134.5 1.0742 1.0444

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58778 [MULGREN3115.00] TO BUS 58779 [MULGREN6230.00] CKT 1 ----- CONTINGENCY SINGLE 50
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58760 EHALLTP3 115 0.9245 1.0069 58761 E-GBEND3 115 0.9078 1.0073
 58762 ELLSWTH3 115 0.9274 1.0116 58766 GBENDTP3 115 0.9203 1.0064
 58777 MULGREN113.8 0.9137 1.0112 58778 MULGREN3 115 0.9137 1.0112
 58781 N-GBEND3 115 0.9107 1.0092 58784 OTISSUB3 115 0.9112 1.0097
 58787 PRATT 3 115 0.9489 0.9870 58789 S-GBEND3 115 0.9072 1.0068
 58792 SEWARD 3 115 0.9334 0.9966 58796 ST-JOHN3 115 0.9408 0.9888
 58798 WALDO 3 115 0.9377 1.0072 58801 RUSSELL3 115 0.9272 1.0066
 58807 E-GBEND134.5 0.9326 1.0402 58808 ELLSWTH134.5 0.9459 1.0342
 58819 MULLERG134.5 0.9359 1.0359 58821 N-GBEND134.5 0.9290 1.0345
 58823 OTISSUB134.5 0.9292 1.0369 58828 S-GBEND134.5 0.9292 1.0374

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 58795 [SPEARVL6230.00] CKT 1 ----- CONTINGENCY SINGLE 54
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58751 ALEXNDR3 115 0.9415 1.0116 58760 EHALLTP3 115 0.9402 1.0069
 58761 E-GBEND3 115 0.9329 1.0073 58762 ELLSWTH3 115 0.9434 1.0116
 58766 GBENDTP3 115 0.9355 1.0064 58777 MULGREN113.8 0.9383 1.0112
 58778 MULGREN3 115 0.9383 1.0112 58779 MULGREN6 230 0.9423 1.0112
 58781 N-GBEND3 115 0.9356 1.0092 58784 OTISSUB3 115 0.9360 1.0097
 58786 PLAINVL3 115 0.9492 1.0020 58787 PRATT 3 115 0.9359 0.9870
 58789 S-GBEND3 115 0.9323 1.0068 58792 SEWARD 3 115 0.9297 0.9966
 58796 ST-JOHN3 115 0.9283 0.9888 58798 WALDO 3 115 0.9465 1.0072
 58801 RUSSELL3 115 0.9413 1.0066

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58816 E-LIBER134.5 1.0697 1.0449 58829 S-LIBER134.5 1.0679 1.0426

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58800 [W-LIBER3115.00] TO BUS 58836 [W-LIBER134.500] CKT 1 ----- CONTINGENCY SINGLE 82
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58838 NLIB 134.5 1.0675 1.0457

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2001 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

*** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58800 [W-LIBER3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 83
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58838 NLIB 134.5 1.0669 1.0457

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 56455 [NCIMARN3115.00] CKT 1 ----- CONTINGENCY SINGLE 87
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58830 SATANTA134.5 1.0670 1.0385

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9240 0.9697 58753 CIM-PLT113.8 0.9065 0.9595
 58754 CIM-PLT3 115 0.9187 0.9675 58772 E-LIBER3 115 0.9203 0.9662
 58782 NLIBTAP3 115 0.9187 0.9653 58790 S-LIBER3 115 0.9194 0.9655
 58800 W-LIBER3 115 0.9146 0.9615 58837 NLIB 3 115 0.9170 0.9638

9. 2004 SUMMER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:21
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	248.2	569.4	0.0	0.0	0.0	-339.0	17.8	-339.0
WEPL	45.6	190.1	-202.4	0.0	123.6	65.8	115.7	
TOTALS	248.2	569.4	0.0	0.0	0.0	-339.0	17.8	-339.0
	45.6	190.1	-202.4	0.0	123.6	65.8	115.7	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:23
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	534 [SUNC]	3	-140.0		
539 [WEPL]	536 [WERE]	1	-165.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-339.0	-339.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:23
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	2	1	1		40.0	12.9	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	2	2	0		0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	2	1	1		30.0	0.9	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1		123.2	17.7	98.0	-45.0	143.0	30.0	1	1.000
58777	MULGREN113.8	2	3	1		55.0	14.1	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:22
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA
 2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0562	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	1.0063	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0125	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0625	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0375	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0688	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0313	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0000	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0250	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0313	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0688	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	1.0250	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0438	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0313	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0812	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0187	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0375	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0688	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0375	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0688	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0562	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0562	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0812	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0500	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0875	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0500	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0812	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0625	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0625	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0313	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0500	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0875	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0750	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0812	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0812	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0688	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:25
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

FROM BUS	TO BUS	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT
* NONE *		

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:26
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

BUS	AREA	V(PU)	V(KV)	BUS	AREA	V(PU)	V(KV)
* NONE *							

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

BUS	AREA	V(PU)	V(KV)	BUS	AREA	V(PU)	V(KV)
58787	PRATT	3	115	539	0.9418	108.30	

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax04SP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 BASE CASE

*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9418 0.9418

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58758 [CONCORD6230.00] CKT 1 ----- CONTINGENCY SINGLE 9

*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58763 GLENELD3 115 0.9477 0.9963 58785 PHLBURG3 115 0.9418 0.9784
 58793 SMITH-C3 115 0.9407 0.9871

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 24

*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58764 GRNBURG3 115 0.9498 0.9963 58773 MED-LDG3 115 0.9370 0.9689
 58774 MED-LDG4 138 0.9436 0.9757 58787 PRATT 3 115 0.9180 0.9418
 58797 SUNCITY3 115 0.9433 0.9813

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 25

*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0748 1.0426

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9320 0.9689 58774 MED-LDG4 138 0.9414 0.9757
 58787 PRATT 3 115 0.9158 0.9418 58797 SUNCITY3 115 0.9324 0.9813

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58778 [MULGREN3115.00] CKT 1 ----- CONTINGENCY SINGLE 28

*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58766 GBENDTP3 115 0.9272 0.9939 58787 PRATT 3 115 0.9144 0.9418
 58792 SEWARD 3 115 0.9269 0.9739 58796 ST-JOHN3 115 0.9192 0.9541

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2004 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58792 [SEWARD 3115.00] CKT 1 ----- CONTINGENCY SINGLE 29
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58787 PRATT 3 115 0.9136 0.9418 58792 SEWARD 3 115 0.9254 0.9739
 58796 ST-JOHN3 115 0.9181 0.9541

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58768 [HARPER 4138.00] TO BUS 58774 [MED-LDG4138.00] CKT 1 ----- CONTINGENCY SINGLE 32
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58773 MED-LDG3 115 0.9447 0.9689 58774 MED-LDG4 138 0.9447 0.9757

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58768 [HARPER 4138.00] TO BUS 58775 [MILANTP4138.00] CKT 1 ----- CONTINGENCY SINGLE 33
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58768 HARPER 4 138 0.8792 0.9860 58773 MED-LDG3 115 0.9036 0.9689
 58774 MED-LDG4 138 0.9000 0.9757 58787 PRATT 3 115 0.8969 0.9418
 58796 ST-JOHN3 115 0.9297 0.9541 58797 SUNCITY3 115 0.9279 0.9813
 58813 HARPER 134.5 0.9089 1.0431

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58774 [MED-LDG4138.00] CKT 1 ----- CONTINGENCY SINGLE 44
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58813 HARPER 134.5 1.0647 1.0431
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9448 0.9689

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58810 GRNBURG134.5 1.0636 1.0426 58813 HARPER 134.5 1.0666 1.0431
 58817 MED-LDG134.5 1.0784 1.0359 58833 SUNCITY134.5 1.0790 1.0440

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.8821 0.9418 58796 ST-JOHN3 115 0.9224 0.9541


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X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0815 1.0426 58833 SUNCITY134.5 1.1065 1.0440

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9314 0.9689 58774 MED-LDG4 138 0.9414 0.9757
58787 PRATT 3 115 0.9157 0.9418

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58816 E-LIBER134.5 1.0645 1.0430 58829 S-LIBER134.5 1.0676 1.0451

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58784 [OTISSUB3115.00] TO BUS 58823 [OTISSUB134.500] CKT 1 ----- CONTINGENCY SINGLE 61
58784*OTISSUB3 115 58823 OTISSUB134.5 2 4.6 8.5 8.0 105.9

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58784 [OTISSUB3115.00] TO BUS 58823 [OTISSUB134.500] CKT 2 ----- CONTINGENCY SINGLE 62
58784*OTISSUB3 115 58823 OTISSUB134.5 1 3.7 8.7 8.0 108.9

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58787 [PRATT 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 68
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9377 0.9689 58774 MED-LDG4 138 0.9467 0.9757
58787 PRATT 3 115 0.8906 0.9418

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58792 [SEWARD 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 74
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9418 0.9689 58787 PRATT 3 115 0.8967 0.9418
58796 ST-JOHN3 115 0.8966 0.9541

X----- C O N T I N G E N C Y   E V E N T S -----X X-- O V E R L O A D E D   L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 56601 [HEIZER 3115.00] CKT 1 ----- CONTINGENCY SINGLE 90
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9326 0.9866

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11. 2004 WINTER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:46
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2004 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	163.2	398.6	0.0	0.0	0.0	-248.9	13.5	-249.0
WEPL	13.2	134.6	-142.2	0.0	126.0	66.2	80.6	
TOTALS	163.2	398.6	0.0	0.0	0.0	-248.9	13.5	-249.0
	13.2	134.6	-142.2	0.0	126.0	66.2	80.6	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:47
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2004 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-165.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-249.0	-249.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:47
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2004 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	-2	2	0	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	-2	1	0	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1	123.2	7.8	98.0	-45.0	143.0	30.0	30.0	1	1.000
58777	MULGREN113.8	2	3	1	40.0	5.4	34.0	-16.0	93.0	30.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:48

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA

2004 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0250	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	1.0000	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0125	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0562	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0250	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0250	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0250	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	0.9937	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0438	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0375	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0187	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9937	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0313	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0562	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0375	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0000	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0250	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0750	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0250	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0313	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0313	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0313	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0375	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0250	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0375	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0125	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0375	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0688	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0500	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0250	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0250	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0063	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0500	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0500	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0938	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0688	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0500	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:49
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2004 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]

BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

FROM BUS	NAME	BSKV	AREA	TO BUS	NAME	BSKV	AREA	CKT	LOADING	RATING	PERCENT
----------	------	------	------	--------	------	------	------	-----	---------	--------	---------

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 15:50
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2004 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

BUS	AREA	V(PU)	V(KV)	BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------	-----	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

BUS	AREA	V(PU)	V(KV)	BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------	-----	------	-------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2004 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax04WP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58756 [CLIFTON3115.00] TO BUS 58765 [GRNLEAF3115.00] CKT 1 ----- CONTINGENCY SINGLE 7
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58804 CLIFSUB134.5 1.0622 1.0400

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0703 1.0406 58833 SUNCITY134.5 1.0667 1.0424

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9341 0.9822

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58833 SUNCITY134.5 1.0706 1.0424

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58816 E-LIBER134.5 1.0705 1.0484 58829 S-LIBER134.5 1.0685 1.0459

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 56455 [NCIMARN3115.00] CKT 1 ----- CONTINGENCY SINGLE 88
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9113 0.9856 58753 CIM-PLT113.8 0.8907 0.9771
 58754 CIM-PLT3 115 0.9056 0.9847 58759 CUDAHY 3 115 0.9489 0.9982
 58772 E-LIBER3 115 0.9075 0.9822 58782 NLIBTAP3 115 0.9056 0.9814
 58790 S-LIBER3 115 0.9065 0.9814 58800 W-LIBER3 115 0.9011 0.9773
 58837 NLIB 3 115 0.9037 0.9797

12. 2006 SUMMER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:00
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	288.9	595.6	0.0	0.0	0.0	-324.9	18.3	-325.0
WEPL	43.1	198.7	-207.9	0.0	124.3	54.7	121.8	
TOTALS	288.9	595.6	0.0	0.0	0.0	-324.9	18.3	-325.0
	43.1	198.7	-207.9	0.0	124.3	54.7	121.8	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:01
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-241.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-325.0	-325.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:01
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	2	1	1		50.0	13.7	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	2	2	0		0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	2	1	1		40.0	-0.6	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1		128.9	20.4	98.0	-45.0	143.0	30.0	1	1.000
58777	MULGREN113.8	2	3	1		70.0	9.6	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:02

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA

2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0562	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	1.0063	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0187	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0688	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0375	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0313	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0250	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0000	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0313	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0438	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0688	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	1.0187	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0438	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0375	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0812	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0187	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0375	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0812	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0313	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0688	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0562	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0562	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0750	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0438	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0688	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0125	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0562	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0875	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0688	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0625	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0375	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0438	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0812	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0812	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0875	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0938	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0688	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:03
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100% OF RATING SET A:

FROM BUS	TO BUS	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:03
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

DISTRIBUTION FACTOR FILE: Dfax06SP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58758 [CONCORD6230.00] CKT 1 ----- CONTINGENCY SINGLE 9
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58763 GLENELD3 115 0.9443 0.9969 58769 JEWELL 3 115 0.9473 1.0015
 58785 PHLBURG3 115 0.9403 0.9791 58793 SMITH-C3 115 0.9387 0.9880

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 24
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58773 MED-LDG3 115 0.9469 0.9754 58787 PRATT 3 115 0.9363 0.9581

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 25
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58810 GRNBURG134.5 1.0719 1.0445

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9422 0.9754 58774 MED-LDG4 138 0.9483 0.9795
 58787 PRATT 3 115 0.9343 0.9581 58797 SUNCITY3 115 0.9424 0.9858

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58792 [SEWARD 3115.00] CKT 1 ----- CONTINGENCY SINGLE 29
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58787 PRATT 3 115 0.9380 0.9581

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58768 [HARPER 4138.00] TO BUS 58775 [MILANTP4138.00] CKT 1 ----- CONTINGENCY SINGLE 33
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58768 HARPER 4 138 0.8911 0.9849 58773 MED-LDG3 115 0.9169 0.9754
 58774 MED-LDG4 138 0.9129 0.9795 58787 PRATT 3 115 0.9173 0.9581

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

58797 SUNCITY3 115 0.9377 0.9858 58813 HARPER 134.5 0.9192 1.0374

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0677 1.0417 58833 SUNCITY134.5 1.0614 1.0399

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9173 0.9581

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0778 1.0445 58833 SUNCITY134.5 1.0927 1.0399

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9420 0.9754 58774 MED-LDG4 138 0.9487 0.9795
 58787 PRATT 3 115 0.9345 0.9581

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58816 E-LIBER134.5 1.0682 1.0445 58829 S-LIBER134.5 1.0694 1.0446

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58784 [OTISSUB3115.00] TO BUS 58823 [OTISSUB134.500] CKT 1 ----- CONTINGENCY SINGLE 61
 58784*OTISSUB3 115 58823 OTISSUB134.5 2 4.9 8.9 8.0 111.7

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58784 [OTISSUB3115.00] TO BUS 58823 [OTISSUB134.500] CKT 2 ----- CONTINGENCY SINGLE 62
 58784*OTISSUB3 115 58823 OTISSUB134.5 1 3.8 9.1 8.0 113.9

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58785 [PHLBURG3115.00] TO BUS 58786 [PLAINVL3115.00] CKT 1 ----- CONTINGENCY SINGLE 63
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58785 PHLBURG3 115 0.9485 0.9791

.....
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2006 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
*** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
*** ACCC VOLTAGE REPORT ***
.....

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58787 [PRATT 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 68
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9213 0.9754 58774 MED-LDG4 138 0.9310 0.9795
58787 PRATT 3 115 0.8694 0.9581 58797 SUNCITY3 115 0.9413 0.9858
58826 PRATT 134.5 0.9445 1.0425

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58792 [SEWARD 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 74
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9325 0.9581 58796 ST-JOHN3 115 0.9479 0.9801

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 56601 [HEIZER 3115.00] CKT 1 ----- CONTINGENCY SINGLE 90
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58751 ALEXNDR3 115 0.9392 0.9905

13. 2006 WINTER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:10
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	181.1	416.9	0.0	0.0	0.0	-248.9	13.2	-249.0
WEPL	9.0	140.5	-152.8	0.0	127.2	63.9	84.6	
TOTALS	181.1	416.9	0.0	0.0	0.0	-248.9	13.2	-249.0
	9.0	140.5	-152.8	0.0	127.2	63.9	84.6	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:11
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-165.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-249.0	-249.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:11
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	-2	1	0	0	0.0	0.0	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	-2	2	0	0	0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	-2	1	0	0	0.0	0.0	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1	126.1	5.2	98.0	-45.0	143.0	30.0	30.0	1	1.000
58777	MULGREN113.8	2	3	1	55.0	3.7	34.0	-16.0	93.0	30.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:12

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA

2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0250	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	0.9812	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0000	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0562	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0250	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0187	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0063	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	0.9875	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	0.9937	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0375	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0187	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	0.9750	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0313	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0562	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0375	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0000	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0187	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.0438	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0188	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0250	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0250	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0250	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0313	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0250	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0375	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0063	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0313	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.0750	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0562	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0125	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0250	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0063	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.0500	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.0438	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.0938	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.0750	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0438	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100% OF RATING SET A:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:13
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
OUTPUT FOR AREA 539 [WEPL]
BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

FROM BUS	TO BUS	CURRENT(MVA)
BUS NAME BSKV AREA	BUS NAME BSKV AREA	CKT LOADING RATING PERCENT

* NONE *

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:13
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

BUS	AREA	V(PU)	V(KV)	BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------	-----	------	-------	-------

* NONE *

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

BUS	AREA	V(PU)	V(KV)	BUS	AREA	V(PU)	V(KV)
-----	------	-------	-------	-----	------	-------	-------

* NONE *

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

.....
 . 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
 . 2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
 . *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
 . *** ACCC VOLTAGE REPORT *** .

DISTRIBUTION FACTOR FILE: Dfax06WP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58752 [CMRIVTP3115.00] TO BUS 58759 [CUDAHY 3115.00] CKT 1 ----- CONTINGENCY SINGLE 3
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58806 CUDAHY 134.5 1.0664 1.0442

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9499 0.9748

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58758 [CONCORD6230.00] CKT 1 ----- CONTINGENCY SINGLE 9
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58805 CONCORD134.5 0.9480 1.0364

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58759 [CUDAHY 3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 13
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58753 CIM-PLT113.8 0.9489 0.9748

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58817 MED-LDG134.5 1.0618 1.0342 58833 SUNCITY134.5 1.0584 1.0356

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9362 0.9790

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0532 1.0304 58833 SUNCITY134.5 1.0706 1.0356

.....
. 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
. 2006 WINTER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
. *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
. *** ACCC VOLTAGE REPORT *** .
.....

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
*** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58816 E-LIBER134.5 1.0700 1.0459 58829 S-LIBER134.5 1.0739 1.0490

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58792 [SEWARD 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 74
*** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58826 PRATT 134.5 1.0651 1.0352

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58800 [W-LIBER3115.00] TO BUS 58836 [W-LIBER134.500] CKT 1 ----- CONTINGENCY SINGLE 83
*** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58838 NLIB 134.5 1.0656 1.0449

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58800 [W-LIBER3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 84
*** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58838 NLIB 134.5 1.0651 1.0449

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 56455 [NCIMARN3115.00] CKT 1 ----- CONTINGENCY SINGLE 88
*** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58830 SATANTA134.5 1.0658 1.0382

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58752 CMRIVTP3 115 0.9099 0.9838 58753 CIM-PLT113.8 0.8890 0.9748
58754 CIM-PLT3 115 0.9041 0.9826 58759 CUDAHY 3 115 0.9484 0.9981
58772 E-LIBER3 115 0.9060 0.9807 58782 NLIBTAP3 115 0.9040 0.9796
58790 S-LIBER3 115 0.9049 0.9798 58800 W-LIBER3 115 0.8992 0.9753
58837 NLIB 3 115 0.9019 0.9779

14. 2010 SUMMER PEAK

A. AREA 539 TOTALS

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:19
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL AREA TOTALS
 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES IN MW/MVAR

AREA	FROM GENERATION	TO LOAD	TO BUS SHUNT	TO LINE SHUNT	FROM CHARGING	TO NET INT	LOSSES	DESIRED NET INT
539	321.9	646.0	0.0	0.0	0.0	-345.1	20.9	-345.0
WEPL	67.4	215.1	-208.0	0.0	124.3	44.0	140.5	
TOTALS	321.9	646.0	0.0	0.0	0.0	-345.1	20.9	-345.0
	67.4	215.1	-208.0	0.0	124.3	44.0	140.5	

B. INTER-AREA TRANSFER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:20
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL INTER-AREA
 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES TRANSFER DATA

X--FROM AREA-X	X---TO AREA--X	ID	PTRANS	PTOTAL	DESINT
539 [WEPL]	515 [SWPA]	1	-20.0		
539 [WEPL]	534 [SUNC]	1	-50.0		
539 [WEPL]	534 [SUNC]	2	-2.0		
539 [WEPL]	536 [WERE]	1	-261.0		
539 [WEPL]	536 [WERE]	2	2.0		
539 [WEPL]	536 [WERE]	3	-14.0	-345.0	-345.0

C. GENERATOR UNIT DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:21
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL GENERATOR
 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES UNIT DATA

BUS#	NAME	BSKV	CD	ID	ST	PGEN	QGEN	QMAX	QMIN	PMAX	PMIN	OWN	FRACT
58753	CIM-PLT113.8	2	1	1		50.0	18.2	28.0	-15.0	58.0	25.0	1	1.000
58753	CIM-PLT113.8	2	2	0		0.0	0.0	10.0	-5.0	14.0	2.0	1	1.000
58755	CLIFTON113.8	2	1	1		55.0	4.4	32.0	-15.0	70.0	5.0	1	1.000
58770	JUD-LRG113.8	2	4	1		136.9	29.5	98.0	-45.0	143.0	30.0	1	1.000
58777	MULGREN113.8	2	3	1		80.0	15.3	34.0	-16.0	93.0	30.0	1	1.000

D. TRANSFORMER DATA

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:21
 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL TRANSFORMER DATA
 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

FROM	TO	CKT	TP	RATIO	ANGLE	RG	CONT	RMAX	RMIN	VMAX	VMIN	STEP	TABLE	CR	CX
56470	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56565	58792	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
56601	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58751	58802	1	T	1.0625	0.00	1	-58802	1.1000	0.9000	1.0500	1.0300	0.00625			
58753	58754	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58755	58756	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58756	58804	1	T	1.0125	0.00	1	-58804	1.1000	0.9000	1.0500	1.0300	0.00625			
58757	58758	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58757	58805	1	T	1.0313	0.00	1	-58805	1.1000	0.9000	1.0500	1.0300	0.00625			
58759	58806	1	T	1.0812	0.00	1	-58806	1.1000	0.9000	1.0500	1.0300	0.00625			
58761	58807	1	T	1.0562	0.00	1	-58807	1.1000	0.9000	1.0500	1.0300	0.00625			
58762	58808	1	T	1.0500	0.00	1	-58808	1.1000	0.9000	1.0500	1.0300	0.00625			
58763	58809	1	T	1.0500	0.00	1	-58809	1.1000	0.9000	1.0500	1.0300	0.00625			
58764	58810	1	T	1.0063	0.00	1	-58810	1.1000	0.9000	1.0500	1.0300	0.00625			
58765	58811	1	T	1.0438	0.00	1	-58811	1.1000	0.9000	1.0500	1.0300	0.00625			
58767	58812	1	T	1.0562	0.00	1	-58812	1.1000	0.9000	1.0500	1.0300	0.00625			
58768	58813	1	T	1.0750	0.00	1	-58813	1.1000	0.9000	1.0500	1.0300	0.00625			
58769	58814	1	T	1.0438	0.00	1	-58814	1.1000	0.9000	1.0500	1.0300	0.00625			
58770	58771	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58771	58815	1	T	1.0562	0.00	1	-58815	1.1000	0.9000	1.0500	1.0300	0.00625			
58772	58816	1	T	1.0562	0.00	1	-58816	1.1000	0.9000	1.0500	1.0300	0.00625			
58773	58774	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58773	58817	1	T	1.0875	0.00	1	-58817	1.1000	0.9000	1.0500	1.0300	0.00625			
58776	58818	1	T	1.0187	0.00	1	-58818	1.1000	0.9000	1.0500	1.0300	0.00625			
58777	58778	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58779	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58778	58819	1	T	1.0438	0.00	1	-58819	1.1000	0.9000	1.0500	1.0300	0.00625			
58780	58820	1	T	1.1000	0.00	1	-58820	1.1000	0.9000	1.0500	1.0300	0.00625			
58781	58821	1	T	1.0438	0.00	1	-58821	1.1000	0.9000	1.0500	1.0300	0.00625			
58783	58822	1	T	1.0750	0.00	1	-58822	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	1	T	1.0688	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58784	58823	2	T	1.0688	0.00	1	-58823	1.1000	0.9000	1.0500	1.0300	0.00625			
58785	58824	1	T	1.0938	0.00	1	-58824	1.1000	0.9000	1.0500	1.0300	0.00625			
58786	58825	1	T	1.0625	0.00	1	-58825	1.1000	0.9000	1.0500	1.0300	0.00625			
58787	58826	1	T	1.0812	0.00	1	-58826	1.1000	0.9000	1.0500	1.0300	0.00625			
58788	58827	1	T	1.0187	0.00	1	-58827	1.1000	0.9000	1.0500	1.0300	0.00625			
58789	58828	1	T	1.0625	0.00	1	-58828	1.1000	0.9000	1.0500	1.0300	0.00625			
58790	58829	1	T	1.1000	0.00	1	-58829	1.1000	0.9000	1.0500	1.0300	0.00625			
58791	58830	1	T	1.0875	0.00	1	-58830	1.1000	0.9000	1.0500	1.0300	0.00625			
58793	58831	1	T	1.0812	0.00	1	-58831	1.1000	0.9000	1.0500	1.0300	0.00625			
58794	58795	1	F	1.0000	0.00	1	0	1.5000	0.5100	1.5000	0.5100	0.00625			
58794	58832	1	T	1.0375	0.00	1	-58832	1.1000	0.9000	1.0500	1.0300	0.00625			
58797	58833	1	T	1.0625	0.00	1	-58833	1.1000	0.9000	1.0500	1.0300	0.00625			
58798	58834	1	T	1.1000	0.00	1	-58834	1.1000	0.9000	1.0500	1.0300	0.00625			
58799	58835	1	T	1.1000	0.00	1	-58835	1.1000	0.9000	1.0500	1.0300	0.00625			
58800	58836	1	T	1.1000	0.00	1	-58836	1.1000	0.9000	1.0500	1.0300	0.00625			
58837	58838	1	T	1.1000	0.00	1	-58838	1.1000	0.9000	1.0500	1.0300	0.00625			
58839	58840	1	F	1.0812	0.00	1	-58839	1.1000	0.9000	1.0500	1.0300	0.00625			

E. BASE CASE BRANCH LOADINGS ABOVE 100.0 % OF RATING SET A:

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

X-----FROM BUS-----X				X-----TO BUS-----X				CURRENT(MVA)				
BUS	NAME	BSKV	AREA	BUS	NAME	BSKV	AREA	CKT	LOADING	RATING	PERCENT	
58771	JUD-LRG3	115	539	58840*	EDODGE	3	115	539	1	89.4	86.0	103.9

F. BASE CASE BUSES WITH VOLTAGE GREATER THAN 1.0500:

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E MON, APR 03 2000 16:23
1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES

BUSES WITH VOLTAGE GREATER THAN 1.0500:

X----- BUS -----X				AREA	V(PU)	V(KV)	X----- BUS -----X				AREA	V(PU)	V(KV)
* NONE *													

G. BASE CASE BUSES WITH VOLTAGE LESS THAN 0.9500:

X----- BUS -----X				AREA	V(PU)	V(KV)	X----- BUS -----X				AREA	V(PU)	V(KV)		
58787	PRATT	3	115	539	0.9433	108.48									

H. ACCC OVERLOAD REPORT MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B & ACCC VOLTAGE REPORT

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

DISTRIBUTION FACTOR FILE: Dfax10SP.sgf
 SUBSYSTEM DESCRIPTION FILE: USER DIALOGUE
 MONITORED ELEMENT FILE: opsmon539.txt
 CONTINGENCY DESCRIPTION FILE: opscon2k.txt

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 BASE CASE -----
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.9433 0.9433

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58754 [CIM-PLT3115.00] TO BUS 58782 [NLIBTAP3115.00] CKT 1 ----- CONTINGENCY SINGLE 5
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58782 NLIBTAP3 115 0.9475 0.9684 58800 W-LIBER3 115 0.9417 0.9630
 58837 NLIB 3 115 0.9442 0.9653

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58758 [CONCORD6230.00] CKT 1 ----- CONTINGENCY SINGLE 9
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58757 CONCORD3 115 0.9416 1.0072 58763 GLENELD3 115 0.9281 0.9819
 58769 JEWELL 3 115 0.9320 0.9879 58785 PHLBURG3 115 0.9284 0.9658
 58793 SMITH-C3 115 0.9259 0.9738 58798 WALDO 3 115 0.9476 0.9758

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58763 [GLENELD3115.00] CKT 1 ----- CONTINGENCY SINGLE 10
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58763 GLENELD3 115 0.9341 0.9819 58785 PHLBURG3 115 0.9404 0.9658
 58793 SMITH-C3 115 0.9408 0.9738

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58757 [CONCORD3115.00] TO BUS 58769 [JEWELL 3115.00] CKT 1 ----- CONTINGENCY SINGLE 11
 *** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58769 JEWELL 3 115 0.9445 0.9879

1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL
 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES
 *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B ***
 *** ACCC VOLTAGE REPORT ***

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58771 [JUD-LRG3115.00] CKT 1 ----- CONTINGENCY SINGLE 24
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58764 GRNBURG3 115 0.9414 0.9910 58773 MED-LDG3 115 0.9310 0.9652
 58774 MED-LDG4 138 0.9370 0.9709 58787 PRATT 3 115 0.9175 0.9433
 58797 SUNCITY3 115 0.9358 0.9769

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58764 [GRNBURG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 25
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58810 GRNBURG134.5 1.0729 1.0435
 AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9291 0.9652 58774 MED-LDG4 138 0.9378 0.9709
 58787 PRATT 3 115 0.9177 0.9433 58797 SUNCITY3 115 0.9289 0.9769

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58778 [MULGREN3115.00] CKT 1 ----- CONTINGENCY SINGLE 28
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58766 GBENDTP3 115 0.9417 0.9956 58787 PRATT 3 115 0.9198 0.9433
 58792 SEWARD 3 115 0.9414 0.9798 58796 ST-JOHN3 115 0.9366 0.9666

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58766 [GBENDTP3115.00] TO BUS 58792 [SEWARD 3115.00] CKT 1 ----- CONTINGENCY SINGLE 29
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58787 PRATT 3 115 0.9189 0.9433 58792 SEWARD 3 115 0.9398 0.9798
 58796 ST-JOHN3 115 0.9355 0.9666

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
 X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
 OPEN LINE FROM BUS 58768 [HARPER 4138.00] TO BUS 58774 [MED-LDG4138.00] CKT 1 ----- CONTINGENCY SINGLE 32
 *** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
 58773 MED-LDG3 115 0.9389 0.9652 58774 MED-LDG4 138 0.9389 0.9709

.....
. 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
. 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
. *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
. *** ACCC VOLTAGE REPORT *** .
.....

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58768 [HARPER 4138.00] TO BUS 58775 [MILANTP4138.00] CKT 1 ----- CONTINGENCY SINGLE 33
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58818 MILAN 134.5 1.0669 1.0468

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58764 GRNBURG3 115 0.9394 0.9910 58768 HARPER 4 138 0.8329 0.9819
58773 MED-LDG3 115 0.8722 0.9652 58774 MED-LDG4 138 0.8641 0.9709
58787 PRATT 3 115 0.8775 0.9433 58796 ST-JOHN3 115 0.9294 0.9666
58797 SUNCITY3 115 0.9009 0.9769 58813 HARPER 134.5 0.8322 1.0317
58817 MED-LDG134.5 0.9253 1.0331

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58774 [MED-LDG4138.00] CKT 1 ----- CONTINGENCY SINGLE 44
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58813 HARPER 134.5 1.0564 1.0317

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9389 0.9652

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58787 [PRATT 3115.00] CKT 1 ----- CONTINGENCY SINGLE 45
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58813 HARPER 134.5 1.0518 1.0317 58817 MED-LDG134.5 1.0679 1.0331
58833 SUNCITY134.5 1.0746 1.0457

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58787 PRATT 3 115 0.8918 0.9433 58796 ST-JOHN3 115 0.9386 0.9666

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58773 [MED-LDG3115.00] TO BUS 58797 [SUNCITY3115.00] CKT 1 ----- CONTINGENCY SINGLE 46
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58810 GRNBURG134.5 1.0781 1.0435 58833 SUNCITY134.5 1.1026 1.0457

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58773 MED-LDG3 115 0.9300 0.9652 58774 MED-LDG4 138 0.9391 0.9709
58787 PRATT 3 115 0.9185 0.9433

.....
. 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
. 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
. *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
. *** ACCC VOLTAGE REPORT *** .
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X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58780 [N-DODGE3115.00] TO BUS 58840 [EDODGE 3115.00] CKT 1 ----- CONTINGENCY SINGLE 57
*** NONE ***
X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58839 EDODGE 134.5 1.0662 1.0461

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58782 [NLIBTAP3115.00] TO BUS 58837 [NLIB 3115.00] CKT 1 ----- CONTINGENCY SINGLE 59
*** NONE ***
X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58816 E-LIBER134.5 1.0713 1.0438 58829 S-LIBER134.5 1.0673 1.0389

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58784 [OTISSUB3115.00] TO BUS 58823 [OTISSUB134.500] CKT 1 ----- CONTINGENCY SINGLE 61
58784*OTISSUB3 115 58823 OTISSUB134.5 2 5.4 9.9 8.0 123.6

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58784 [OTISSUB3115.00] TO BUS 58823 [OTISSUB134.500] CKT 2 ----- CONTINGENCY SINGLE 62
58784*OTISSUB3 115 58823 OTISSUB134.5 1 4.2 10.1 8.0 126.5

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58785 [PHLBURG3115.00] TO BUS 58786 [PLAINVL3115.00] CKT 1 ----- CONTINGENCY SINGLE 63
*** NONE ***
X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58785 PHLBURG3 115 0.9244 0.9658

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58785 [PHLBURG3115.00] TO BUS 58824 [PHLBURG134.500] CKT 1 ----- CONTINGENCY SINGLE 65
*** NONE ***
X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: 58831 SMITH-C134.5 1.0658 1.0428

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58787 [PRATT 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 68
*** NONE ***

X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: 58768 HARPER 4 138 0.9481 0.9819 58773 MED-LDG3 115 0.9042 0.9652
58774 MED-LDG4 138 0.9155 0.9709 58787 PRATT 3 115 0.8444 0.9433
58797 SUNCITY3 115 0.9267 0.9769 58826 PRATT 134.5 0.9272 1.0381

.....
. 1-2000 SOUTHWEST POWER POOL BASE CASE POWER FLOW MODEL .
. 2010 SUMMER PEAK - UTILICORP BASE CASE WITH WERE CHANGES .
. *** ACCC OVERLOAD REPORT: MONITORED ELEMENTS LOADED ABOVE 100.0 % OF RATING SET B *** .
. *** ACCC VOLTAGE REPORT *** .
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X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58792 [SEWARD 3115.00] TO BUS 58796 [ST-JOHN3115.00] CKT 1 ----- CONTINGENCY SINGLE 74
*** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58773 MED-LDG3 115 0.9421 0.9652 58774 MED-LDG4 138 0.9495 0.9709
58787 PRATT 3 115 0.9053 0.9433 58796 ST-JOHN3 115 0.9185 0.9666

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58799 [W-DODGE3115.00] TO BUS 58835 [W-DODGE134.500] CKT 1 ----- CONTINGENCY SINGLE 82
*** NONE ***

AREA 539 BUSES WITH VOLTAGE GREATER THAN 1.0500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58812 HAGGARD134.5 1.0637 1.0395

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58779 [MULGREN6230.00] TO BUS 56601 [HEIZER 3115.00] CKT 1 ----- CONTINGENCY SINGLE 90
*** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58751 ALEXNDR3 115 0.9372 0.9888 58785 PHLBURG3 115 0.9452 0.9658

X----- C O N T I N G E N C Y E V E N T S -----X X-- O V E R L O A D E D L I N E S --X X--MVA(MW)FLOW--X
X---- MULTI-SECTION LINE GROUPINGS ----X FROM NAME TO NAME CKT PRE-CNT POST-CNT RATING PERCENT
OPEN LINE FROM BUS 58786 [PLAINVL3115.00] TO BUS 56551 [SALINE 3115.00] CKT 1 ----- CONTINGENCY SINGLE 92
*** NONE ***

AREA 539 BUSES WITH VOLTAGE LESS THAN 0.9500: X----- BUS -----X V-CONT V-INIT X----- BUS -----X V-CONT V-INIT
58785 PHLBURG3 115 0.9278 0.9658 58786 PLAINVL3 115 0.9349 0.9819
58793 SMITH-C3 115 0.9467 0.9738 58798 WALDO 3 115 0.9453 0.9758