

SPP-2001-245
UPDATE

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC % Loading	TC % Loading	ATC (MW)	Outaged Branch Causing Overload	Solution	Cost
03SP	GRRD	GRRD	AFTON 161/69KV TRANSFORMER	50	101.3	106.3	0	AFTON - MIAMI 161KV CKT 1	Replace 50 MVA Transformer with 84 MVA unit	890,000
03SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	126.7	127.9	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	345 kV Project to be Built for Customer's Previous Contiguous Request (SPP-2001-244); Build 20 mile Flint Creek - East Centerton 345 kV line with East Centerton 345 kV Terminal Work and New East Centerton 345/161 kV auto transformer	-
03SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	119.8	120.6	0	FLINT CREEK - TONTITOWN 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
03SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	115.5	116.7	0	FARMINGTON AECC - SOUTH FAYETTEVILLE 161KV CKT 1	*	-
03SP	AEPW	AEPW	CHEROKEE REC - KNOX LEE 138KV	209	102.3	105.3	0	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport - Diana 345kV	AEPW Planned Upgrade Estimated Completion 5/1/2005	-
03SP	AEPW	AEPW	DYESS - EAST ROGERS 161KV	244	110.2	111.5	0	FLINT CREEK - GENTRY REC 161KV CKT 1	AEPW Planned Tontitown Projects Estimated Completion 6/1/2004 Modeled in 04SP	-
03SP	AEPW	AEPW	DYESS - EAST ROGERS 161KV	244	108.3	109.6	0	EAST CENTERTON - GENTRY REC 161KV CKT 1	*	-
03SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	353	107.3	107.6	0	FLINT CREEK - TONTITOWN 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
03SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	353	105.7	106.4	0	DYESS - EAST ROGERS 161KV CKT 1	*	-
03SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	353	100.0	100.5	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	*	-
03SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	353	100.1	100.5	0	Multiple Outage Contingency Monett - Brookline 345kV Flint Creek - Monett 345kV	*	-
03SP	AEPW	AEPW	ELM SPRINGS REC - TONTITOWN 161KV	335	110.3	110.6	0	DYESS - TONTITOWN 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
03SP	AEPW	AEPW	ELM SPRINGS REC - TONTITOWN 161KV	335	100.1	100.4	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	*	-
03SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	109.2	109.5	0	FLINT CREEK - TONTITOWN 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
03SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	107.6	108.3	0	DYESS - EAST ROGERS 161KV CKT 1	*	-
03SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	102.0	102.5	0	Multiple Outage Contingency Monett - Brookline 345kV Flint Creek - Monett 345kV	*	-
03SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	102.0	102.5	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	*	-
03SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	100.2	100.6	0	FARMINGTON AECC - SOUTH FAYETTEVILLE 161KV CKT 1	*	-
03SP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 1	107	116.8	118.4	0	MARSHALL 138/69KV TRANSFORMER CKT 2	Replace 755 ACAR Strain Bus. Replace 1033 AAC Jumpers	40,000
03SP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 2	107	116.8	118.4	0	MARSHALL 138/69KV TRANSFORMER CKT 1	Replace 755 ACAR Strain Bus. Replace 1033 AAC Jumpers	40,000
03WP	AEPW	AEPW	DYESS - EAST ROGERS 161KV	245	99.8	101.0	16	FLINT CREEK - GENTRY REC 161KV CKT 1	AEPW Planned Tontitown Projects Estimated Completion 6/1/2004 Modeled in 04SP	-
04AP	AEPW	AEPW	SOUTH SHREVEPORT - WALLACE LAKE 138KV	210	99.9	103.1	2	DOLET HILLS 345/230KV TRANSFORMER CKT 1	Dolet Hills Operating Guide Applied	-
04AP	AEPW	CELE	INTERNATIONAL PAPER - WALLACE LAKE 138KV	236	98.6	101.9	42	DOLET HILLS 345/230KV TRANSFORMER CKT 1	Dolet Hills Operating Guide Applied	-
04SP	GRRD	GRRD	AFTON 161/69KV TRANSFORMER	50	100.9	105.9	0	AFTON - MIAMI 161KV CKT 1	See Previous	See Previous
04SP	AEPW	AEPW	CHAMBER SPRINGS - FARMINGTON AECC 161KV	335	100.4	101.1	0	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
04SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	140.5	141.9	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
04SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	132.3	133.3	0	FLINT CREEK - TONTITOWN 161KV CKT 1	*	-
04SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	128.3	129.7	0	FARMINGTON AECC - SOUTH FAYETTEVILLE 161KV CKT 1	*	-
04SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	109.2	110.5	0	FLINT CREEK - GENTRY REC 161KV CKT 1	*	-
04SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	247	108.4	109.6	0	EAST CENTERTON - GENTRY REC 161KV CKT 1	*	-
04SP	AEPW	AEPW	CHEROKEE REC - KNOX LEE 138KV	209	110.2	113.3	0	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport - Diana 345kV	AEPW Planned Upgrade Estimated Completion 5/1/2005	-
04SP	AEPW	AEPW	CHEROKEE REC - KNOX LEE 138KV	209	101.5	103.1	0	STONEWALL - WESTERN ELECTRIC T 138KV CKT 1	*	-
04SP	AEPW	AEPW	CHEROKEE REC - KNOX LEE 138KV	209	100.2	102.9	0	LONGWOOD - WILKES 345KV CKT 1	*	-
04SP	AEPW	AEPW	CHEROKEE REC - TATUM 138KV	209	104.6	107.8	0	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport - Diana 345kV	AEPW Planned Upgrade Estimated Completion 5/1/2005	-

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04SP	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	493	102.9	103.2	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	Add third 345 - 138 kV transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Applied	-
04SP	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	493	102.9	103.2	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	Add third 345 - 138 kV transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Applied	-
04SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	305*	101.6	102.0	0	Base Case	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
04SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	353	100.8	101.2	0	LOWELL - TONTITOWN 161KV CKT 1	*	-
04SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	304*	104.8	105.1	0	Base Case	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
04SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	102.9	103.4	0	LOWELL - TONTITOWN 161KV CKT 1	*	-
04SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	100.8	101.2	0	LOWELL - ROGERS 161KV CKT 1	*	-
04SP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 1	107	121.7	123.4	0	MARSHALL 138/69KV TRANSFORMER CKT 2	See Previous	See Previous
04SP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 2	107	121.7	123.4	0	MARSHALL 138/69KV TRANSFORMER CKT 1	See Previous	See Previous
04SP	AEPW	AEPW	ORU WEST TAP - RIVERSIDE STATION 138KV	304	100.5	101.0	0	Multiple Outage Contingency 53795 R.S.S.-4138 to 53863 ORU ETP4138 CKT 1 53863 ORU ETP4138 to 53749 ORU E4138 CKT 1 53863 ORU ETP4138 to 53873 WARTAP4138 CKT 1 53873 WARTAP4138 to 53822 81YALES4138 CKT 1 53873 WARTAP4138 to 53861 96YALE-4138 CKT 1 53822 81YALES4138 to 53872 WAREN-W4138 CKT 1	Replace wavetraps @ Riverside	10,000
04SP	AEPW	AEPW	ROCK HILL - TATUM 138KV	209	102.9	106.1	0	Multiple Outage Contingency Southwest Shreveport - Longwood 345KV Southwest Shreveport - Diana 345KV	AEPW Planned Upgrade Estimated Completion 5/1/2005	-
04SP	AEPW	AEPW	IPC JEFFERSON - LIEBERMAN 138KV	136	98.8	102.0	38	LONGWOOD - WILKES 345KV CKT 1	AEPW Planned Upgrade Estimated Completion 4/1/2005	-
04SP	AEPW	AEPW	CHEROKEE REC - KNOX LEE 138KV	209	98.8	101.6	44	7GRIMES - CROCKETT 345KV CKT 1	AEPW Planned Upgrade Estimated Completion 5/1/2005	-
04SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	99.2	100.9	47	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
04SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	99.3	100.7	49	BROOKLINE - JUNCTION 161KV CKT 1	*	-
04SP	AEPW	AEPW	KNOX LEE - OAK HILL #2 138KV	206	99.8	100.2	56	KNOX LEE - MONROE CORNERS REC 138KV CKT 1	Reset relays & replace wavetraps @ Knoxlee	50,000
04SP	AEPW	AEPW	CHEROKEE REC - KNOX LEE 138KV	209	99.0	100.6	64	KEATCHIE REC - STONEWALL 138KV CKT 1	AEPW Planned Upgrade Estimated Completion 5/1/2005	-
04SP	AEPW	AEPW	JACKSONVILLE (SWE-RC-ETEC) - OVERTON 138KV	235	98.9	100.4	74	CROCKETT - TENASKA RUSK COUNTY 345KV CKT 1	Third Party Line Owned by Rayburn Country Electric Co-op	-
04SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	98.3	100.0	100	BATTLEFIELD - SOUTHWEST DISPOSAL 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
04FA	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	493	105.0	105.3	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	Add third 345 - 138 kV transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Applied	-
04FA	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	493	105.0	105.3	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	Add third 345 - 138 kV transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Applied	-
04FA	AEPW	AEPW	DIANA - LONE STAR SOUTH 138KV	287	99.1	101.0	47	Multiple Outage Contingency Welsh - Wilkes 345KV Welsh - Northwest Texarkana 345KV	Replace 1200A switch @ Diana	30,000
04WP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	275	104.9	106.0	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP	-
04WP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	275	99.3	100.1	87	FLINT CREEK - TONTITOWN 161KV CKT 1	*	-
09SP	GRRD	GRRD	412SUB - KANSAS TAP 161KV	338	101.7	102.7	0	FLINT CREEK - GRDA1 345KV CKT 1	Reconductor 9.7 miles with 1590MCM ACSR Chouteau Maid Operating Procedure Does Not Apply for loadings shown	1,488,000
09SP	GRRD	GRRD	412SUB - KERR 161KV	338	102.4	103.4	0	FLINT CREEK - GRDA1 345KV CKT 1	Reconductor 12.5 miles with 1590MCM ACSR Chouteau Maid Operating Procedure Does Not Apply for loadings shown	1,918,000
09SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	126.2	127.8	0	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244), Relieved by Selected Upgrades to be Assigned to Study Request	-
09SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	125.3	126.9	0	BATTLEFIELD - SOUTHWEST DISPOSAL 161KV CKT 1	*	-
09SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	116.5	117.9	0	BROOKLINE - JUNCTION 161KV CKT 1	*	-

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09SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	102.5	104.1	0	BATTLEFIELD - SPRINGFIELD 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244)	-
09SP	AEPW	AEPW	CHAMBER SPRINGS - FARMINGTON AECC 161KV	335	112.6	113.3	0	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244)	-
09SP	AEPW	AEPW	CHAMBER SPRINGS - FARMINGTON AECC 161KV	335	102.9	103.2	0	FLINT CREEK - TONTITOWN 161KV CKT 1	*	-
09SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	155.4	156.8	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244)	-
09SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	139.5	140.9	0	FARMINGTON AECC - SOUTH FAYETTEVILLE 161KV CKT 1	*	-
09SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	134.9	135.9	0	FLINT CREEK - TONTITOWN 161KV CKT 1	*	-
09SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	108.3	109.7	0	FLINT CREEK - GRDA1 345KV CKT 1	*	-
09SP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	107.8	109.2	0	SOUTH FAYETTEVILLE - SOUTHEAST FAYETTEVILLE 161KV CKT 1	*	-
09SP	KACP	KACP	COLLEGE - CRAIG 161KV	335	102.5	102.8	0	BROOKRIDGE - OVERLAND PARK 161KV CKT 1	Reconductor with 1192.5 ACSS, 558 normal/emergency rating, upgrade breaker	700,000
09SP	OKGE	OKGE	CONTINENTAL BLACKS - OSAGE 69KV	96	114.1	114.7	0	KILDARE - WHITE EAGLE 138KV CKT 1	Replace Wavetrap and increase CT ratio.	30,000
09SP	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	493	111.3	111.7	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	Add third 345 - 138 kv transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Not Effective in 2009, Upgrade Not Required Until 2008	-
09SP	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	493	111.3	111.7	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	Add third 345 - 138 kv transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Not Effective in 2009, Upgrade Not Required Until 2008	-
09SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	353	105.6	106.0	0	EAST CENTERTON - FLINT CREEK 345KV CKT 1	345 kv Project to be Built by Customer for Previous Contiguous Request (SPP-2001-244). Ignore outage of line and transformer for customer's subsequent contiguous request.	-
09SP	AEPW	AEPW	EAST CENTERTON - GENTRY REC 161KV	353	105.5	105.9	0	EAST CENTERTON 345/161KV TRANSFORMER CKT 1	*	-
09SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	108.5	108.9	0	EAST CENTERTON - FLINT CREEK 345KV CKT 1	345 kv Project to be Built by Customer for Previous Contiguous Request (SPP-2001-244). Ignore outage of line and transformer for customer's subsequent contiguous request.	-
09SP	AEPW	AEPW	FLINT CREEK - GENTRY REC 161KV	354	108.4	108.8	0	EAST CENTERTON 345/161KV TRANSFORMER CKT 1	*	-
09SP	AEPW	AEPW	JACKSONVILLE (SWE-RC-ETEC) - OVERTON 138KV	235	109.0	109.8	0	CROCKETT - TENASKA RUSK COUNTY 345KV CKT 1	Contingency Solution Blown Up, Contingency Converged by putting 120 MW at Tenaska Frontier, Third Party Line Owned by Rayburn Country Electric Co-op	-
09SP	ENTR	SWPA	JONES - JONESBORO 161KV	223	111.2	111.8	0	KENNETT - NEW MADRID 161KV CKT 1	Third Party Line Owned by Entergy SWPA Terminal Equipment with 251 MVA Rating. Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244)	-
09SP	ENTR	SWPA	JONES - JONESBORO 161KV	223	102.2	102.8	0	KENNETT - PARAGOULD 161KV CKT 1	*	-
09SP	AEPW	AEPW	LONGWOOD - OAK PAN-HARR REC 138KV	209	104.2	105.5	0	Multiple Outage Contingency Southwest Shreveport - Longwood 345kv Southwest Shreveport - Diana 345kv	Rebuild 1.8 miles of 666 ACSR with 1590 ACSR	800,000
09SP	AEPW	AEPW	MARSHALL - NORTH MARSHALL 69KV	72	100.3	103.0	0	Multiple Outage Contingency Southwest Shreveport - Longwood 345kv Southwest Shreveport - Diana 345kv	Replace 350 CU bus & jumpers @ North Marshall.	23,356
09SP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 1	107	129.6	131.2	0	MARSHALL 138/69KV TRANSFORMER CKT 2	See Previous	See Previous
09SP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 2	107	129.6	131.2	0	MARSHALL 138/69KV TRANSFORMER CKT 1	See Previous	See Previous
09SP	AEPW	AEPW	ORU WEST TAP - RIVERSIDE STATION 138KV	304	115.0	115.6	0	Multiple Outage Contingency 53795 R.S.S.-4138 to 53863 ORU ETP4138 CKT 1 53863 ORU ETP4138 to 53749 ORU E4138 CKT 1 53863 ORU ETP4138 to 53873 WARNTAP4138 CKT 1 53873 WARNTAP4138 53822 81YALES4138 CKT 1 53873 WARNTAP4138 to 53861 96YALE-4138 CKT 1 53822 81YALES4138 to 53872 WAREN-W4138 CKT 1	See Previous	See Previous
09SP	AEPW	AEPW	ORU WEST TAP - RIVERSIDE STATION 138KV	304	104.0	104.5	0	ORU EAST TAP - RIVERSIDE STATION 138KV CKT 1	See Previous	See Previous
09SP	AEPW	AEPW	ORU WEST TAP - RIVERSIDE STATION 138KV	304	101.2	101.8	0	ORU EAST TAP - WARNREN TAP 138KV CKT 1	See Previous	See Previous
09SP	AECI	AECI	STILWELL - TITANTIC TAP 69KV	36	116.4	117.4	0	2BRUSHY - SALLISAW 69KV CKT 1	Rebuild 9.2 miles with 795MCM ACSR	1,518,000
09SP	EMDE	SWPA	SUB 438 - RIVERSIDE - TABLE ROCK 161KV	268	105.4	105.7	0	EUREKA SPRINGS - OSAGE 161KV CKT 1	Contingency is Invalid, Contingency Causes Voltage to Collapse at Osage, With Load removed at Osage, Facility Not Overloaded	-
09SP	AECI	GRRD	TAHLEQUAH - TITANTIC TAP 69KV	47	105.7	106.5	0	2BRUSHY - SALLISAW 69KV CKT 1	Rebuild 9.4 miles with 795MCM ACSR	1,551,000
09SP	AECI	GRRD	TAHLEQUAH - TITANTIC TAP 69KV	47	100.5	100.9	0	SALLISAW 161/69KV TRANSFORMER CKT 1	See Previous	See Previous
09SP	AEPW	AEPW	WHITNEY 138/69KV TRANSFORMER CKT 1	146	100.6	101.3	0	WHITNEY 138/69KV TRANSFORMER CKT 2	Add 3rd Whitney Auto	1,300,000
09SP	AEPW	AEPW	WHITNEY 138/69KV TRANSFORMER CKT 2	146	100.3	101.0	0	WHITNEY 138/69KV TRANSFORMER CKT 1	See Previous	See Previous

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09SP	AEPW	AEPW	ROCK HILL - ROSBOROUGH 69KV	72	99.8	101.9	8	CHEROKEE REC - KNOX LEE 138KV CKT 1	Replace Rock Hill switches 6492 & 6493 & replace the jumpers between the switches & the breaker 6490	75,000
09SP	AEPW	AEPW	NORTH MARSHALL - WOODLAWN 69KV	51	99.7	103.4	8	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport - Diana 345kV	Replace 3/0 CU jumpers @ North Marshall	15,000
09SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	99.7	101.1	19	JUNCTION - NICHOLS 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244), Relieved by Selected Upgrades to be Assigned to Study Request	-
09SP	OKGE	OKGE	MUSKOGEE - PECAN CREEK 345KV	478	99.9	100.1	39	FT SMITH - MUSKOGEE 345KV CKT 1	Increase CT ration at Pecan Creek from 800-5 to 2000-5 to allow a 1500 amp rating of line section	2,500
09SP	SPRM	SPRM	SOUTHWEST - SOUTHWEST DISPOSAL 161KV	358	99.5	100.6	44	BROOKLINE - SPRINGFIELD 161KV CKT 1	Parallel Southwest - Southwest Disposal - Battlefield 161 kV line with new line	6,300,000
09SP	AECI	GRRD	TAHLEQUAH - TITANTIC TAP 69KV	47	99.8	100.2	50	Multiple Outage Contingency Liberty Tap - Van Buren 161kV Liberty Tap - Sallisaw 161kV Gore - Sallisaw 161kV	See Previous	See Previous
09SP	AEPW	AEPW	MARSHALL - NORTH MARSHALL 69KV	72	98.4	100.9	63	LONGWOOD - WILKES 345KV CKT 1	See Previous	See Previous
09SP	OKGE	OKGE	MUSKOGEE - PECAN CREEK 345KV	478	99.3	100.3	67	CLARKSVILLE - MUSKOGEE 345KV CKT 1	See Previous	See Previous
09SP	AEPW	AEPW	FARMINGTON AECC - SOUTH FAYETTEVILLE 161KV	313	99.5	100.2	74	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244)	-
09SP	AEPW	AEPW	NORTH MARSHALL - WOODLAWN 69KV	51	97.0	100.4	87	LONGWOOD - WILKES 345KV CKT 1	See Previous	See Previous
09WP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	108.9	110.2	0	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244), Relieved by Selected Upgrades to be Assigned to Study Request	-
09WP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	108.3	109.7	0	BATTLEFIELD - SOUTHWEST DISPOSAL 161KV CKT 1	*	-
09WP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	102.5	103.6	0	BROOKLINE - JUNCTION 161KV CKT 1	*	-
09WP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	127.8	129.1	0	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244)	-
09WP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	113.6	114.8	0	FARMINGTON AECC - SOUTH FAYETTEVILLE 161KV CKT 1	*	-
09WP	AEPW	AEPW	CHAMBER SPRINGS - TONTITOWN 161KV	244	111.9	112.7	0	FLINT CREEK - TONTITOWN 161KV CKT 1	*	-
09WP	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	493	108.1	108.4	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	Add third 345 - 138 kV transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Not Effective in 2009, Upgrade Not Required Until 2008	-
09WP	OKGE	OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	493	108.1	108.4	0	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	Add third 345 - 138 kV transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008. Operating Guide Not Effective in 2009, Upgrade Not Required Until 2008	-
09WP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 1	121	103.2	104.8	0	MARSHALL 138/69KV TRANSFORMER CKT 2	See Previous	See Previous
09WP	AEPW	AEPW	MARSHALL 138/69KV TRANSFORMER CKT 2	121	103.2	104.8	0	MARSHALL 138/69KV TRANSFORMER CKT 1	See Previous	See Previous
									Total Cost	16,780,856

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC Without Upgrades %Loading	BC With Upgrades %Loading	TC Without Upgrades %Loading	TC With Upgrades %Loading	Outaged Branch Causing Overload	Solution	Cost
09SP	AEPW	AEPW	FLOURNOY - OAK PAN-HARR REC 138KV	209	98.0	99.0	99.3	100.3	Multiple Outage Contingency Southwest Shreveport - Longwood 345kV Southwest Shreveport - Diana 345kV	Rebuild 10.42 miles 666 ACSR to 1590 ACSR.	4,200,000
09SP	SWPA	SWPA	SPRINGFIELD 161/69KV TRANSFORMER CKT 1	80	100.9	102.4	100.8	102.2	NICHOLS 161/69KV TRANSFORMER CKT 1	Replace 25/25MVA transformer #3 with 80MVA unit to eliminate overload of 80MVA #1 transformer.	1,300,000
09SP	SWPA	SPRM	BATTLEFIELD - SPRINGFIELD 161KV	330	88.7	102.5	90.2	104.2	BROOKLINE - SPRINGFIELD 161KV CKT 1	Replace the disconnect switches and metering CTs at Springfield	80,000
09SP	SWPA	SPRM	GOLDEN WEST - SPRINGFIELD 69KV CKT 1	72	101.4	123.0	101.3	122.7	GOLDEN WEST - SPRINGFIELD 69KV CKT 2	Updated Emergency Rating 95 MVA	-
09SP	SWPA	SPRM	GOLDEN WEST - SPRINGFIELD 69KV CKT 2	72	101.4	123.0	101.3	122.7	GOLDEN WEST - SPRINGFIELD 69KV CKT 1	Updated Emergency Rating 95 MVA	-
09SP	AEPW	AEPW	GREGGTON - LAKE LAMOND 69KV	107	100.6	102.8	101.0	103.2	PERDUE 138/69KV TRANSFORMER CKT 1	Rebuild 2.66 miles of 755 ACAR with 1590 ACSR	1,100,000
09SP	AEPW	AEPW	GREGGTON - LAKE LAMOND 69KV	107	98.5	101.7	98.7	102.0	DIANA - PERDUE 138KV CKT 1	See Previous	See Previous
09SP	AEPW	AEPW	HOWELL - KILGORE 69KV	48	96.7	99.6	97.5	100.5	GREGGTON - LAKE LAMOND 69KV CKT 1	Rebuild 3.49 miles with 795 ACSR	1,400,000
09SP	SWPA	SPRM	BROOKLINE - SPRINGFIELD 161KV	323	102.5	105.0	104.1	106.8	BATTLEFIELD - SPRINGFIELD 161KV CKT 1	Replace disconnect switches at Springfield.	60,000
Total Cost											8,140,000

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC % Loading	TC % Loading	Outaged Branch Causing Overload	Comments
03SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	129.4	131.3	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
03SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	116.9	121.1	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	116.8	121.0	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	118.6	120.6	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
03SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	112.0	113.6	50045 DOLHILL7 345 to 53454 SW SHV 7 345 CKT 1	
03SP	AECI	AECI	96079 5FREDTN 161 to 97267 2MARQUA 69 CKT 1	50	99.5	100.3	31510 PILTMA 161 to 97273 2PILOTK 69 CKT 1	
03SP	AECI	AECI	96654 2MILO 69 to 96802 2CLARK 69 CKT 1	36	100.0	100.6	52690 CARTHG 2 69 to 96649 2JASPER 69 CKT 1	
03SP	AECI	AECI	96692 2CLINTN 69 to 96701 2GAINES 69 CKT 1	36	99.5	101.4	96071 5CLINTN 161 to 96108 5OSCEOL 161 CKT 1	
03SP	ENTR	ENTR	98930 8R.BRAS 500 to 98931 6R.BRAS 230 CKT 1	560	111.8	112.5	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
03SP	ENTR	ENTR	98930 8R.BRAS 500 to 98932 3R.BRAS 115 CKT 1	560	103.5	104.1	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
03SP	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	112.1	113.9	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
03SP	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	112.1	113.9	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
03SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	114.6	119.4	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	114.6	119.3	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	103.9	106.8	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
03SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	103.8	106.8	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
03SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	97.1	100.8	50023 CARROLL6 230 to 50126 MESSICK6 230 CKT 1	
03SP	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	36	176.9	186.1	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03SP	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	36	176.8	186.0	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03SP	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	36	145.4	156.1	54033 PITTSB-7 345 to 54037 VALIANT7 345 CKT 1	
03SP	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	36	146.5	155.8	53277 LYDIA 7 345 to 54037 VALIANT7 345 CKT 1	
03FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	156.8	158.7	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
03FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	137.7	139.6	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
03FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	131.7	135.8	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	131.5	135.6	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	128.5	130.6	99162 8MTOLIV 500 to 99163 6MTOLIV 230 CKT 1	
03FA	ENTR	ENTR	98930 8R.BRAS 500 to 98931 6R.BRAS 230 CKT 1	560	103.5	104.1	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
03FA	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	109.0	110.8	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
03FA	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	109.0	110.8	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
03FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	123.2	128.0	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	123.1	127.9	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	111.5	114.5	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
03FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	111.5	114.5	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
03FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	109.0	112.8	50023 CARROLL6 230 to 50126 MESSICK6 230 CKT 1	
03FA	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	60	111.3	117.1	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03FA	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	60	111.2	117.1	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	143.8	145.7	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
03WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	126.8	128.7	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
03WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	122.5	126.6	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	122.3	126.3	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	119.9	122.0	99162 8MTOLIV 500 to 99163 6MTOLIV 230 CKT 1	
03WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	114.5	119.3	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
03WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	114.4	119.2	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	106.5	110.2	50023 CARROLL6 230 to 50126 MESSICK6 230 CKT 1	
03WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	101.0	104.7	50027 CLARN 6 230 to 50126 MESSICK6 230 CKT 1	
03WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	101.7	104.6	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
03WP	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	60	96.7	102.4	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
03WP	ENTR	ENTR	99389 4MURFRE 138 to 99387 3MURF-S 115 CKT 1	60	96.6	102.3	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04AP	AEPW	CELE	53461 WALLAKE4 138 to 50090 IPAPER 4 138 CKT 1	236	98.6	101.9	50045 DOLHILL7 345 to 50046 DOLHILL6 230 CKT 1	Dolet Hills Operating Guide Applied
04AP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	110.0	112.8	97487 4MT.ZION 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	108.7	111.4	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC % Loading	TC % Loading	Outaged Branch Causing Overload	Comments
04AP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	107.1	109.8	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
04AP	ENTR	ENTR	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	206	107.1	109.9	97487 4MT.ZION 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	206	105.7	108.5	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
04AP	ENTR	ENTR	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	206	104.1	106.9	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
04AP	ENTR	ENTR	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	206	101.0	103.8	97487 4MT.ZION 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	206	99.6	102.4	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
04AP	ENTR	ENTR	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	206	98.1	100.8	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
04AP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	107.4	110.7	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	105.5	108.7	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	
04AP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	104.3	107.5	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	
04AP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	101.6	104.9	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	
04AP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	101.0	104.3	97459 4CONROE 138 to 97539 4WDHAVN 138 CKT 1	
04AP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	112.0	115.4	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	110.2	113.4	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	
04AP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	109.0	112.2	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	
04AP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	106.3	109.5	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	
04AP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	105.7	108.9	97459 4CONROE 138 to 97539 4WDHAVN 138 CKT 1	
04AP	ENTR	ENTR	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 1	525	106.4	108.4	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 2	
04AP	ENTR	ENTR	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 2	525	106.4	108.4	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	114.8	117.6	97487 4MT.ZION 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	113.4	116.2	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	111.8	114.6	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	102.6	104.5	97458 4CONAIR 138 to 97461 4LEWIS 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	101.0	103.3	97508 4NAVSOTA 138 to 97522 4TUBULAR 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	116.1	119.5	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	114.3	117.5	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	113.1	116.3	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	110.4	113.6	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	
04AP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	109.8	113.0	97459 4CONROE 138 to 97539 4WDHAVN 138 CKT 1	
04AP	ENTR	ENTR	97522 4TUBULAR 138 to 97453 4DOBBIN 138 CKT 1	112	99.9	102.8	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97522 4TUBULAR 138 to 97453 4DOBBIN 138 CKT 1	112	98.1	100.9	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	
04AP	ENTR	ENTR	97539 4WDHAVN 138 to 97459 4CONROE 138 CKT 1	206	99.5	102.3	97487 4MT.ZION 138 to 97514 4GRIMES 138 CKT 1	
04AP	ENTR	ENTR	97539 4WDHAVN 138 to 97459 4CONROE 138 CKT 1	206	98.2	101.0	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
04AP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	127.1	137.5	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04AP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	127.0	137.4	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04AP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	101.0	111.4	54033 PITTSB-7 345 to 54037 VALIANT7 345 CKT 1	
04AP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	97.9	107.2	53277 LYDIA 7 345 to 54037 VALIANT7 345 CKT 1	
04G	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	136.7	138.6	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
04G	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	125.2	129.6	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04G	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	125.0	129.4	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04G	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	126.1	128.1	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
04G	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	119.8	121.4	50045 DOLHILL7 345 to 53454 SW SHV 7 345 CKT 1	
04G	ENTR	ENTR	98905 6NORTHSD 230 to 98918 6RX BRN 230 CKT 1	462	99.9	100.6	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04G	ENTR	ENTR	98930 8R.BRAS 500 to 98931 6R.BRAS 230 CKT 1	560	121.5	122.1	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04G	ENTR	ENTR	98930 8R.BRAS 500 to 98932 3R.BRAS 115 CKT 1	560	117.5	118.1	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04G	ENTR	ENTR	98931 6R.BRAS 230 to 98905 6NORTHSD 230 CKT 1	462	106.2	106.9	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04G	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	103.0	104.8	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04G	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	103.0	104.8	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
04G	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	120.4	125.5	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04G	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	120.3	125.4	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04G	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	105.7	108.8	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04G	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	105.7	108.8	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC % Loading	TC % Loading	Outaged Branch Causing Overload	Comments
04G	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	103.4	107.3	50023 CARROLL6 230 to 50126 MESSICK6 230 CKT 1	
04G	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	177.0	186.6	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04G	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	176.9	186.5	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04G	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	156.0	165.9	54033 PITTSB-7 345 to 54037 VALIANT7 345 CKT 1	
04G	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	150.9	159.6	53277 LYDIA 7 345 to 54037 VALIANT7 345 CKT 1	
04SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	143.1	145.0	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
04SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	128.6	133.0	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	128.5	132.9	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	129.2	131.2	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
04SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	118.9	120.5	50045 DOLHILL7 345 to 53454 SW SHV 7 345 CKT 1	
04SP	CELE	ENTR	50057 FISHER 4 138 to 99115 3FISHER 115 CKT 1	83	109.0	110.9	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	99.2	100.9	59954 SWPS 5 161 to 59960 SWDISP 5 161 CKT 1	Relieved or Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) Modeled in 09SP
04SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	99.3	100.7	59955 JUNCTN 5 161 to 59969 BRKLINE 5 161 CKT 1	"
04SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	98.3	100.0	59959 BATFLD 5 161 to 59960 SWDISP 5 161 CKT 1	"
04SP	AEPW	AEPW	53549 JACKSNV4 138 to 53588 OVERTON4 138 CKT 1	235	98.9	100.4	53526 CROCKET7 345 to 53637 TENRUSK7 345 CKT 1	Third Party Line Owned by Rayburn Country Electric Co-op
04SP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	97.6	100.9	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	
04SP	ENTR	ENTR	98930 8R.BRAS 500 to 98931 6R.BRAS 230 CKT 1	560	103.2	103.8	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04SP	ENTR	ENTR	98930 8R.BRAS 500 to 98932 3R.BRAS 115 CKT 1	560	103.9	104.4	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04SP	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	109.0	110.8	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
04SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	122.9	128.0	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	122.8	127.9	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	108.6	111.7	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	108.5	111.6	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
04SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	108.0	110.5	99162 8MTOLIV 500 to 99163 6MTOLIV 230 CKT 1	
04SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	192.6	202.2	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	192.6	202.1	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	159.7	168.7	53277 LYDIA 7 345 to 54037 VALIANT7 345 CKT 1	
04SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	158.2	168.5	54033 PITTSB-7 345 to 54037 VALIANT7 345 CKT 1	
04FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	134.5	136.4	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
04FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	128.9	133.0	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	128.7	132.8	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	125.4	127.3	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
04FA	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	120.7	122.2	50045 DOLHILL7 345 to 53454 SW SHV 7 345 CKT 1	
04FA	ENTR	ENTR	98905 6NORTHSD 230 to 98931 6R.BRAS 230 CKT 1	462	101.0	101.7	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04FA	ENTR	ENTR	98930 8R.BRAS 500 to 98931 6R.BRAS 230 CKT 1	560	115.2	115.8	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04FA	ENTR	ENTR	98930 8R.BRAS 500 to 98932 3R.BRAS 115 CKT 1	560	111.5	112.0	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
04FA	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	106.5	108.3	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04FA	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	106.5	108.3	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
04FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	126.4	131.1	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	126.3	131.0	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	109.9	112.9	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	109.9	112.9	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
04FA	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	107.6	111.4	50023 CARROLL6 230 to 50126 MESSICK6 230 CKT 1	
04FA	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	200.4	209.1	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04FA	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	200.3	209.1	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04FA	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	162.2	172.3	54033 PITTSB-7 345 to 54037 VALIANT7 345 CKT 1	
04FA	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	160.0	169.1	53277 LYDIA 7 345 to 54037 VALIANT7 345 CKT 1	

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC % Loading	TC % Loading	Outaged Branch Causing Overload	Comments
04WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	151.5	153.4	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
04WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	132.8	134.7	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
04WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	130.3	134.5	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	130.0	134.0	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	125.9	128.0	99162 8MTOLIV 500 to 99163 6MTOLIV 230 CKT 1	
04WP	CELE	ENTR	50057 FISHER 4 138 to 99115 3FISHER 115 CKT 1	83	102.6	104.3	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04WP	CELE	ENTR	50057 FISHER 4 138 to 99115 3FISHER 115 CKT 1	83	102.5	104.3	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
04WP	AECI	AECI	96089 5JAMESV 161 to 96673 2JAMESV 69 CKT 1	64	99.6	100.2	96089 5JAMESV 161 to 96673 2JAMESV 69 CKT 2	
04WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	122.5	127.4	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
04WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	122.3	127.2	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
04WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	111.2	115.1	50023 CARROLL6 230 to 50126 MESSICK6 230 CKT 1	
04WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	108.5	111.6	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
04WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	108.5	111.5	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
09SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	163.5	165.1	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
09SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	140.3	144.6	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
09SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	142.7	144.6	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
09SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	140.0	144.1	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09SP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	130.3	132.9	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
09SP	CELE	ENTR	50057 FISHER 4 138 to 99115 3FISHER 115 CKT 1	83	124.9	126.6	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
09SP	CELE	CELE	50179 SHOAKS 4 138 to 50154 PINEV 4 138 CKT 1	148	104.8	105.6	50154 PINEV 4 138 to 50158 PVKFTAP4 138 CKT 1	
09SP	CELE	CELE	50179 SHOAKS 4 138 to 50154 PINEV 4 138 CKT 1	148	99.3	100.1	50158 PVKFTAP4 138 to 50179 SHOAKS 4 138 CKT 1	
09SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	126.2	127.8	59954 SWPS 5 161 to 59960 SWDISP 5 161 CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244), Relieved by Selected Upgrades to be Assigned to Study Request
09SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	125.3	126.9	59959 BATFLD 5 161 to 59960 SWDISP 5 161 CKT 1	"
09SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	116.5	117.9	59955 JUNCTN 5 161 to 59969 BRKLINE 5 161 CKT 1	"
09SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	102.5	104.1	52692 SPRGFLD5 161 to 59959 BATFLD 5 161 CKT 1	"
09SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	99.7	101.1	59955 JUNCTN 5 161 to 59956 NICHOLS5 161 CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244), Relieved by Selected Upgrades to be Assigned to Study Request
09SP	AEPW	AEPW	53549 JACKSNV4 138 to 53588 OVERTON4 138 CKT 1	235	109.0	109.8	53526 CROCKET7 345 to 53637 TENRUSK7 345 CKT 1	Contingency Solution Blown Up, Contingency Converged by putting 120 MW at Tenaska Frontier, Third Party Line Owned by Rayburn Country Electric Co-op
09SP	AECI	AECI	96108 5OSCEOL 161 to 96071 5CLINTN 161 CKT 1	123	97.9	100.4	59207 ARCHIE 5 161 to 59240 ADRIAN 5 161 CKT 1	
09SP	AECI	AECI	96692 2CLINTN 69 to 96701 2GAINES 69 CKT 1	36	121.4	123.3	96071 5CLINTN 161 to 96108 5OSCEOL 161 CKT 1	
09SP	AECI	AECI	96701 2GAINES 69 to 96810 2MTZION 69 CKT 1	36	106.6	108.6	96071 5CLINTN 161 to 96108 5OSCEOL 161 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	119.0	120.6	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	114.9	118.0	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	105.0	107.2	97458 4CONAIR 138 to 97462 L523T587 138 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	105.0	107.2	97459 4CONROE 138 to 97462 L523T587 138 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97469 4APRIL 138 CKT 1	206	102.1	105.8	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	206	115.8	118.0	97459 4CONROE 138 to 97462 L523T587 138 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	206	115.8	118.0	97458 4CONAIR 138 to 97462 L523T587 138 CKT 1	
09SP	ENTR	ENTR	97454 4WALDEN 138 to 97514 4GRIMES 138 CKT 1	206	100.8	102.8	Base Case	

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC % Loading	TC % Loading	Outaged Branch Causing Overload	Comments
09SP	ENTR	ENTR	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	206	112.4	114.3	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
09SP	ENTR	ENTR	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	206	108.5	111.5	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
09SP	ENTR	ENTR	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	206	98.3	100.4	97458 4CONAIR 138 to 97462 L523T587 138 CKT 1	
09SP	ENTR	ENTR	97469 4APRIL 138 to 97470 4LFOREST 138 CKT 1	206	98.2	100.4	97459 4CONROE 138 to 97462 L523T587 138 CKT 1	
09SP	ENTR	ENTR	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	206	105.7	107.9	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
09SP	ENTR	ENTR	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	206	102.0	105.0	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
09SP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	107.4	110.4	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	
09SP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	106.1	109.5	97459 4CONROE 138 to 97539 4WDHAVN 138 CKT 1	
09SP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	100.3	103.0	97507 4COLSTTA 138 to 97514 4GRIMES 138 CKT 1	
09SP	ENTR	ENTR	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	206	100.2	102.9	97506 4BRYAN 138 to 97507 4COLSTTA 138 CKT 1	
09SP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	117.3	120.0	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	
09SP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	115.9	119.4	97459 4CONROE 138 to 97539 4WDHAVN 138 CKT 1	
09SP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	109.9	112.3	97507 4COLSTTA 138 to 97514 4GRIMES 138 CKT 1	
09SP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	109.7	112.1	97506 4BRYAN 138 to 97507 4COLSTTA 138 CKT 1	
09SP	ENTR	ENTR	97487 4MT.ZION 138 to 97480 L558T485 138 CKT 1	206	102.4	107.3	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09SP	ENTR	ENTR	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 1	525	121.1	122.4	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 2	
09SP	ENTR	ENTR	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 2	525	121.1	122.4	97513 7GRIMES 345 to 97514 4GRIMES 138 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	125.1	128.3	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	112.2	115.9	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	112.1	115.9	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	111.9	114.5	98107 8RICHARD 500 to 98430 8WEBRE 500 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97454 4WALDEN 138 CKT 1	206	110.9	113.2	97508 4NAVSOTA 138 to 97522 4TUBULAR 138 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	126.0	128.4	97470 4LFOREST 138 to 97539 4WDHAVN 138 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	124.5	128.1	97459 4CONROE 138 to 97539 4WDHAVN 138 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	118.4	120.6	97507 4COLSTTA 138 to 97514 4GRIMES 138 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	118.2	120.5	97506 4BRYAN 138 to 97507 4COLSTTA 138 CKT 1	
09SP	ENTR	ENTR	97514 4GRIMES 138 to 97487 4MT.ZION 138 CKT 1	206	110.7	115.7	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09SP	ENTR	ENTR	97539 4WDHAVN 138 to 97459 4CONROE 138 CKT 1	206	102.6	104.9	97480 L558T485 138 to 97487 4MT.ZION 138 CKT 1	
09SP	ENTR	ENTR	97539 4WDHAVN 138 to 97459 4CONROE 138 CKT 1	206	99.0	102.0	97480 L558T485 138 to 97484 4HUNTSVL 138 CKT 1	
09SP	ENTR	ENTR	98930 8R.BRAS 500 to 98931 6R.BRAS 230 CKT 1	560	114.0	114.6	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
09SP	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	124.9	126.6	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
09SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	132.1	137.2	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
09SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	131.9	137.0	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	119.8	122.7	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
09SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	119.7	122.7	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
09SP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	113.6	116.7	53526 CROCKET7 345 to 97513 7GRIMES 345 CKT 1	Contingency Solution Blown Up, Contingency Converged by putting 185 MW at Tenaska Frontier
09SP	ENTR	ENTR	99197 8P HILL 500 to 99196 5P HILL 161 CKT 1	600	102.9	103.5	99486 8ANO 50 500 to 99487 5ANO 16 161 CKT 1	
09SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	197.7	207.6	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	197.6	207.4	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
09SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	187.4	194.7	53526 CROCKET7 345 to 97513 7GRIMES 345 CKT 1	Contingency Solution Blown Up, Contingency Converged by putting 185 MW at Tenaska Frontier
09SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	179.8	186.6	53526 CROCKET7 345 to 53637 TENRUSK7 345 CKT 1	Contingency Solution Blown Up, Contingency Converged by putting 120 MW at Tenaska Frontier
09SP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	36	158.1	166.6	53277 LYDIA 7 345 to 54037 VALIANT7 345 CKT 1	

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC % Loading	TC % Loading	Outaged Branch Causing Overload	Comments
09SP	ENTR	SWPA	99755 5JONES 161 to 52618 JONESBO5 161 CKT 1	223	111.2	111.8	52600 N MADRD5 161 to 52610 KENNETT5 161 CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244) and Transfer Impact Less than 3%
09SP	ENTR	SWPA	99755 5JONES 161 to 52618 JONESBO5 161 CKT 1	223	102.2	102.8	52610 KENNETT5 161 to 52612 PARAGLD5 161 CKT 1	"
09WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	139.6	141.6	99182 3DANVLL 115 to 99188 3JNSBRO 115 CKT 1	
09WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	130.6	134.9	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
09WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	130.4	134.7	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	128.7	130.7	99166 3HODGE 115 to 99188 3JNSBRO 115 CKT 1	
09WP	CELE	ENTR	50024 CARROLL4 138 to 99167 3RINGLD 115 CKT 1	125	124.8	126.3	50045 DOLHILL7 345 to 53454 SW SHV 7 345 CKT 1	
09WP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	108.9	110.2	59954 SWPS 5 161 to 59960 SWDISP 5 161 CKT 1	Impact Removed by Selected Upgrades to be Assigned to Customer's Previous Contiguous Request (SPP-2001-244), Relieved by Selected Upgrades to be Assigned to Study Request
09WP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	108.3	109.7	59959 BATFLD 5 161 to 59960 SWDISP 5 161 CKT 1	"
09WP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	102.5	103.6	59955 JUNCTN 5 161 to 59969 BRKLINE 5 161 CKT 1	"
09WP	ENTR	ENTR	98905 6NORTHSD 230 to 98931 6R.BRAS 230 CKT 1	462	104.2	104.9	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
09WP	ENTR	ENTR	98930 8R.BRAS 500 to 98931 6R.BRAS 230 CKT 1	560	120.7	121.3	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
09WP	ENTR	ENTR	98930 8R.BRAS 500 to 98932 3R.BRAS 115 CKT 1	560	107.8	108.4	98930 8R.BRAS 500 to 98935 8LAKEOV 500 CKT 1	
09WP	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	112.8	114.6	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
09WP	ENTR	CELE	99115 3FISHER 115 to 50057 FISHER 4 138 CKT 1	83	112.8	114.6	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
09WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	126.2	131.1	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	
09WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	126.1	131.0	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	113.2	116.3	99112 3WINFLD 115 to 99113 6WINFLD 230 CKT 1	
09WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	113.2	116.3	99113 6WINFLD 230 to 99116 6MONTGY 230 CKT 1	
09WP	ENTR	ENTR	99167 3RINGLD 115 to 99168 3SAILES 115 CKT 1	115	105.2	109.5	53277 LYDIA 7 345 to 54037 VALIANT7 345 CKT 1	
09WP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	60	106.7	112.6	53424 LONGWD 7 345 to 99294 7ELDEHV 345 CKT 1	
09WP	ENTR	ENTR	99387 3MURF-S 115 to 99389 4MURFRE 138 CKT 1	60	106.6	112.5	99294 7ELDEHV 345 to 99295 8ELDEHV 500 CKT 1	

Study Year	From Area	To Area	Monitored Branch Over 100% Rate B	Rate B	BC Without Upgrades %Loading	BC With Upgrades %Loading	TC Without Upgrades %Loading	TC With Upgrades %Loading	Outaged Branch Causing Overload	Comments
09SP	SWPA	SPRM	52692 SPRGFLD5 161 to 59969 BRKLINE 5 161 CKT 1	323	102.5	105.0	104.1	106.8	52692 SPRGFLD5 161 to 59959 BATFLD 5 161 CKT 1	