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	MwH Peak Demand Demand	MwH Peak Demand Demand Annualized*	FERC 582 Energy	Est System Load Factor
2002	552,761,642	569,642,179	343,816,582	62.20%
2003	644,301,697	740,389,562	427,998,509	66.43%
2004	811,950,762	833,165,948		

^{*}METC joined 5/1/02 *FE/NIPSCO joined 10/1/03 *Ameren joined 5/1/04

			•	:		2002			
		Dec-02	~1	Annualized		Form 1		"Day 1"	(Basis)
Salaries/benefits	₩	2,216,413	G	26,596,956	₩	24,530,838	63	26,596,956	Annualized
Outside services	6	977,323	↔	11,727,876	↔	8,910,654	↔	8,910,654	Actual
Occupancy	₩	296,001	69	3,552,012	↔	3,214,346	49	3,552,012	Annualized
Insurance	₩	276,336	↔	3,316,032	ક	2,982,254	s	2,982,254	Actual
Supplies/other	G	1,054,251	↔	12,651,012	₩	9,487,711	G	9,487,711	Actual
Taxes	S	64,586	S	775,032	₩	1,248,418	G	1,248,418	Actual
	↔	4,884,910	↔	58,618,920	₩	50,374,221	↔	52,778,005	
Depreciation	↔	1,323,916	₩	15,886,992	₩	14,300,334	↔	15,886,992	Annualized
Amortization	↔	818,252	↔	9,819,024	H	9,819,026	s	9,819,026	Actual
Interest Expense	63	592,389	s	7,108,668	↔	9,399,340	₩	9,399,340	Actual
	€	2,734,557	4	32,814,684	↔	33,518,700	G	35,105,358	
TOTAL	S	7,619,467	8	91,433,604	မှာ	83,892,921		87,883,363	
ress:									
Market Ops	69	79,777	₩	945,582			↔	945,582	
Transmission Planning	છ	260,580	69	3,126,960			↔	3,126,960	
MAPPCOR Contract Expense	_		G	6,054,995			₩	6,054,995	
Total MISO Day 1 Expenses							8	77,755,826	
Load - MWh of peak demand								569,642,179	
Cost/MWh of peak demand							↔	0.1365	
Load - MWh of energy								343,816,582	
Cost/MWh of energy							€9	0.2262	

Midwest ISO Op Expense

Annual Operating Expense

Headcount

December 31, 2002

Admin/Exec	2
Finance/Shared Services	27
Operations	108
Planning	20
IT	54
Legal/Reg	13
Market Ops	3
	227
Less:	
Market Ops	3
Transmission Planning	20
MAPP FTE's	37
Day 1 Headcount	167

Operational Estimate

Fixed Assets January 2002

Operational Date for Day 1 was February 1, 2002

Balance as of

	_Jai	nuary 31, 2002
Land	\$	1,952,457
Buildings and Improvements		22,050,603
Furniture and Fixtures		2,281,957
Computer Hardware		12,220,990
Computer Software		43,546,144
Telecommunications Equipment		5,794,169
Total Assets		87,846,320
Deferred Regulatory Asset		58,914,154
Total Start-up Costs	\$	146,760,474

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V DATA																													LATER MOVED TO 224 FOR FILING														
ECI RA	FORM I	Line	က	5	2	5	140	27	5	4 6	7 6	4 2	24	24	24	25	25	50	8	8	30	46	46	20	29	20	29	29	17	707	20	22	25		3	23	3	8	25	3	3.	8	•
TANK DATA	rorm 1	Page	110	110	110	110	110	110		5 5	2 5	2 7	2	110	110	110	110	110	110	110	110	110	110	110	111	111	111	11	112	112	112	112	112		113	113	112	112	112	112	112	112	
		12/31/2002	19,520,163.62	(11,838,294.75)	(134,994.08)	(2,470,860.69)	(1,509,026,42)	20.567.295.18	224 038 87	57 279 14	677.10	077.19	(1,715,200.09)	3,008,887.02	(4,613.80)	9,442,020.22	39,028.29	1,575,003,10	6,246.51	953,531,30	443,505,64	1,049,536.60	1,169,633,34	5,722,524.00	529,687,50	1.334,896.78	58,296,781.90	(9,819,025.68)	(100,000,000.00)	1	(864,369.20)	372,731.00	(21,958,838.65)	(60,668,105,53)	(59,802,358,53)	(865.747.00)	(68.705.80)	(261,495.26)	(6.516.508.95)	(1.893,495.84)	(1.115,391.18)	(286,608.00)	
		ACUVITY (97 764 664 664	(3/,/31,631.92)	(11,838,294.75)	(134,994.08)	(818,018.43)	(1,509,026.42)	(13,102,777,24)	224 038 87	57 279 14	00 av	73 038 511 20	(47.11.00.00.0)	3,008,887.02	(3,370.82)	(7,575,456.44)	310,322.75	1,236,614.62	(451,540.79)	948,169.23	443,505.64	(1,404,526.93)	505,770.91	5,722,524.00	(56,250.00)	(57,579,257.50)	58,296,781.90	(9,819,025.68)	•	261,495.26	80,074.54	(39,588.00)	(6,666,507.51)	493,723.80	197,641.47	296,082.33	(35,745.87)	239,400.58	(4,452,678.02)	(1,893,495.84)	(1,115,391.18)	(286,608.00)	
	12/21/2001	14/31/4001	57,251,785.54	•	•	(1,652,842.26)	•	33,670,072.42	•	•	520 11	2 223 250 55	2,550,500		(1,242.98)	17,017,476.66	705.54	3,310,388.48	457,787.30	5,362.07	•	2,454,063.53	663,862.43	•	585,937.50	58,914,154.28	•	•	(100,000,000.00)	(261,495.26)	(944,443.74)	412,319.00	(15,292,331.14)	(61, 161, 829.33)	(00'000'000'09)	(1,161,829.33)	(32,959.93)	(500,895.84)	(20,631,030.93)		•	ı	
	Account	Construction	10050 Application and an article of the designation	10000 Acculturated provision for dep	10860 Accumulated provision for dep	10870 Accumulated provision for dep	10880 Accumulated provision for dep	12410 Ohe Group Investment	12420 SERP Investment	12421 Plan 457 Investment	13110 Petty Cash	13120 Bank One Checking	13125 Cash Denosite for Engineering	19129 Cash Deposits for Engineering	13150 Flex Account	13170 Restricted Cash (Credit Depos	13400 Deposits	14200 Customer accounts receivable	14310 Employee receivable	14320 Sales tax receivable	14330 Other accounts receivable	16510 Prepaid Insurance	16520 Other Prepayments	17300 Accrued utility revenue	18100 Unamortized debt expense - 20	18230 Deferred regulatory asset - C	18235 Deferred regulatory asset - P	18236 Deferred regulatory asset - A	22100 Bonds - 2012	22400 Other long-term debt	22410 IDFA Note - long term	22600 Unamortized discount on long-	22700 Obligations under capital lea	22800 Deferred revenue	10A Settlement	Other	23110 IDFA Note - short term	23120 NCSC - short term	23200 Accounts Payable	23510 Customer deposits - generatio	23520 Customer deposits - facility	23610 Property tax accrual	
C	C	os	t (Ca	ase	e																														3	-3	54	Ļ				

38	38	39	44	44	44	44	44	4	44	28	28	44	44	44	45	37	37	53	53	5	7	7	8	7	7
112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	113	113	113	110	110	110	110	110
(20,783.47)	(1,701.90)	(849,671.85)	•	(2,656,773.12)	(543,803.64)	(1,644,024.86)	(0.02)	(30,141.02)	(73,844.63)	(224,038.89)	(57,279.14)	(209.10)	(0.01)	•	(2,843,541.48)	(23,811.00)	(9,321,515.36)	(60,840.86)	(79,401.00)	(1,942,570.07)	523,235.32	13,012,919.71	61,172,915.29	8,165,925.41	4,859,786.79
(19,885.90)	(1,632.85)	(103,022.19)	3,684.04	(1,039,016.52)	(13,348.61)	15,621,035.38	•	(13,464.90)	19,278.37	(80,374.85)	(57,279.14)	(511.65)	(0.05)	288.00	(2,505,704.36)	•	7,678,484.64	(56, 162.64)	(79,401.00)	(1,942,570.07)	523,235.32	10,267,700.84	59,673,476.81	8,165,925.41	4,859,786.79
(897.57)	(69.05)	(746,649.66)	(3,684.04)	(1,817,756.60)	(530,455.03)	(3,206,860.24)	(0.02)	(16,676.12)	(93,123.00)	(143,664.04)	•	302.55	0.04	(288.00)	(3,371,037.12)	(23,811.00)	(17,000,000.00)	(4,678.22)	•	•		2,745,218.87	1,499,438.48	•	•
23650 Accrued State Sales Tax	23655 Accrued Local Sales Tax	23700 Interest accrued	24220 Accrued Payroll	24225 Accrued Bonus	24230 Accrued Vacation and Holiday	24250 Other Current and Accrued Lia	24260 Withholdings - taxes	24265 Flex account withholdings	24270 Accrued liabilities-benefits	24275 SERP Liability	24276 Plan 457 Liability	24280 401k withholdings	24290 401k match	24295 Garnishments	24300 Obligations under capital lea	25305 Customer deposits - long term	25310 Customer deposits - credit as	25320 Deferred rent	25330 Deferred compensation - direc	25340 Reserve for disputed amounts	35203 Leasehold Improvements-Transm	35301 Computer Hardware-Transmissio	35303 Computer Software-Transmissio	35307 Telecommunications Equipment-	35311 Computer Hardware-Transmissio

22 of	22				Exhibit 4			Midwest ISO Accounts
124			I		(25:00)	(0.00)		
71	Aconina		4 0	7	(00.104,024.00)	(624, 825, 90)	•	46695 MADD MCN Income
0	í		77	41.	(3,244,716.00)	(3,244,716.00)	•	456/0 MAPP Transmission - AL (alloc
e c			0	114	(125,711.64)	(125,711.64)	•	45650 Training Income
ay			7	114	(435,040.98)	(435,040.98)	•	45645 Engineering Studies Income
			7	114	(18,266.67)	(18,266.67)	•	45640 Miscellaneous Income
			7	114	(197,641.46)	(197,641.46)	•	45635 Scheduel 10A
			7	114	(73,783,270.85)	(73,783,270.85)	•	45630 Schedule 10
			7	114	(54,000.00)	(54,000.00)	•	45620 Dues
		a/c on Form 1	2	114	(180,000.00)	(180,000.00)	•	45610 Membership
		= show in diff	7	114	(410,736.00)	(410,736.00)	•	45130 MAPP Reliability - Sublease
			7	114	(65,868.00)	(65,868.00)	•	45120 MAPP Reliability - Admin
			2	114	(933,912.00)	(933,912.00)	•	45110 MAPP Reliability - DBMR
			62	117	488,408.36	488,408.36		43130 Interest expense - other
			62	117	1,347,269.35	1,347,269.35	•	43120 Interest expense - Capital Le
			22	117	95,838.00	95,838.00	•	42800 Amortization of debt discount
			56	117	40,573.97	40,573.97	•	42720 Interest on long-term debt -
			56	117	8,109,615.90	8,109,615.90	•	42710 Interest on long-term debt -
			38	117	(3,300.00)	(3,300.00)	•	42110 Gain on disposition of proper
		-	35	117	(63,855.89)	(63,855.89)	•	41940 Interest Income - Tax Refund
			35	117	(568,320,01)	(568.320.01)	•	41930 Interest Income - One Investm
			35	117	(2,613,41)	(2 613 41)	•	41920 Interest Income - Sweep
			25	- - -	120.90	120.30	•	41010 Interest Income - Checking
			3 6	† *	420.06	420.06	•	40000 Taxes - Mil State Sales Tax 40858 Taxes - CT DI Local Sales Tax
			<u>5</u>	4 4	801,455.72	601,455.72	•	40620 Taxes - FICA, Unemployment
			13	114	385,961.70	385,961.70	•	40810 Taxes - property
			12	41.	(1,334,896.78)	(1,334,896.78)	•	40740 Regulatory credits
			=======================================	114	9,819,025.68	9,819,025.68	•	40730 Regulatory debits
			ဖ	114	2,327,044.85	2,327,044.85	•	40370 Depreciation Expense - Genera
			9	114	11,973,288.83	11,973,288.83	•	40350 Depreciation Expense - Transm
			7	110		(520,715.55)	520,715.55	39815 Network Equipment-General Lea
			2	110	425,031.75	141,604.62	2,103,427.13	39803 Computer Software-General
			8	110	1,504,847.60	366,253.26	1,138,594.34	39801 Computer Hardware-General
			7	110	520,715.55	520,715.55	٠	39710 Communication Equipment - Gen
			7	110	559,367.57	482,323.25	77,044.32	39700 Communciation Equipment - Gen
			7	110	20,255.00		20,255.00	39110 Office Furniture and Fixtures
			7	110	2,627,986.20	401,230.02	2,226,756.18	39100 Office Furniture and Fixtures
			2	110	Ī	(1,682,463.60)	1,682,463.60	39013 Leasehold Improvements-Genera
			7	110	15,776,743.50	(45,385.00)	15,822,128.50	39011 Buildings-General Leased
			8	110	6,214,349.05	1,920,627.88	4,293,721.17	39003 Leasehold Improvements-Genera
			8	19	1,800,000.00	(152,457.48)	1,952,457.48	38900 Land and Land Rights - Genera
			'	2		419.906.50	(419,900,00)	35399 MAPP Deferred Credit - Pensio

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419,906.50

(419,906.50)

35399 MAPP Deferred Credit - Pensio

٠,	5,109.17 16,705,871.56	5,109.17 16,705,871.56	114 114	4 4	5,109.17	91000 92010
	3,172,161.79	3,172,161.79	114	4	3,172,161.79	92020
	129,950.00	55,099.75 129,950.00	4 4 4 4	4 4	55,099.75 129.950.00	92022 92025
•	890, 169.33	890,169.33	114	4	890,169.33	92030
	167,418.70	167,418.70	114	4	167,418.70	92040
• 1	(10,627.23)	(10,627.23)	4 4	4 4	(10,627.23)	92060
	(7 262 17)	7,000.70	4 4	4 -	249,558.73	92110
	(4,303.11)	(4,303.17)	4	4	(2,363.17)	92111
,		,			. ,	02113
	248,723.87	248,723.87	114	4	248.723.87	92115
	280,206.19	280,206.19	114	4	280,206,19	92120
,	46,215.39	46,215.39	114	4	46.215.39	92121
•	76,832.84	76,832.84	114	4	76,832.84	92130
•	117,262.34	117,262.34	114	4	117,262.34	92140
•	165,651.46	165,651.46	114	4	165,651.46	92142
	163.94	163.94	114	4	163.94	92144
	4.75	4.75	114	4	4.75	92146
	557.90	22.90	114	4	557.90	92149
•	1,179,745.85	1,179,745.85	114	4	1,179,745.85	92150
,	1,473.14	1,473.14	114	4	1,473.14	92154
	751.89	751.89	114	4	751.89	92156
1	156.35	156.35	114	4	156.35	92157
	13,661.53	13,661.53	114	4	13,661.53	92168
•	40,094.99	40,094.99	114	4	40,094.99	92170
•	41,476.42	41,476.42	114	4	41,476.42	92179
•	16,399.90	16,399.90	114	4	16,399.90	92180
•	12,210.14	12,210.14	114	4	12,210.14	92187
•	1,064,750.27	1,064,750.27	114	4	1,064,750.27	92190
•	4,402,692.10	4,402,692.10	114	4	4,402,692.10	92191
	624,363.55	624,363.55	114	4	624,363.55	92192
	33,469.45	33,469.45	114	4	33,469.45	92193
•	1,895.93	1,895.93	114	4	1,895.93	92195
•	47,094.96	47,094.96	114	4	47,094.96	92196
	9,202.97	9,202.97	114	4	9,202.97	92197
	903.10	903.10	114	4	903.10	92198
•	2,698,416.55	2,698,416.55	114	4	2,698,416.55	92310
	2,024,829.46	2,024,829.46	114	4	2,024,829.46	92320
•	68,692.00	68,692.00	114	4	68,692.00	92340
	148,832.11	148,832.11	114	4	148 832 11	0224E

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92360 Management Consultants	•	2.659.006.41	2 659 006 41	114	14	2 659 006 41	02360	
92365 Management Consultants Exp -	•	13.760.85	13 760 85	114	4	13 760 85	92365	
92375 Temporary Help		737,228.59	737.228.59	4	4	737,228 59	92375	
92380 Security	•	208,705.23	208,705.23	114	4	208.705.23	92380	
92385 Payroll Service	•	20,793.70	20,793.70	114	4	20.793.70	92385	
92395 Contractor	•	330,388.95	330,388.95	114	4	330,388.95	92395	
92405 Property Insurance	٠	141,425.25	141,425.25	114	4	141,425.25	92405	
92410 General Liability/Reps and Wa	•	1,878,888.29	1,878,888.29	114	4	1,878,888.29	92410	
92440 Automotive	ı	553.36	553.36	114	4	553.36	92440	
92450 Directors & Officers Liabilit	•	165,810.00	165,810.00	114	4	165,810.00	92450	
92460 Workman's Compensation		41,504.90	41,504.90	114	4	41,504.90	92460	
92470 Excess Liability	•	740,807.85	740,807.85	114	4	740,807.85	92470	
92480 IN Surplus Lines Tax	•	9,733.72	9,733.72	114	4	9,733.72	92480	
92490 Insurance - Crime Coverage	•	3,048.28	3,048.28	114	4	3,048.28	92490	
92500 Injuries and Damages	•	482.52	482.52	114	4	482.52	92500	
92610 Employee Benefits	•	1,403,254.95	1,403,254.95	114	4	1,403,254.95	92610	
92615 Employee Benefits - SERP	•	166,488.25	166,488.25	114	4	166,488.25	92615	
92620 401k	ı	1,607,919.92	1,607,919.92	114	4	1,607,919.92	92620	
92630 Officer Flex Spending		35,357.99	35,357.99	114	4	35,357.99	92630	
92640 Education Assistance/Outside	•	190,212.61	190,212.61	114	4	190,212.61	92640	
92650 Materials/Books	•	1,247.48	1,247.48	114	4	1,247.48	92650	
93016 Conventions and seminars	•	16,312.75	16,312.75	114	4	16,312.75	92670	
91300 Marketing, PR Expense	•	84,251.58	84,251.58	114	4	84,251.58	93015	
93015 General Advertising Expenses	•	470.25	470.25	114	4	470.25	93015	
91300 Marketing, PR Expense	•	15,359.00	15,359.00	114	4	15,359.00	93021	
93035 Directors Fees	•	450,062.50	450,062.50	114	4	450,062.50	93022	
92145 Meals & Entertainment-Directo	•	1,579.88	1,579.88	114	4	1,579.88	93023	
92159 Travel-Directors	•	81,903.73	81,903.73	114	4	81,903.73	93024	
93025 Miscellaneous General Expense	•	3,420.30	3,420.30	114	4	3,420.30	93025	
92170 Memberships/Dues	•	16,712.00	16,712.00	114	4	16,712.00	93026	
93110 Operating Lease-Building	•	1,863,772.33	1,863,772.33	114	4	1,863,772.33	93110	
93130 Operating Lease-Furniture	•	2,626.18	2,626.18	114	4	2,626.18	93130	
93140 Operating Lease-Computers	•	46,516.84	46,516.84	114	4	46,516.84	93140	
93150 Operating Lease-Copier	•	136,793.86	136,793.86	114	4	136,793.86	93150	
93510 Services for building	•	118,499.61	118,499.61	114	Ω.	118,499.61	93510	
93520 Utilities		444,018.73	444,018.73	114	22	444,018.73	93520	20
93530 General Maintenance	•	602,118.82	602,118.82	1 14	2	602,118.82	05 02230	ハム
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Southwest Power Pool (SPP)

EGSI TTC Cost Case 3-359

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2005

Exhibit 4

Enhance Energy Scheduling Enhance Energy Scheduling Enhance Energy Scheduling Enhance Energy Scheduling Control Room Infrastructure Computer Room Expansion Computer Room Expansion ransmission Planning EMS Implementation EMS Implementation **EMS Implementation EMS Enhancements** EMS Enhancements EMS Implementation **EMS Enhancements EMS Enhancements EMS Enhancements** EMS implementation **EMS Implementation EMS Enhancements** EMS Enhancements **EMS Enhancements** Project **Business Continuity** EMS Enhancements **Business Systems** Enterprise Security Enterprise Security Enterprise Security Market Systems Market Systems Market Systems **Market Systems** Administration Administration Administration Administration OASIS OASIS OASIS Fransmission Sei OASIS Fransmission Sei OASIS Transmission Ser Fransmission Sei ransmission Se ransmission Sei Function SP Support **ISP Support ISP Support** TSP Support Management Management Management Management Management Reliability **Reliability** Reliability Market Market Market Market Split Split Split Split Spiit **Ending Cost** 15,932,379 .983,505 200,000 177,599 122,314 3,040,800 .251,550 298,000 77,150 ,715,754 596,130 586.400 180,876 338.842 166,250 164.041 154,208 46,600 134.322 117,130 108,425 03,315 00,00 92,022 85,241 83,630 82,686 78,063 221,641 62,371 105,400 68,798 63,962 61,843 12/31/2003 55,031 51,451 57.287 Life (Yrs) 5 Sequel Server Licenses 2000 Editio OASIS replacement server/peripheral 2 chillers, handlers and data mates Firewall Servers (4) 11376-11380 Market Settlement Software Software - Market Settlemnt Market Settlement Software Modular Furniture for Offices Redundant Network Router Description an Server (SPPALPHA) enovate security center Video Display Hardware ESCA - Compaq Project GENESYS Subsystem **ESCA - EMP Project** ESCA - EMP Project Hardware/Software Deposit on Cubicles Microsoft Licenses Oasis Automation Modular Furniture Oasis Automation agging software Oasis Automation Firewall Software **ESCA Software** rakR Software **EMS Software Cutover Project** rakR Software JTAG Software **DASIS Firewall MOS Project** New Chillers PTI Software Core Switch Hardware **Hardware** OASIS OAT Location Backup Site- AREC New Cubicles on 9 Scheduling agent Scheduling agent Scheduling agent Scheduling agent Computer Room Computer Room Computer Room Computer Room Computer Room Felecomm Room Scheduling Agent Computer Room Computer Room Computer Room Computer Room Computer Room Computer Room Security Center Computer Room Computer Room Computer Room Computer Room Computer Room Computer Room Security Center Security Center Computer Room Chamberlin **EMS Project** C. Monroe C. Monroe Operations C. Monroe C. Monroe B. Gibson 7th Floor Software 9th Floor oonstand NosserDate Acquired Number 1376-1138 10052 10446 10526 11086 11385 11892 11079 11808 10095 11259 n/a 10231 10528 11020 ₽ 28-Dec-00 31-Dec-01 31-Dec-03 01-Oct-97 21-Nov-00 04-Mar-98 01-Oct-96 29-Jun-01 13-Dec-01 22-Aug-01 17-Dec-01 01-Jan-01 17-Dec-01 24-Aug-98 01-Mar-98 22-Aug-01 23-May-01 31-Dec-02 18-Sep-03 25-Feb-02 01-Jan-92 15-Aug-02 25-Jun-98 27-May-98 01-Sep-99 10-Apr-99 01-May-99 01-Jan-01 17-Dec-01 10-Aug-01 30-Dec-02 24-Apr-01 18-Apr-02 01-Jan-97 24-Oct-01 01-Dec-00 28-Mar-02 5-Mar-02 01-Oct-96 26-Apr-99 01-Mar-01

Southwest Power Pool, Inc.

Fixed Assets and Depreciation as of 12/31/2003

Exhibit 4

Fixed Assets and Depreciation as of 12/31/2003

Southwest Power Pool, Inc.

	Project	EMS Enhancements	EMS Enhancements	EMS Enhancements	EMS Enhancements	Administration	Administration	Administration	Computer Boom Expansion	Control Room Infrastructure	Control Room Infrastructure	Control Room Infrastructure	Business Continuity	Administration	FMS Enhancements	FMS Implementation	Business Continuity	EMS Implementation	Administration	EMS Enhancements	Market Systems	Market Systems	EMS Enhancements	Transmission Planning	EMS Enhancements	EMS Enhancements	EMS Enhancements	Computer Room Expansion	Enhance Energy Scheduling	EMS Enhancements	Administration	Market Systems	Control Room Infrastructure	OASIS		AEP Project	Market Systems	C (Co 9	st 1 c	Ca of	Control Room Infrastructure + 6 6 9
	Function	Re	_		_	_	_	_	Split	iids:	Split	Split	Reliability	Management	Split	Split	Reliability	Reliability	Management	Reliability	Market	Market	Split	Reliability	Reliability	Reliability	Reliability	Split	TSP Support	Split	Management	Market	Split	Transmission Sel	Market	Transmission Ser	Market	Market	Management	Solit	ild.	TSP Support
12/24/2003	Ending Cost	45.920	44,809	44,808	44.808	43,333	41.265	41,097	41.051	40.841	40.836	40 155	39.714	39.270	37,995	36,500	35,417	35,000	34,039	33,550	32,524	32,524	32,301	31,000	30,138	30,138	29,889	29,765	29,000	28,790	27,488	27,374	26,987	26,831	26,200	26.107	25,366	25,366	24.985	24 917	24.495	23,965
	Life (Yrs)		က	က	ო	ĸ	\$	'n	m	, m	, ru	m	, m	· Ko	ო	m	က	ო	ო	က	က	က	က	က	က	က	က	က	ဗ	က	2	က	2	ო	5	ო	က	က	ო	· er	, uc	o vo
	Description	TrakR Software	PowerEdge 6650 2.5 G Server	PowerEdge 6650 2.5 G Server	PowerEdge 6650 2.5 G Server	Balance on cubes for 8th floor	Audio System	HID Door Reader System	A/C Units in Comp. Room	Telephone System	Consoles for Sec. Center	Digital Voice Recorder	Nokie Firewall for Backup Site	deposit on 8th floor cubicles	Sequel Server Software	UPS	Back Up Site Route at AREC & Maint	ESCA Software	Dell PowerVault 220S Server	Free Flow Software	Dell EMC DAE2 Disk array Encl.	Dell EMC DAE2 Disk array Encl.	SPPNET Replacement Router	Forecasting Program-Engineering	INET Routers	INET router	Tagging Software	HP Network Analyzer-Advisor	Compaq-runs setup/integra.	Drive Array	Office Panels	Compaq Testing System CPU	raised floor/carpeting for comp room	Oasis Automation	2 consoles - Market Ops	Stancil Voice Logger	Dell EMC SAN Array	Dell EMC SAN Array	Corporate Server	A/C Units in Comp. Room	Fire Detection System	Consoles
	Location	C. Monroe	ESCA Office	ESCA Office	ESCA Office	8th Floor Furniture	6th Floor - Training	Door Control System	Security Center	Computer Room	Security Center	Computer Room	Back-Up Site-AREC	8th Floor Furniture	Computer Room	Computer Room	Telecom Room	C. Monroe	_	C. Monroe	ESCA Office	ESCA Office	Telecom Room	9th Floor	Telecom Room	BackUp Site - AREC	C. Monroe	A. Rodriquez	RTTOSS system	Computer Room	9th Floor	COSMOS Project	Security Center	Computer Room	Security Center	Ohio Office	ESCA Office	ESCA Office	Computer Room	Computer Room	7th Floor	Scheduling Agent
	CIFIS	Ø	ပ	ပ	ပ	Ľ	ပ	ပ	ပ	ပ	ш	ပ	ပ	L	S	ပ	ပ	S	ပ	တ	ပ	ပ	ပ	တ	ပ	ပ	တ	ပ	ပ	ပ	L ·	ပ	L.	s i	ш.	ပ	ပ	ပ	ပ	ပ	L	ш
<u>0</u>	I Number		11932	11933	11951	n/a	11869	11204		10192	10388	11128	11762	n/a		10325	11316		11397		11931	11930	11051		11052	11053	1	10358		11917	10786	11177		,	n/a	10876	11945	11944	10190	10033	11075	10974
	Date Acquired Number	04-Jun-98	20-Nov-03	20-Nov-03	20-Nov-03	31-May-02	19-Jun-03	18-Sep-01	24-Mar-97	01-Jan-97	31-Jul-97	09-Jul-01	8-May-03	18-Apr-02	01-Jun-00	30-Oct-97	19-Aug-02	30-Mar-98	2/14/2003	06-Aug-98	20-Nov-03	20-Nov-03	23-Apr-01	01-May-00	23-Apr-01	23-Apr-01	14-Oct-98	27-Feb-96	15-Mar-02	22-Oct-03	29-Nov-99	01-Sep-01	11-Apr-01	58-Jun-83	25-Sep-02	01-Apr-00	20-Nov-03	20-Nov-03	01-Oct-98	01-Feb-97	24-Apr-01	01-Dec-00

Exhibit 4

Fixed Assets and Depreciation as of 12/31/2003

	Project	EMS Enhancements	EMS Enhancements	Market Systems	Operating Reserve Sharing	Operating Reserve Sharing	EMS Enhancements	Transmission Planning		EMS Enhancements	Computer Room Expansion	Enterprise Security	EMS Enhancements	_	EMS Enhancements	Operating Reserve Sharing	Operating Reserve Sharing	EMS Enhancements	Control Room Infrastructure	Administration	Enhance Energy Scheduling	Control Room Infrastructure	Computer Room Expansion	Enterprise Security	Computer Room Expansion	Business Systems	Business Systems	Computer Room Expansion	Administration	Administration	Control Room Infrastructure	Administration	OASIS	Computer Room Expansion	Computer Room Expansion	5 T	TC	Computer Room Expansion a O Hi	os	st C)a	se
	Function	Split	Split	Market	Reliability	Reliability	Reliability	Reliability	Transmission Sel	Reliability	Split	Split	Split	Transmission Sel	Reliability	Reliability	Reliability	Split	Split	Management	TSP Support	TSP Support	Split	Split	Split	Management		Split	Management	Management	Split	Management	Transmission Sel	Split	Split	Split	Split	Split	Split	_	TSP Support	
12/31/2003	Ending Cost	22,775	22,350	22,327	22,248	22,248	22,093	21,400	21,063	21,000	20,938	20,881	20,858	20,610	20,596	20,453	20,453	20,210	20,206	19,228	18,888	18,701	17,885	17,726	17,718	16,925	16,925	16,916	16,738	16,527	16,154	15,148	15,000	14,643	14,643	14,429	14,429	14,418	14,273	14,166	14,056	14,000
-	Life (Yrs) Er	က	ო	ო	က	ო	ო	ღ	ო	ო	2	က	က	က	ო	က	ო	ဗ	က	လ	ო	2	ო	5	5	ო	ო	S.	5	2	က	S.	က	ო	ო	ო	ო	S.	ო	5	က	ო
	Description	5 PowerEdge 1650 Srvrs (11282-286)	New Tape Backup System & Tapes	Software/Accessories	Operating Reserve Servers	Operating Reserve Servers	ES40	MUST Licenses	OASIS Enhancements	Nostradamus Software	Balance on chillers, handlers, etc.	2-Cisco Pix Firewalls(11272& 11273)	Tape Backup System	OASIS Software	150 user license ACE server software	SUN Workstation	SUN Workstation	Dial Up Router (repl. MCI RLN)	Control Center Phone System	SPP video conference phone equip.	JTAG Workstation	Comfort Systems	3 servers (11266;11267;11268)	Door Access Control System	Raised Flooring	PowerEdge 2650 Server - Accing.	PowerEdge 2650 Server - FTP	Raised Floor	Bal. On 12th floor furnishings (8 sets)	Cubical Offices	harris rf/ssb radio	Dep. On 8 sets of furniture	MUST Licenses - Engineer	Cold Fusion Software & Licenses	Cold Fusion Server & licenses	Data Base Server	Data Base Server	Fire Suppression System	LAN Mgmt. Sys CiscoWorks	Conference Room Chairs	JTAG Redundant Server	Router
	Location	Computer Room	Computer Room	ESCA Office	Computer Room	Computer Room	EMS Upgrade Computer	Software	Software	Computer Room	Computer Room	Computer Room	Computer Room	Computer Room	Operations	R. Wheeler	Computer Room	Computer Room	Computer Room	Telecom Equip.	B. Gibson	Sch. Agent	Computer Room	12th Floor Office	Scheduling Agent	Computer Room	Computer Room	Scheduling Agent	12th Floor Office	6th Floor	Security Center	12th Floor Office	Computer Room	Computer Room	Computer Room	Computer Room	Computer Room	Computer Room	R. Turner	9th Floor	Computer Room	Xerox Room
	C/F/S	ပ	ပ	တ	ပ	ပ	ပ	တ	ဟ	ဟ	u.	O IS	ပ	တ	ဟ	ပ	ပ	ပ	ပ	ıL	ပ	ıL	ပ က	щ	u.	ပ	ပ	ш	щ	ıL	ပ	ш	ဟ	တ	တ	ပ	ပ	ıL	ဟ	ш.	ပ	ပ
9	1 Number	11282-86	11382	11948	10369	10370	11141				n/a	1272-1127	11918		n/a	10620	10621	11383	10374	11261-65	10355		11266-68	n/a	11140	11895	11896	10973	n/a	11039	10092	n/a				11172	11173	10076	n/a		10783	10525
	Date Acquired Number	3-Jun-02	1/16/2003	20-Nov-03	07-Apr-99	07-Apr-99	20-Jul-01	24-Jul-01	24-Oct-01	01-Jun-99	26-Apr-02	22-May-02	22-Oct-03	01-Mar-99	9-Apr-02	01-Feb-96	01-Feb-96	31-Dec-02	01-Jul-97	10-Apr-02	10-Apr-99	14-Feb-02	22-Apr-02	27-Dec-02	01-Jul-01	1-Oct-03	1-Oct-03	01-Dec-00	18-Dec-02	20-Mar-01	01-Jun-91	15-Nov-02	01-Sep-99	31-Dec-02	1/9/2003	07-Aug-01	07-Aug-01	01-Feb-97	22-May-02	09-Nov-01	31-Dec-99	01-Jan-93

Exhibit VGC-6 2005 TTC Cost Case Page 93 of 124

Computer Room Expansion Computer Room Expansion

Computer Room Expansion

AEP Project

Fransmission Sel

Administration

Management

Computer Room Expansion

Enterprise Security

Split

10,260 10,000 10,000

Market Systems Market Systems

Market Market Fransmission Planning

Reliability

9,962

9,809

Computer Room Expansion Computer Room Expansion

Enterprise Security

Administration

Management

10,704

10,609 10,305 10,304

Southwest Power Pool, Inc.

uthwest Power Pool, Inc.	Power	Pool	', <i>I</i> nc.	Fixed Assets and Depreciation as of 12/31/2003	eciation a	s of 12/31/	2003	
ID 1-Jul-00 1-Jul-00 1-Jun-02 1-Feb-97 1-	11041 11041 1274-1127 10546 10616 10618 11915	CF 19 & C C C C C C C C C C C C C C C C C C	Location Computer Room AREC Redundancy Proj. Computer Room S. Venable - home K. Bates A. Rodriquez Computer Room	Description Cold Fusion Software Server & Peripherals 5 Cisco Switches(11274-11278) Workstation Workstation Seq. Database Cluster Server Seq. Database Cluster Server	Life (Yrs) 3 3 3 3 3 3 3 3 3	12/31/2003 Life (Yrs) Ending Cost 3 13,663 3 13,625 3 13,594 3 13,594 3 13,594 3 13,594 3 13,594 3 13,594	Function Split Reliability Busines Split Compu Management Adminis Transmission Se OASIS Split IT Archit Split Compul	Project Computer Room Expansion Business Continuity Computer Room Expansion Administration 31 OASIS IT Architecture Computer Room Expansion Computer Room Expansion
Mar-02	5071-	ه ۱۱ د	COSMOS Project Security	Oracle Server (20 seat) Camera Equip.	വയ	13,499 Mark 13,096 Split	Market Split	Market Systems Enterprise Security

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	Life (Yrs)	m	m	, cr) e	» «	. ") (י ר	, (9 L	n n	o (, c	,	״ מ	י נ	ന	, rc	m) m	er;	m	m) m	, w	m	ო	S.	ო	ო	ო	ო	ო	ო	5	m	т	· m	· ea	m	· C
	Description	Cold Fusion Software	Server & Peripherals	5 Cisco Switches(11274-11278)	Workstation	Workstation	Workstation	Sed Database Cluster Server	Sed, Database Cluster Server	Oracle Server (20 seat)	Camera Found	ESCA Software	PowerEdge 2650 Senier	Dell PowerEdge 2650 Coner Hope	Dell PowerEdge 1650 Sever-Hope	Software for Load Balancers	Raised Flooring	Redundant Router for OATI system	Office Panels	Veritas Net Backup Svs.	Tape Backup Svs. & Tapes	Workstation	Workstation	Workstation	4.3 GB UW Drive	Two SPP Routers	Mailsweeper	Firewall - Gateway	Balance on 28 Tables & Carts	Verisign OnSite Certs & Seats (322)	Dell Power Vault 220S Server-Hope	Software for New BackUp System	Dell PowerEdge 1750 Server	Dell PowerEdge 1750 Server	3 Roguewave Soft. Licenses	Raised Floor	VSAT Software	Dell PowerVault 20XS	DreamWeaver & Cold Fusion SW & L	Voice Gate Voice Mail System	Two SPP Spare Router	Deposit on 28 tables & 2 carts
		Computer Room	AREC Redundancy Proj.	Computer Room	S. Venable - home	K. Bates	A. Rodriquez	Computer Room	Computer Room	COSMOS Project	Security	C. Monroe	HR-Server	Computer Room	Computer Room	Computer Room	BackUp Site - AREC	OATI-Plymouth, MN	7th Floor	Software	Computer Room	T. Mallinger	K. McArthur	Backup Site - AREC	Computer Room	Computer Room	Software	Computer Room	6th Floor	Software	Computer Room	Computer Room	Computer Room	Computer Room	Software	Computer Room	Computer Room	Computer Room	Computer Room	Ohio Office	Computer Room	6th Floor
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	d Number		11041	1274-1127	10546	10616	10618	11915	11916	11203			11861	11863	11864			11907				10617	10544	10215	10111	11320&21	;	11087	n/a		11865		11961	11962	n/a			11206	n/a	10875	n/a	n/a
Date Acquire	Cale Acquired Number	00-inc-10	09-Mar-01	5-Jun-05	01-Feb-97	01-Feb-97	01-Feb-97	22-Oct-03	22-Oct-03	17-Aug-01	5-Mar-02	30-Mar-98	24-Jun-03	24-Jun-03	24-Jun-03	24-Apr-03	06-Nov-01	9-Oct-03	09-Nov-01	1-Jan-02	31-Dec-02	01-Apr-97	01-Feb-97	01-Apr-97	01-Jun-98	18-Sep-02	06-Nov-01	01-Jun-01	14-Nov-02	01-Aug-01	24-Jun-03	1/22/2003	22-Dec-03	22-Dec-03	3-Jun-65	11-Apr-01	14-Mar-01	09-Oct-01	18-Sep-02	01-Apr-00	18-Sep-02	18-Sep-02

Enhance Energy Scheduling

ISP Support Management

11,968 11,758 11,175

Reliability

Market

12,634 12,054 Administration

Business Continuity

Market Systems

Computer Room Expansion Computer Room Expansion

Split

Control Room Infrastructure

Computer Room Expansion Computer Room Expansion

Enterprise Security Enterprise Security

Management

Split

10,974 10,888

Split

11,000 10,993

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Business Continuity

Administration

Management

Reliability

11,142 11,131

11,142

Computer Room Expansion

Computer Room Expansion Computer Room Expansion

Administration

Management

12,974 12,820 12,820

Split Split

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Exhibit 4

	Project	Administration	Administration	Control Boom Infraetructure	Entermise Security	Administration	Administration	Administration	Control Room Infrastructure	T Architecture	Administration	Administration	EMS Enhancements	Control Room Infrastructure	Computer Room Expansion			Computer Room Expansion	Control Room Infrastructure	Computer Room Expansion						Administration	Enterprise Security	Computer Room Expansion	Enterprise Security	Administration	Computer Room Expansion		oil Administration	Administration	Infrastructure	5 T	T(Pag	c C ge	Computer Room Expansion 60 Ti	st (Caf ucisueoxa m	se 24
	Function	Management	Management	Split	Split	Management	Management	Management	Solit	Spirit	Management	Management	Reliability	Split	Split	Transmission Ser	Management	Split	Split	Split	Transmission Se	Transmission Ser	Transmission Se	Transmission Ser	Management	Management	Management	Split	Split	Management	Split	Transmission Sel	Regional Reliabil	Management	Split	Reliability	Reliability	Reliability	Split	Management	Split	Management
12/31/2003	ш		9 357	860.6	9.276	9.255	9.228	8 923	8.919	8.792	8.693	8.640	8,421	8,295	8,257	8,249	8,248	8,148	8.100	7,955	7,952	7,952	7,952	7,952	7,919	7,912	7,710	7,692	7,674	7,608	7,546	7,541	7,456	7,395	7,387	7,366	7,366	7,366	7,356	7,349	7,286	7,285
	Life (Yrs)	5	m	er:	, m	ო	ო	m	· 60	m	2	ო	က	2	က	2	က	S	ო	ო	က	က	ო	ო	2	ß	က	က	က	က	က	က	က	ო	ro.	က	ო	ო	ო	ო	ო	ო
	Description		25 Visio Pro 2002 copies	RCM 8 Monitor for Sec. Ctr. & TelCon	1 PowerEdge 2250 Srvr (Intrusion De	SPPList Server Replacement	Voice System Upgrade	Color Scanner	Dell Power Edge 2650 Server	Workstation	Deposit on 60 chairs for training ctr.	Laptop	EMS Upgrade Support Software	True Time Device	Laptop - Workstation HP	Ricoh 350 Copier	HR Software - Employees Self Servic	Raised floor in computer room	Workstation	Vendor Net Router	Workstation	Workstation	Workstation	Workstation	Office Panels	Bal. On Cubes & Chairs	Norton AntiVirus Software	CSI Essential SoftWare for Nokia	Closed Circuit TV System	Color printer	Laptop	VM Workstation 3.0	Workstation	ScanXtender Scanner	Carpet in Security Room	ICCP Machine-Redundant	ICCP Machine-Redundant	ICCP Machine-Development	Hi-Speed Backup Sytem (Veritas SW	Imaging Software	Cisco Router & Smartnet	2-Laser Jet 8150; 1-Laser Jet 1200N
	Location	6th Floor	Software	A/C & TelCom Room on 7	Computer Room	Computer Room	Computer Room	S. Skipper	Computer Room	R. Turner	6th Floor	B. Phillips	Computer Room	Security Center	Computer Room	Ohio Office	Software	Security Center	Security Center	Telecom Room	J. Chamberlin	K. Tynes	C. Jamieson	J. Boshears	9th Floor	9th Floor	Software	IT Infrastructure	Security Center	9th Floor	Telecom Room	Software	R. Ciesiel	8th Floor Reception	Security Center	Computer Room	Computer Room	Computer Room	Computer Room	Corporate Services - 4th Floor	Computer Room	8th Floor Printers
	C/F/S	u.	ဟ	ပ	ပ	ပ	ပ	ပ	ပ	Ç	ш	ပ	တ	ட	ပ	u.	တ	L	ပ	ပ	ပ	ပ	ပ	ပ	LL.	LL ·	ဟ	ပ	ပ	ပ	ပ	တ (ပ	ပ	L (ပ	ပ	ပ	ပ	ဟ	ပ	ပ
<u>Q</u>	Number 1	n/a	n/a		11281	11897		10418	11820	10435	n/a	10229		11748	10196	10913			10385	11130	10981	10983	10985	10987	10289			!	10375	10419	10277	•	10842	11361		10923	10924	10925	11005		11129	11292-94
	Date Acquired Number	14-Nov-02	25-Jul-02	30-Dec-02	20-Jun-02	9-Oct-03	20-Mar-01	22-Dec-97	15-May-03	31-Oct-97	16-Sep-02	01-Jan-97	01-Dec-00	1-Apr-03	01-Jul-97	01-May-00	25-Jun-01	15-Aug-01	31-Jul-97	11-Jul-01	25-Jan-01	25-Jan-01	25-Jan-01	25-Jan-01	16-Mar-99	3-Apr-03	14-Aug-01	17-Apr-03	01-Jul-97	26-Nov-97	01-Apr-99	2/-Mar-U2	01-Apr-00	27-Nov-02	15-Apr-97	01-Sep-00	01-Sep-00	01-Sep-00	23-Feb-01	02-Dec-99	20-Jul-01	11-Jul-02

Southwest Power Pool, Inc.

Fixed Assets and Depreciation as of 12/31/2003

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Owniputer Notification Computer Notification Control Room Infrastructure Administration Control Room Infrastructure OASIS	Computer Room Expansion Computer Room Expansion Administration Administration Control Room Infrastructure Computer Room Expansion Computer Room Expansion	n Expansion ents ents Expansion rity rity	
	Computer Room Expansion Computer Room Expansion Administration Administration Control Room Infrastructure Computer Room Expansion Computer Room Expansion	Computer Room Expansion EMS Enhancements EMS Enhancements IT Architecture Computer Room Expansion Enterprise Security Enterprise Security Computer Room Expansion IT Architecture	Administration Market Systems Market Systems Market Systems Enterprise Security Enterprise Security Administration Administration
Transmission Ser Transmission Ser Transmission Ser Split Management Split Transmission Ser Management	Split Split Management Management Split Split	Split Reliability Reliability Split Split Split Split Split	Management Market Market Market Split Split Management Management
6,850 6,676 6,676 6,676	6,613 6,598 6,536 6,521 6,521 6,474 6,473	6,458 6,448 6,447 6,441 6,334 6,387 6,387 6,360 6,303	6,301 6,298 6,298 6,160 6,141 6,119
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Workstation Workstation Workstation Laptop Laptop Laser 5SI-REC Laptop computer Plotter-36" DesignJet 750C Plus WordPerfect Office; Corel; Acrobat	Network Server Laptop Laptop Software to upgrade Sec. Ctr. Phone LanScape 3000 Rack System Web Server	Web Server EMS Redundant Server EMS Redundant Server Workstation 36GB Ultra SCSI 10 K RPM Disk Driv BorderGuard 3000 15 copies of Visual Sourcesafe	Extra Cubicles PowerEdge 650 2.4GH Server PowerEdge 650 2.4GH Server PowerEdge 650 2.4GH Server VeriSign OnSite Global Server Admin Dell Latitude C840 workstation Infocus LP420 Video Projector Laser Printer - 5SI - ENG Laser Printer - 5SI - OPS
A. Blacklaw J. Smith C. Ordaz C. Ordaz R. Rhodes R. Ciesiel 6th Floor T. Mallinger Engineering Software	Computer Room Computer Room 4th Floor C. Monroe M. Sidor Telecomm Room Computer Room	Computer Room Computer Room Computer Room D. Martin Computer Room Firewall If & EMS group	Bth Floor Computer Room Computer Room Software A. Kloster 8 - IT Lab Library
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10898 10917 10893 10818 10840 10342 10807	10800 10541 10542 10430 10781	1082 11902 11903 10909 11134 11135	n/a 11956 11957 11955 10424 10622
01-Jun-00 01-Jun-00 01-Apr-00 01-Jan-00 01-Mar-00 01-Feb-96 20-Dec-99 01-Nov-00	15-Feb-96 15-Feb-96 15-Feb-96 1-5-Feb-96 1-Dec-03 31-Oct-97	an-00 ct-03 m-00 ay-02 ay-03 pr-03	14-Nov-02 20-Nov-03 20-Nov-03 20-Nov-03 02-Jul-01 18-Dec-97 01-Jan-97
10808 A Dischar	10917 C. J. Smith 10893 C. C. Ordaz 10818 C. R. Rhodes 10840 C. R. Ciesiel 10342 C. 6th Floor 10807 C. T. Mallinger 10971 C. Engineering	10917 C. J. Smith 10917 C. J. Smith 10893 C. C. Ordaz 10818 C. R. Rhodes 10840 C. R. Clesiel 10342 C. Gth Floor 10807 C. T. Mallinger 10971 C. Engineering S. Software S. Computer Room C. Computer Room 10541 C. M. Sidor 10542 C. M. Sidor 10781 C. Computer Room 10781 C. Computer Room 10781 C. Computer Room	10917 C J. Smith 10893 C C. Ordaz 10818 C R. Rhodes 10840 C R. Clesiel 10342 C Gh Floor 10807 C T. Mallinger 10971 C Engineering S Software S Computer Room C Computer Room C C Monroe 10541 C C Monroe 10542 C M. Sidor S Telecomm Room 10430 F Computer Room 10781 C Computer Room 10782 C Computer Room 11902 C Computer Room 11904 C Computer Room 11905 C Computer Room 11906 C Computer Room 11907 C Computer Room 11908 C Computer Room 11908 C Computer Room 11909 C Computer Room 11134 C Eirewall 11135 C Firewall 11135 C Firewall

EGSI TTC Cost Case

Fixed Assets and Depreciation as of 12/31/2003

Southwest Power Pool, Inc.

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	Project	Control Room Infrastructure	Computer Room Expansion	Computer Room Expansion	Computer Room Expansion	Computer Room Expansion	Computer Room Expansion	Enterprise Security	Committee Security	Computer Room Expansion		G CASIS	II Architecture	Computer Room Expansion	Business Continuity	Administration	Control Room Infrastructure	Administration	II Architecture	market Systems	Market Systems	Administration	Administration	Enterprise Security		il Administration	ei OASIS	IT Architecture	Administration	IT Architecture		ei OASIS	Administration	Enterprise Security	Administration	Business Continuity	IT Architecture	IT Architecture	IT Architecture	T Ambiguation	II Architecture		Market Systems
	Function	Sp		Split	Split	Split	Split	ilos:	1	ildo ildo	apiil Tomas	ransmission ser	indo	Split	Reliability	Mariagement	Monogomone	Management	Spill	Market	Management	Management	Management	Management	Split	Regional Reliabil	Transmission Ser	Split	Management	Split	Transmission Sel	Transmission Ser	Management	Management	Management	Reliability	Split	Split	Split	#500	Transmission Co. OACIS	Markot	Market
12/31/2003	Ending Cost	6,109	6,082	6,064	6,064	6,052	5.988	5.984	5 074	7,00,7	708'0	0,937	0,91	7,097	000,0	800'C	2,043	0,787	5,780	3,780	5,713	2,7,5	0,000 0,000 1,000	5,661	5,655	5,636	5,633	5,589	5,539	5,522	5,522	5,522	5,509	5,504	5,468	5,464	5,428	5.418	5,395	A 305	5,535 5,379	2,0,4	5,328
	Life (Yrs)	ო	ო	ო	ო	ო	ო	10	e en) (°	י ר	7 (*	י נ	, c	, ,) r	" (o (*	· ") (°	יא כ	» (°	, c	m (ი (m (თ -	ო	တ	ო	က	ო	Ŋ	ო	Ŋ	2	ო	ო	m	· CT	o er	· "	, m
	Description	HP LaserJet 5100 DTN Printer	Authorware & VLO Corp Studio Mix	Server	Server	Docking Station	Cisco Routers (Spares)	Security System for 465	Workstation	PIX Firewall - 515F		Latitude D800 Lapton & Docking	Workstation	Lapton	lanton	HP Laser Jet 5100 DTN Printer	Portable Projector	Workstation	Dell PowerEdge 4210 Cabinet	Dell PowerEdge 4210 Cabinet	Bal. On 12th floor conf. Table & chairs	Laseriet 4Si - ENG	McAfee License Scans	Deli 626 M. 477 M. C. C.	Deli 3/3/AL W/ 1/" monitor	Captop	Dell Precision 330 Workstation	Dell C400 Latitude Laptop	Scanner	Dell P4 Precision Workstation	Deil P4 Precision Wkstn	Deli P4 Precision Workstation	Bal. On Cubes & Chairs	PGP Personal Security Software	Deposit on chairs	Generator Switch	laptop computer	Dell Precision 330 MiniTower	DELL Laptop - Network Analyzer	DELL Laptop	Laptop	Fiber Switch	Fiber Switch
	Location	Security Center	Software	Computer Room	Computer Room	Computer Room	Computer Room	4th Floor	Computer Room	ESCA Office	J. Wilson	J. Keaton	Computer Room	Backup Site - AREC	J. Marschewski	Security Center	8-IT Lab	B. Gibson	ESCA Office	ESCA Office	12th Floor Office	8th Floor	Computer Room	Security Center	Cocamy Center R Ciesiel	I Woods	T Thompson	Comornio Coninco Att Plans	Colpoiate Services - 4th Floor	0. Tigillii	J. Holland B. Malkins	D. Walkup		Soliwale Office Obeins	Office Chairs		A. Kodriquez	Т . Но	7-Telecom Room	C. Monroe	C. Mamandur	ESCA Office	ESCA Office
	S/F/S	ა ი	y (ა ი	، د	၁ (ပ ၊	ட	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	တ	ပ	ပ	ပ	ıL	ပ	S	C) C	o c	o c) ii	ـ د) د) د) L	Lu	рц	LU	٠ (، د	S	ပ	ပ	ပ	ပ	ပ
<u>o</u> :	Number	11894	D/2	11234	11233	10301	ø C		10172	11949	10964	11958	10327	10545	10979	11388	10533	10922	11931	11930	n/a	10278		10248	10228	11194	11889	10704	12,71	11089	11103	2			11080	2000	10002	8/1	10201	10268	10434	11935	11934
	Date Acquired Number	53 Oct 03	23-Oct-02	1-Apr-02	20-100-1 20-100-1	S line of	30-unc-c	13-Nov-01	01-Jul-98	13-Nov-03	01-Sep-00	18-Dec-03	01-Dec-98	01-Feb-97	01-Dec-00	2/6/2003	01-Aug-99	01-Jul-00	6-Nov-03	6-Nov-03	18-Dec-02	16-Feb-95	01-Sep-00	27-Feb-95	01-Jan-97	20-Aug-01	10-Sep-03	02-Dec-99	26-Jun-01	01-1111-01	01-lun-01	21-Mar-03	02-1:11-01	5-Mar-02	23-Anr-01	22 1/01/02	66-NON-22	In-dac-In	01-Dec-98	01-Dec-98	01-Aug-99	20-Nov-03	20-Nov-03
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Southwest Power Pool, Inc.

Southwest Power Pool, Inc.

Fixed Assets and Depreciation as of 12/31/2003

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	Project	IT Architecture	OASIS	IT Architecture	IT Architecture	IT Architecture	IT Architecture	OASIS	IT Architecture	Market Systems	Market Systems	Administration	Market Systems	Administration	IT Architecture	IT Architecture	Administration	IT Architecture		Enterprise Security		Administration	Market Systems	IT Architecture	Business Continuity	Business Continuity	Control Room Infrastructure	IT Architecture	Administration	Enterprise Security	Administration	Administration	Administration	Administration	IT Architecture	IT Architecture	OASIS	IT Architecture	IT Architecture	IT Architecture	IT Architecture	
	Function	Split	Transmission Sel OASIS	Split	Split	Split	Split	Transmission Ser OASIS	Split	Market	Market	Management	Market	Management	Split	Split	Management	Split	Transmission Ser	Management	Regional Reliabil	Management	Market	Split	Reliability	Reliability	Split	Split	Management	Management	Management	Management	Management	Management	Split	Split	Transmission Ser OASIS	Split	Split	Split	Split	
12/31/2003	Ending Cost	5,306	5,306	5,278	5,278	5,278	5,255	5,255	5,239	5,195	5,194	5,181	5,174	5,153	5,148	5,148	5,142	5,116	5,096	5,087	5,056	5,029	5,029	5,014	5,000	4,985	4,985	4,967	4,963	4,905	4,884	4,884	4,884	4,884	4,860	4,860	4,860	4,847	4,814	4,814	4,814	
	Life (Yrs)	က	က	က	က	က	က	က	က	က	က	5	ო	'n	ო	ო	က	က	က	က	က	က	က	က	က	က	က	က	2	က	က	က	က	က	က	က	က	က	က	က	က	
		Dell Latitude C840 laptop	Dell Latitude C840 laptop	PowerEdge 1550-Web Server	PowerEdge 1550-Web Server	PowerEdge 1550-Web Server	Workstation	Workstation	Laptop	Fiber Switch	Fiber Switch	dep. On Conf. Table w/chairs	TOAD (7 copies)	Furn. For reception, MTS, interview rc	Web Redundant Server	Web Redundant Server	Projector for Training Room	Workstation	Laptop	Mail Sweeper Server	Dell Latitude C640 Laptop	Dell Latitude C640 Laptop	Dell Latitude C640 Laptop	Fluke Network Analyzer	Remote Backup Site Equipment	Cisco Router	Cisco Router	Work Station	Galli & RJ Furn; 10 Chairs; Cubes	Security Badge Printer System	Redundant Compaq Machine	Redundant Compaq Machine	Redundant Compaq Machine	Redundant Compaq Machine	Dell Latitude C840 laptop	Dell Latitude C840 laptop	Dell Latitude C840 laptop	Exch. Serv. Licenses (2yr)E-Mail Syst	PowerEdge 2550, Pentium III	PowerEdge 2550, Pentium III	PowerEdge 2550, Pentium III	
	Location	B. Sugg	J. Holland	Computer Room	Computer Room	Computer Room	R. Wheeler - Home	B. Rew - Home	J. Keaton	ESCA Office	ESCA Office	12th Floor Office	Software	8th Floor	Compter Room	Computer Room	6th Floor	S. Austin	B. Rew	Computer Room	R. Ciesiel	RJ Robertson	E. Davis	Computer Room	BackUp Site - AREC	AREC Redundancy Proj.	Telecom Room	A. Sabb	9th Floor	Telecom Room	6-Training Ctr.	6-Training Ctr.	6-Training Ctr.	6-Training Ctr.	T. Avery	J. Kelly	J. Wilson	Computer Room	Computer Room	Computer Room	Computer Room	
	C/F/S	ပ	ပ	ဟ	တ	ဟ	ပ	ပ	ပ	ပ	ပ	u.	တ	Ľ.	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	L.	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ပ	ဟ	ပ	ပ	ပ	
₽	Number	11799	11802	11131	11132	11133	10247	10252	10174	11939	11940	n/a		n/a	10784	10785	11044	11001	10202	11199	11398	11753	11756	11240	11106	11144	11145	10389		11271	10822	10824	10826	10828	11898	11903	11886	n/a	11169	11170	11171	
	Date Acquired Number	15-May-03	15-May-03	20-Jul-01	20-Jul-01	20-Jul-01	27-Feb-95	27-Feb-95	01-Sep-98	20-Nov-03	20-Nov-03	15-Nov-02	13-Nov-01	12-Sep-02	31-Dec-99	31-Dec-99	28-Mar-01	16-Feb-01	01-Feb-97	31-Aug-01	2/27/2003	10-Apr-03	10-Apr-03	21-Feb-02	09-Jul-01	01-Jul-01	01-Jul-01	01-Jun-99	2/20/2003	9-May-02	03-Mar-00	03-Mar-00	03-Mar-00	03-Mar-00	9-Oct-03	9-Oct-03	21-Aug-03	19-Aug-02	29-Aug-01	29-Aug-01	29-Aug-01	,

Exhibit 4

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Fixed Assets and Depreciation as of 12/31/2003

Southwest Power Pool, Inc.

Project Proj					_																																	2	UU) 3 	P
Ubmber Circle Description Life (Yrs) Ending Cost 11097 C. F. Tynes Dell Latitude C&d0 laptop 3 4,776 11097 C. Scheduling Agent CISCO Switch-OATI (off site) 3 4,776 11097 C. S. Androlling Agent Laptop 1,776 3 4,776 11097 C. Training Center Camputer Room Camputer Room PowerEdge 2650 Server 3 4,657 11890 C. Computer Room PowerEdge 2650 Server 3 4,517 4,517 11890 C. Computer Room PowerEdge 2650 Server 3 4,514 4,517 11180 C. Computer Room Fleward Servers 3 4,452 4,517 11195 C. Computer Room Fleward Servers 3 4,452 4,517 11196 C. Computer Room Fleward Servers 3 4,452 4,517 11196 C. Computer Room Fleward Servers 3 4,452 4,307 10977 C. A. Ralis Workstation Workstation 1,400<		•	_	o OASIS	Enhance Energy Scheduling	IT Architecture	IT Architecture	Computer Room Expansion	Administration	Market Systems	Market Systems	Transmission Olemb	Tansmission Planning	Enterprise Security	Administration	Enterprise Security	Enterprise Security	Enterprise Security	Market Systems	IT Architecture	Administration		_			OASIS	OASIS	IT Architecture	OASIS	Control Room Infrastructure	Computer Room Expansion	IT Architecture	Administration	Business Continuity	IT Architecture	Computer Room Expansion					•
1231/18			Trunction	ransmission Se	noddno do	Spir	Spir	Split	Management	Market	Market	Delishilih	Colit	Monomone	Maliayemen	Spilt	Spirt	Split	Market	Split	Management	Regional Reliabil	Solit	Monographic	management	I ransmission Se	I ransmission Se	Split	Transmission Ser	Split	Split	Split	Management	Reliability	Split	Split	Transmission Se	Market			
Number CF/S Location Description 11867 C K. Tynes Cished laptop 10972 C Scheduling Agent CisCO Switch-CATI (off site) 10282 C K. Moran Laptop 11077 C Training Center Projector 11077 C Training Center Projector 11891 C Computer Room Projector 111891 C Computer Room Projector 111892 C Computer Room Projector 111893 C Computer Room Pricevall Schware 11196 C 7-Telecom Room Firewall Schware 11197 C Computer Room Pricewall Schware 10955 C Computer Room Pricewall Schware 10956 C R. Dillon Workstation 10956 C Computer Room ARS Test Machine 10956 C Computer Room ARS Test Machine 10956 C Computer Ro		12/31/2003 Ending Cost		4,002	4,770	4,738	4,064	4,627	4,622	4,617	4.616	4 550	4514	4,5,4	2,0,1	4,452	4,452	4,452	4,358	4,358	4.334	4.307	4 305	1 305	200,4	4,297	4,297	4,280	4,208	4,160	4,145	4,100	4,096	4,090	4,080	4,066	4.017	4.016	1.261.768	33,275,131	
Number CF/S Location Description 11867 C K. Tynes Cished laptop 10972 C Scheduling Agent CisCO Switch-CATI (off site) 10282 C K. Moran Laptop 11077 C Training Center Projector 11077 C Training Center Projector 11891 C Computer Room Projector 111891 C Computer Room Projector 111892 C Computer Room Projector 111893 C Computer Room Pricevall Schware 11196 C 7-Telecom Room Firewall Schware 11197 C Computer Room Pricewall Schware 10955 C Computer Room Pricewall Schware 10956 C R. Dillon Workstation 10956 C Computer Room ARS Test Machine 10956 C Computer Room ARS Test Machine 10956 C Computer Ro		ifo (V _{re})	/ess/ ~	, c	,	, c	n 1	O	က	က	ო	67	· «	· (*) (, c	n ,	က	က	ო	က	က	ო	· (*	, n	, c	o 1	S.	က	ო -	က	က	က	2	ო	5	ო	က			
ID		Description	Dell Latitude C&40 lanton	CISCO Switch-OAT! (off site)	l anton	anton -Dell stitude 166	בשלים בשוומפ וסס		Projector	PowerEdge 2650 Server	PowerEdge 2650 Server	U. S. AutoCad	Firewall Software	Telephone System Upgrade	Firewall Servers	Firewall Copiers		rijewali Servers	Vorkstation	Workstation	Laptop	ARS Test Machine	Tape Drive	proxima versacolor	Dell 2 4GB MiniTower	Dell 2 4GB MiniTower		ratoware boards	Deli Precision 350 Workstation	Raised Flooring for Sec. Ctr. Lease #:	Cabiriet - 4100 M Series	Dell 450/lbase	HP Printer	Steps & Platform to Gen. Door	Dell 575/XL w/ 17" monitor	Raised Floor	PC	Dell 3200 MP Projector	Assets < 4,000		
10000000000000000000000000000000000000			K. Tynes	Scheduling Agent	8-IT Lab	K. Moran	Computer Room	Training Confer		Computer Room	Computer Room	Engineering	Remote Site	7-Telecom Room	Computer Room	Computer Room	Computer Boom	Domination Community	A Balls	Sills C	N. Brown	Computer Room	Computer Room	Training Center	J. Rooker	B. Lux	Compliter Doom	I Mile	Socialist Contain	Computer Boom	- Kester	S. NealOil	Outside October	Outside Generator	K. lurner	Computer Room	Kevin Goolsby	I raining Room			
		CIFIS	ပ	ပ	ပ	ပ	íL.	C) ر	ه د	ပ (တ	ဟ	ပ	ပ	ပ	C) c) د	ه د	، د	ပ	ပ	ပ	ပ	ပ	ш	ی .) د) C) ر) נ	ם כ	L (י כ	L (ပ (ပ			
Date Acquired 24-Jun-03 07-Mar-01 01-Dec-00 01-Mar-97 24-Mar-97 24-Mar-97 01-May-01 28-Aug-03 15-Dec-00 16-May-01 31-Aug-01 31-Aug-01 31-Aug-01 25-Jan-01 01-Sep-00 01-Apr-98	0		11867	11019	10972	10282		11077	11800	1000	1891			10164	11195	11196	11197	10975	10077	10066	0060	10267	10152	10079	11909	11912		11395	10378	11146	10142	10603	1 1 0 2 0	1070	10701	77077	11241	11950			
		Date Acquired	24-Jun-03	07-Mar-01	01-Dec-00	01-Mar-97	24-Mar-97	01-May-01	28-Aug-03	20-R-V 0C	20-Aug-03	13-Dec-00	16-May-01	01-Jun-98	31-Aug-01	31-Aug-01	31-Aug-01	25-Jan-01	25-lan-01	Of Sep 00	04 4 00	01-Aug-99	01-Apr-98	01-Feb-91	22-Oct-03	22-Oct-03	23-May-01	2/6/2003	03-Sep-97	01-Aug-01	14-Jan-94	OR-Dec-90	23_10L03	27 Eah 06	46. lab 04	10-ling-01	20-Jan-06	SO-AONI-O			

Sum of 12/31/2003 Ending Cost Function	Function							
Project	Management	Market	Reliability	Split	Transmission Service Provision	TSP Support	Regional Reliability	Grand Total
Administration	\$1,035,567.98						\$29,463.24	\$1,065,031.22
AEP Project					\$44,095.00		•	\$44,095.00
Business Continuity			\$259,690.27					\$259,690.27
Business Systems	\$168,171.56							\$168,171.56
Computer Room Expansion				\$1,246,447.20				\$1.246.447.20
Control Room Infrastructure		\$26,200.00		\$631,476.35		\$42.666.00		\$700,342,35
EMS Enhancements			\$1,621,434.78	\$444,803.38				\$2,066,238,16
EMS Implementation			\$2,692,652.00	\$36,500.00				\$2,729,152.00
Enhance Energy Scheduling						\$2,727,441.62	•	\$2,727,441.62
Enterprise Security	\$39,841.00			\$273,106.12	\$55,031.00			\$367,978.12
IT Architecture				\$196,139.06				\$196,139.06
Market Systems		\$20,814,257.75				•		\$20,814,257.75
OASIS					\$637,794.32			\$637,794.32
Operating Reserve Sharing			\$85,402.00					\$85,402.00
Transmission Planning			\$166,950.00	7				\$166,950.00
Grand Total	\$1,243,580.54	\$20,840,457.75	\$4,826,129.05	\$2,828,472.11	\$736,920.32	\$2,770,107.62	\$29,463.24	\$33,275,130,63

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Sum of 2004 Budget	Function							
Project2	Management	Market	Reliability	Split	Transmission Service Provision	TSP Support	Regional Reliability	Grand Total
Administration	\$1,297,438.00						\$9.000.00	\$1.306.438.00
Business Continuity			\$804,125.00					\$804,125.00
Computer Room Expansion				\$308,040.00				\$308,040,00
EMS Enhancements			\$218,000.00					\$218 000 00
Enhance Energy Scheduling						\$7 500 00		67 EOO OO
Enterprise Security	\$49 085 00			674 076 00		000		00.000, 14
Market Custome	00:00010:-			00.078,574				\$121,061.00
Mainel Systems		\$12,859,320.00						\$12,859,320.00
OASIS					\$211,775.00			\$211,775.00
Transmission Planning	•		\$53,000.00					\$53,000,00
Grand Total	\$1,346,523.00 \$12,859,	\$12,859,320.00	\$1,075,125.00	\$380,016.00	\$211,775.00	\$7,500.00	\$9.000.00	\$9.000.00 \$15.889.259.00

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Period	Prior Rent per Month	Scheduled Rate Increase	Current Rent Rate	Total Rent for the Period	Co	nnual est per eq. Ft.
Jan-Sept. 2003	47,625	-		428,629	\$	15.13
Oct 2003-Oct. 2004	47,625	3%	49,054	588,651	\$	15.58
Oct 2004-Oct. 2005	49,054	3%	50,526	606,311	\$	16.05
Oct. 2005 - Oct. 2006	50,526	3%	52,042	624,500	\$	16.53
Oct. 2006-Oct. 2007	52,042	3%	53,603	643,235	\$	17.03
Oct. 2007-Oct. 2008	53,603	3%	55,211	662,532	\$	17.54
Oct. 2008 - Oct. 2009	55,211	3%	56,867	682,408	\$	18.07
Oct. 2009 - Oct 2010	56,867	3%	58,573	702,880	\$	18.61
Oct 2010 - Oct. 2011	58,573	3%	60,331	723,967	\$	19.17
	Total Rent for the REM	MAINING Life of the	e Lease	5,663,113		
i	Average MONTHLY Re	ent for the REMAI	IING Life of the Lease	53,934		
;	Square Footage Occu	pied		37,773		
	Average ANNUAL Cos	st per Square Foot		\$ 17.13		

ental Function Managas 2, 2, 18 & STRATEGY TURE NAGEMENT		Dogiood		4		
S RE & STRATEGY 1 TURE 9 NAGEMENT 2	Markets	Reliability	Reliability	Transmission Service Provider	TSP Support	Grand Total
S RE & STRATEGY TURE NAGEMENT			***************************************	100000000000000000000000000000000000000		
RE & STRATEGY TURE NAGEMENT 2				47		2,131,004
TURE NAGEMENT				D C. D .		179,423
NAGEMENT						164,471
NAGEMENT						938.693
						29 904
						22,22
		350 510				27,170
		0,000				810,800
CHSTOMER RELATIONS						29,380
				1		104,663
HAUMUO			598,076	608,248		1,206,324
			74,759			336,417
		-				680,313
CONTINUENT DE ATIONS & PROCESS IMPROVEMENT					•	149,519
						74,760
323,039						323,039
ON ENGINEERING			- 10	299,039		299,039
AGEMEN						350,567
LEGAL 284,278						284.278
MARKET ANALYSIS	898,077			-		898,077
MARKET MANAGEMENT	336.417					336.447
MARKET OPERATIONS	7.504.604					7 504 804
MARKET SUPPORT	1.995.278					1,004,004
MEMBER RELATIONS 44,856						1,550,470
	·		1 033 798	74 750		4 400 557
OFFICE & FACILITIES 378,797				3		278 707
OPERATIONS ENGINEERING		37.380	441 082	200 030		777 504
OPERATIONS MANAGEMENT 52.332		2	**************************************	600,004		100,777
CHEDULING		74.760				74.760
RELIABILITY AUTHORITY		37.380	2 003 630			0,04,040
RELIABILITY ENGINEERING		299.039	2001			200,140,2
SCHEDULING		149.519			1 792 956	1 042 475
SETTLEMENTS	550.557			447 755	1,102,000	008 312
TARIFF ADMINISTRATION 299,039		20.080		1 793 429		2142 548
PORT			283.283	74 759	171 168	520 240
TRAINING 74,759	74.759			3	-	140 519
NG NG				598 077		508 077
FRANSMISSION PLANNING			1,179,532			1 170,527
FRANSMISSION POLICY 743,037				998.557		1 741 594 1
	*	•				14 9520
Srand Total 7,414,203	11,359,692	1,007,677	5,614,160	5,343,181	1,964,124	32,703,037±0

SPP Raw Operating Budget Data	Budget Data			Sal	Salary, Travel, Meetings	•	Admin		a control of
				S		NERC 1.	¥	368	7,573,680
Personnel	Corporate Function	ction	Op Budget FTEs		291,638	000'0	47	2	
Accounting	Management		149,519 1	0.71%	137 797	•	3,519	8.203	
Accounting	Management	FINANCE & ACCOUNTING	598,077 4	2.86%	551,190		14,076	32,811	
Accounting	Management	FINANCIAL ANALYSIS & PROCESS IMPROVEMENT	149,519 1	0.71%	137,797		3,519	8,203	
Accounting	Markets	SETTLEMENTS	550,557 3	2.14%	413,392		10,557	126,608	
Accounting	Transmission Service Provider	BUSINESS APPLICATIONS	149,519 1	0.71%	137,797		3,519	8,203	
AED Project	Menagement	TABLE ADMINISTRATION	289,039 2	1.43%	275,595		7,038	16,406	
Applications	Management	IT MANAGEMENT	299,039 2	1.43%	275,595		7,038	16,406	
Applications		MARKET SLIPPORT	373 700 0 5	4.70%	13/./9/		3,519	8,203	
Applications	\ \ \	EMS APPLICATIONS	448 557 3	2148	A44,484		0,797	70,507	
Applications		NETWORK MODELS	734 759 0 5	36%	265,514 68 800		1750	4,000	000 000
Applications	sion, Service Provider	EMS APPLICATIONS	608.248 0.5	0.36%	68 89		1 759	537 590	990,000
Applications		NETWORK MODELS	74,759 0.5	0.36%	68,89		1.759	4.101	
Applications.		SETTLEMENTS	74,759 0.5	0.36%	68.89		1,759	4.101	
Applications	Transmission Service Provider	TARIFF ADMINISTRATION	373,798 2.5	1.79%	344,494		8.797	20,507	
Applications	TSP Support	SCHEDULING	299,039 2	1.43%	275,595		7,038	16,406	
Bruce Rew	Management	ENGINEERING MANAGEMENT	74,759 0.5	0.36%	68,89		1,759	4,101	
Bruce Rew	Management		518,759 0.5	0.36%	68,89		1,759	4,101	444,000
Carl Monroe	Management	ADMINISTRATIVE	37,380 0.25	0.18%	34,449		880	2,051	•
Carl Monroe	Management	IT MANAGEMENT	37,380 0.25	0.18%	34,449		880	2,051	
Carl Monroe	Management	OPERATIONS MANAGEMENT	37,380 0.25	0.18%	34,449		880	2,051	
Car Monroe	Markets		37,380 0.25	0.18%	34,449		880	2,051	
Chery Robertson	Management	ADMINISTRATIVE	149,519 1	0.71%	137,797		3,519	8,203	
Customer Service	Management	ADMINISTRATIVE	14,952 0.1	%20.0	13,780		352	820	
Customer Service	Markets	MARKET SUPPORT	254,183 1.7	1.21%	234,256		5,982	13,945	
Cietomer Service	Transmission Senice Ornidar		14,952 0.1	0.07%	13,780		352	820	
Customer Service	TOP Cupped	SCHEDI INC	288,039 2	1.43%	2/5/595		7,038	16,406	
H	Management	AOMINISTRATIVE	E20 427 9	0.07%	13,780		352	820	
Ŧ	Management	HUMAN RESOURCES	323,137, 3	4.1470	75.592		10,557	24,608	086,87
Infrastructure	Management	BUSINESS INFRASTRUCTURE	619 702 4	286%	551 190		14 076	32 811	24,000
Infrastructure	Management	IT MANAGEMENT	96,384 0.5	0.36%	668,899		1,759	4.101	21,625
Infrastructure	Markets	MARKET SUPPORT	208,524 1.25	0.89%	172,247		4,399	10.253	21.625
Infrastructure	Reliability	TECH SUPPORT	208,524 1.25	0.89%	172,247		4,399	10,253	21,625
Inrestructure	Iransmission Service Provider		59,005 0.25	0.18%	34,449		880	2,051	21,625
Infrastructure	TED S	TECH SUMINISTRATION	59,005 0.25	0.18%	34,449		880	2,051	21,625
Infliction	Transmission Service Dravider	TDANIENIESION DOLLOS	96,409 0.5	0.36%	68,89		1,759	4,101	21,650
Karen Thomas	Management	ADMINISTRATIVE	142 420 0 75	0.71%	137,797		3,519	8,203	920,000
	Markets	MARKET SUPPORT	37 380 0.75	0.04%	24.440		2,639	6,152	
	Management	TRAINING	74.759 0.5	0.36%	68,899		1 759	2,03	
Katie Duncah	Markets	TRAINING	74,759 0.5	0.36%	68,899		1,759	4.01	
Keith Dover	Management		74,759 0.5	0.36%	68,89		1,759	4.101	
Keith Dover	Management	CHANGE MANAGEMENT	74,759 0,5	0.36%	68,89		1,759	4,101	
Keyn Perry	Management	BUSINESS APPLICATIONS		0.14%	27,559		\$	1,641	20
Kevin Demy	Margament	DUSINESS ANCHIECIUME & SINAIEGY	44,856 0.3	0.21%	41,339		1,056	2,461	00
Kevin Perry	Management	BUSINESS INTRAS RUCI UKE	14,952 0.1	0.07%	13,780		352	820	5 ⁻
Kevin Perry	Management	IT MANAGEMENT	28,904 0.2	0.14%	27,559		8		П
Lanny Nickell	Management	OPERATIONS MANAGEMENT	14 952 0 1	0.07%	13.780		\$ £		C
	Regional Reliability	REGIONAL SUPPORT & SCHEDULING	44,856 0.3	0.21%	41.339		1.056	2.461	C
Lanny Nickeli		OPERATIONS ENGINEERING	29,904 0.2	0.14%	27,559		70	1,641	os
Lanny Nickell		RELIABILITY AUTHORITY	829,904 0.2	0.14%	27,559	800,000	\$	1,64	t (
Lanny Nickell	TSP Support	TARIFF ADMINISTRATION	14,952, 0.1	0.07%	13,780		352	820	30 Ca f 1:
		SCHEDULING	14,952,0.1	0.07%	13,780		352	820	se
		LEGAL.	148,519 1	0.71%	137,797		3,519	8,203	•

SPP Raw Operating Budget Data	Budget Data	· ·		Salary, Travel Meetings.	_	L&M	Services
				Comm	NERC 1,270,347	3,767,368	7,573,680
Personnel	Corporate Function	Departmental Function	Op Budget FTEs	19,291,638	800,000	1,148,389	
Les Dillahunty	Management	ENGINEERING MANAGEMENT		0.18% 34.449		_	
Les Dillahunty	Management	GOVERNMENT RELATIONS	37.380 0.25				
Les Dillahunty	Management	TRANSMISSION POLICY	74,759 0.5				
Market Dev and Analysis	Markets	MARKET ANALYSIS	898,077 4	••,		.,	300.000
Market Dev and Analysis	Markets	MARKET MANAGEMENT	74,759 0.5		9 1,759		
Market Dev and Analysis	Markets	MARKET OPERATIONS	6,420,591 0.5			9 1,779,933	4,570,000
Market Dev and Analysis	Markets	MARKET SUPPORT	149,519 1	0.71% 137,797			
Market Operations	Markets	MARKET OPERATIONS		-		u;	
NICK Brown	Management	ADMINISTRATIVE	989,839 10.75	•	780		100,000
Nick Blown	Management.	GOVERNMENT KELATIONS	37,380 0.25				
Ops Engineering	Regional Reliability	OPERATIONS ENGINEERING	37,380 0.25				
Ops Engineering	Keliability		411,178 2.75				
One Engineering	Deliability	CHERALICIA ENGINEERING	2 860,682	1.43% 2.05,080			
One Engineering	Delichility		- ,				
Pat Bourse	Management	TDANGMISSION DOLLO	140 640 4	1.45% 2/0,090	7,038		
Planning	Decisional Deliability	DELIADI ITY ENGINEEDING					
Diamino	Deliability	INCLUDICITY ENGINEERING		1.43% 2.033			
Planning	Reliability	TDANGMICCIÓN DI ANAIMO	0 4				
Reliability Coor	Regional Reliability	DELIABILITY ALTHODITY	1	•	7	200,976	
Reliability Coor	Reliability	DELIABILITY ALTHODITY	1 000 255 6 75	4 0000	23.753		
Richard Dillon	Markets	MARKET MANAGEMENT	_				
R.I Robertson	Management	CISTOMED REI ATIONS			0,018		
R.I Robertson	Management	MEMBER DELATIONS					
Ron Ciesiel	Regional Reliability	COMPLANCE	Т	0.2.1.70			20000
Roy Sundman	Transmission Senice Provider	TDANGMISSION DOLLOW],	•			210,000
Schedulino	Regional Reliability	SCHEDIIING	Ţ	•			
Scheduling	TSP Support	SCHEDILING				•	390,000
Security	Management	BUSINESS ARCHITECTURE & STRATEGY	119 615 0.8	•	2815		200,000
Security	Management	BUSINESS INFRASTRUCTURE	2				2000
Security	Management	OFFICE & FACILITIES	154,519 1				2,000
Security	ability	REGIONAL SUPPORT & SCHEDULING	20				
Sherry Jensen	Management	ENGINEERING MANAGEMENT		_	67		
Stacy Duckett		ADMINISTRATIVE	0.25				
Stacy Duckett		CORPORATE AFFAIRS	_				22,000
Stacy Duckett	Management	ILEGAL	0.5		-		000'09
I and Administration	Regional Reliability	TARIFF ADMINISTRATION	50,080 0.25				12,700
Toda Studies	Transmission Service Provider	INTERPORTED TO A CONTROLL OF THE PROPERTY OF T	8.75				
Tariff Studies	Transmission Service Provider	TOANSMISSION CACINEDING	2 850,682	1.45% 2/0,090		16,406	
Tariff Studies	Transmission Service Provider	TRANSMISSION POLICY	_[_		0.0.4. 0.0.4.		
Tech Development	Management	CHANGE MANAGEMENT	Ţ				
Tech Development	Management	IT MANAGEMENT				2.051	
Tech Development	Markets	MARKET MANAGEMENT	0.75	•			
	Markets		2			•	20
	Management	OFFICE & FACILITIES	1.5	74			00
	Reliability	TECH SUPPORT	0.5				5 P
Telecomm	Transmission Service Provider	TECH SUPPORT	74,759 0.5				П
Tom Duna	1 SP Support	I ECH SUPPORT	5 5		1,759		C
Tom Dama	Management	FINANCE & ACCOUNTING	67.0	0.18% 34,448			C
Tom Dimo	Management		8 -		259,1	4	o
Tom Dunn	Transmission Service Provider	SETTLEMENTS	14.952 0.1			820	Vest o
Training	Markets	MARKET SUPPORT	15	~	ις,		Ca
Training	Reliability	RELIABILITY AUTH					as
Training	Transmission Service Provider	TARIFF ADMINISTRATION	0.25		880	2,051	е

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.&M Services	3,767,368 7,573,680	1,148,389	2,051
Admin		492,647	880
	NERC	800,000	
Salary, Travel, Meetings,	Comm	19,291,638	34,449
			0.18%
		on Op Budget FTE	37,380 0.25
		Departmental Functi	SCHEDULING
w Operating Budget Data	A Charles C	Ton o	noddne re I
SPP Ra	Perconne	Tosinion	

Sum of FIEs	Corporate Function						
Departmental Function	Management	Markets	Regional Reliability	Reliability	Transmission Service Provider	TSP Support	Grand Total
ADMINISTEDATIVE	101				1001001		
	CO.1						7.85
BUSINESS APPLICATIONS	0.2				-		1.2
BUSINESS ARCHITECTURE & STRATEGY	-						-
RISINESS INFRASTRICTIBE							: ;
	5						ē.
BUSINESS PROJECT MANAGEMENT	0.2						0.5
CHANGE MANAGEMENT	1.						
COMPLIANCE			•				-
			-				- ;
SAIR ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	0.25						0.25
CUSTOMER RELATIONS	0.7						0.7
EMS APPLICATIONS				•	4		
ENCINEEDING MANACEMENT	11			•			
	67.1			0.5			2.25
FINANCE & ACCOUNTING	4.55						4.55
FINANCIAL ANALYSIS & PROCESS IMPROVEMENT	_						*-
GOVERNMENT RELATIONS	50						- u
HI IMAN DESCRIPTES							0.0
	Y				,		.7
IN ERCONNECTION ENGINEERING					2		2
T MANAGEMENT	2.2						2.2
LEGAL	5.						4.5
MARKET ANALYSIS		4				-	<u>.</u>
MARKET MANACEMENT		ָר ער כ					* !
		67.7					2.25
		C/./					7.75
MARKET SUPPORT		13.2					13.2
MEMBER RELATIONS	0.3						0.3
NETWORK MODELS				2.5	0.5		
OFFICE & FACILITIES	2.5				2		
OPERATIONS ENGINEERING	ì		30.0	20.0	c		
OPERATIONS MANAGEMENT	0.35		0.23	C8.7	7		2.6
DECIÓNAL CLODORA 9 SOUTO INO	0.33		4				0.35
SEGICIANE SUPPLIES & SUPERUCEING			0.5				0.5
RELIABILITY AUTHORITY			0.25	8.05			8.3
RELIABILITY ENGINEERING			2				2
SCHEDULING			τ-			9.45	10.45
SETTLEMENTS		ന			2.85		5.85
TARIFF ADMINISTRATION	8	1	0.25		11.85		14.1
TECH SUPPORT				175	9 0	*	10.0
TRAINING	ις Ο	9		2	?	-	0.20
TRANSMISSION FINGINFERING	;	3			•		- •
TRANSMISSION PLANNING				u u	•	٠	4 (
TRANSMISSION POLICY	•			0.0	•		0.0
TREASURY	7 -				7		0
Total	- 3						. O
Grand Lotal	39.15	30.7	5.25	26.25	282	10.45	277

WestConnect

EGSI TTC Cost Case 3-377 1677

Particular Department Part		2003 Total	2004 Total	2005 Total	2006 Total	2007 Total	2008 Total	2009 Total	2010 Total	2011 Total	Total
Section Sect											
Control of the cont	Intern Committee Expenses										
Section Sect	Board Search Expenses	90									6450 000
Comparison Strict	CEO/Executive Search Expenses	\$18,000									\$718,000
Charles Strong	Office Space approx. 1000 sq. ft.	0\$	\$36,000	L							\$420,000
Chemister St. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	Administrative	\$12,000									\$93.000
Charles St. Charles St		_	1						i t		
Expenses Sp		_	-1	7	2				5,5		11.69,00
Expenses State S	WestConnect Board Expenses										
Expenses 50 50 50 50 50 50 50 5	Retention Fees	80	0\$				1	1			\$700.000
Strong	Meeting Fees	80	Ö\$			L				L	\$128,000
STOCK STOC	Meeting and Travel Expenses	\$0	0\$								\$208.000
Strip Stri	D & O Insurance	0\$	0\$								\$1,200,000
STOCK STOC	1 1					,	100 9888				\$2,236,000
Strict S	Tariff Filing			Ш							
Section Street	Consultanting	\$100,000	\$280,000			1					\$670,000
State Stat	Systems	90			-	-1					\$220,000
State Stat	KFF Process & Contract	0,000			1	1					\$240,000
State Stat	Website	\$180,000					1	•			\$650,000
First Furnitation First Furnitation First Furnitation Furn		3									\$36,800
Figure State Sta	OF LANGES VOIDERED EXPENSES		- MOLOOS	\$204,000			1	200		8.3	\$1,876,800
Chemorates 1,000 2,00 2,00 2,00 2,15,00,000	festConnect Building										
Expenses \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Lease (07 temp. facilities)	2	\$0	\$0	0\$	\$180,000	\$1,500,000		[]		\$6,180,000
Street S	Prepare Facilities (Renovate), I/C & U	S	\$0	80	\$0	\$0	\$13,500,000			\$114,000	\$14,526,000
Sections Section Sec	On going Operating Expense	20	200	S,	OS.	9					\$456,000
State Stat	Lorange	O\$	05	23	20	\$60,000					\$60,000
etitoris \$0 \$0 \$0 \$16,000,000 \$12,000,000 \$15,000,000	COLPORATIVE EXPENSES	04	8		9	25.69.28	£16,408,000	\$1,886,000		\$1.674.000	\$21,212,000
Expenses \$336,000 \$336,000 \$336,000 \$336,000 \$33,000,000 \$3,000,000 \$1,000,00	VestConnect Operations										
Expenses \$336,000 \$336,000 \$336,000 \$336,000 \$33,000,000 \$3,000,00	Operations Software/Hardware	25	\$0	80	05			\$12 000 000	\$16,000,000		\$44,000,000
Expenses \$336,000 \$336,000 \$336,000 \$3,408,000 \$3,408,000 \$3,929,000 \$17,545,000 \$7,194,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Communications between W/C and P	O\$	\$0	O\$	O\$			\$2,200,000	1 1	\$150,0	\$4,550,000
Expenses \$336,000 \$336,000 \$336,000 \$336,000 \$3400,000 \$3,408,000 \$3,929,000 \$17,545,000 \$7,194,000 eci Manager (1) \$50 \$50 \$700,000 \$7,194,000,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000 \$7,194,000,000 \$7,194,000 \$7	ALIONACION STILL SECTION	04	*		8		*174.0.000	\$14,200,000	\$16,550,000	039/0818	\$48,000,000
Expenses \$336,000 \$336,000 \$336,000 \$1,204,000 \$3,408,000 \$1,7545,000 \$1,744,000 ect Manager (1) \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	taff Expenses										
ect Manager (1) \$0 \$0 \$0 \$0 \$1,209,000 \$13,929,000 \$17,545,000 \$7,194,000 ect Manager (1) \$0 \$0 \$0 \$0 \$0 \$1,204,000 \$1,209,000 \$1,200,000 \$7,194,000 \$1,200,000 \$1,20	Project Manager Expenses	\$336,000	\$336,000	\$336,000	\$336,000	\$84,000					\$1.428.000
ect Manager (1) \$10 \$10 \$20 \$20 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5	Staffing					\$1,204,000	1.	1	\$17.545.0	\$7.194	\$33,280,000
\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Procurement Project Manager (1)	0\$	\$0	0\$	3						20
State	Relocation .	0\$	0\$	0\$	8	\$340,000			\$1,200,0	0\$	\$2,240,000
## 14,000 F 14,000 F 14,000 F 15,000 F		2,5	0\$		The state of the s		1000				
Second S		े. अर्थे अर्थ	OS		100 W		100 Care 100		516,748,000	57.194.00d	THE PERSON
Reserve \$10	iscellaneous Expenses					1 1					
1	ege	0\$	8	OS.	9						\$15,300,000
Trance SO	orporation Financial Reserve	05	80	08	OS	- 1					\$8,000,000
SO \$4,000,000 \$4,000,000 \$4,000,000 \$5,000,000 \$4,000,000 \$5,000,0	iged commigator	2	20	03	S	\$10,000,000	- 1	- 1	\$		\$10,000,000
	rues, licensing, insurance	0.5	0\$	20	08	\$4,000,000	- 1	- 1	\$4,000,000		\$16,000,000
STATE OF STA					03	20X22X2X	10000015	\$2.00 (C)	TANDAR.	000'0088	
	over Emerces	00000000	000000	1	200						

Exhibit 5

EGSI TTC Cost Case

Debt Interest Rates 15 Year Average

	Prime	Five Year Treasury	Seven Year Treasury	Moody's Long-term Aaa
	Rate	Notes	Notes	Bond Rate
1989	10.87	8.50	8.52	9.26
1990	10.01	8.37	8.52	9.32
1991	8.46	7.37	7.68	8.77
1992	6.25	6.19	6.63	8.14
1993	6.00	5.14	5.54	7.22
1994	7.15	6.69	6.91	7.97
1995	8.83	6.38	6.50	7.59
1996	8.27	6.18	6.34	7.37
1997	8.44	6.22	6.33	7.27
1998	8.35	5.15	5.28	6.53
1999	8.00	5.55	5.79	7.05
2000	9.23	6.16	6.20	7.62
2001	6.91	4.56	4.88	7.08
2002	4.67	3.82	4.30	6.49
2003	4.12	2.97	3.52	5.66
15 Year Avg	7.70	5.95	6.20	7.56
Basis spread	0.00	1.75 (1)	1.75 (1)	0.00
Total	7.70	7.70	7.95	7.56

⁽¹⁾ In Docket No. ES02-53-000, Midwest Independent Transmission System Operator, Inc., application to issue securities the pricing of the interest rate was based on the market rate of comparable term U.S. Treasury on the date of pricing, plus a spread that of 150 to 200 basis points. Consequently, for the above calculation we picked the mid-range of 175 basis points.

Source: Federal Reserve Board

3-380

Debt Interest Rates 10 Year Average

1994 1995 1996 1997 1998 1999 2000 2001	Prime Rate 7.15 8.83 8.27 8.44 8.35 8.00 9.23	Five Year Treasury Notes 6.69 6.38 6.18 6.22 5.15 5.55 6.16	Seven Year Treasury Notes 6.91 6.50 6.34 6.33 5.28 5.79 6.20	Moody's Long-term Aaa Bond Rate 7.97 7.59 7.37 7.27 6.53 7.05 7.62
2002 2003	6.91 4.67 4.12	4.56 3.82 2.97	4.88 4.30 3.52	7.08 6.49 5.66
10 Year Avg	7.40	5.37	5.61	7.06
Basis spread	0.00	1.75 (1)	1.75 (1)	0.00
Total	7.40	7.12	7.36	7.06

⁽¹⁾ In Docket No. ES02-53-000, Midwest Independent Transmission System Operator, Inc., application to issue securities the pricing of the interest rate was based on the market rate of comparable term U.S. Treasury on the date of pricing, plus a spread that of 150 to 200 basis points. Consequently, for the above calculation we picked the mid-range of 175 basis points.

Source: Federal Reserve Board

3-381

Debt Interest Rates 5 Year Average

1999	Prime Rate 8.00	Five Year Treasury Notes 5.55	Seven Year Treasury Notes 5.79	Moody's Long-term Aaa Bond Rate 7.05
2000	9.23	6.16	6.20	7.62
2001	6.91	4.56	4.88	7.08
2002	4.67	3.82	4.30	6.49
2003	4.12	2.97	3.52	5.66
5 Year Avg	6.59	4.61	4.94	6.78
Basis spread	0.00	1.75 (1)	1.75 (1)	0.00
Total	6.59	6.36	6.69	6.78

⁽¹⁾ In Docket No. ES02-53-000, Midwest Independent Transmission System Operator, Inc., application to issue securities the pricing of the interest rate was based on the market rate of comparable term U.S. Treasury on the date of pricing, plus a spread that of 150 to 200 basis points. Consequently, for the above calculation we picked the mid-range of 175 basis points.

Source: Federal Reserve Board

RTO Debt Outstanding As of December 31, 2003

PJM

	Outstanding 12/31/2003	Ratio	Rate	Weighted Average Rate
Short-term Debt	0	0.000	0	0
Long-Term Debt: Senior Notes	\$66,521,000	0.466	7.163	3.34
Project Development Facility - Variable Rate	76,129,000 \$142,650,000	0.534 1.000	3.200 (1)	1.71 5.05

Midwest Independent Transmission System Operator, Inc.

	Outstanding 12/31/2003	Ratio	Rate	Weighted Average Rate
Short-term Debt	\$5,000,000	0.024 _	1.670	0.04
Long-Term Debt:				
8.75 % Series Senior Notes	\$99,667,000	0.485	8.750	4.24
4.69 % Series Senior Notes	100,000,000	0.486	4.690	2.28
National Cooperative Services Corp. Variable Rate	887,498	0.004	3.000 (1)	0.01
	\$200,554,498	••		6.52
Total Debt				
	\$205,554,498	1.000		6.56

⁽¹⁾ Variable rate debt - used rate on December 31, 2003 in the above calculations.

PJM - MISO Debt

Exhibit 5

4 of 4

Exhibit 6

EGSI TTC Cost Case 3-384 1684

4 Other Quantified RTO Impacts - Benchmarking

This section describes the quantitative benchmarking analyses. TCA gathered information from industry sources in several areas:

- Startup and operating costs for RTOs, 38
- Startup and operating costs of exchanges,
- Costs of performing a schedule coordinator role, and
- Monetary valuation of impacts of unplanned outages (loss of load).

Each of these areas is addressed below.

4.1 Startup and Operating Costs for RTOs

The October 2000 "RTO West Potential Benefits and Costs" report estimated the RTO West expected startup costs at \$82 million and the annual operating costs at \$50 million. This estimate was based on the October 2000 study group's best estimate of the levels of staffing and startup costs anticipated.

TCA collected data related to costs to develop and maintain ISOs/RTOs in North America.³⁹ This effort was intended to provide insights into the actual operating costs of similar organizations in the United States and Canada. The cost data were collected from a variety of sources, primarily publications from the respective organizations.

Table 23 summarizes the data collected for each of the ISOs and RTOs in North America. 40 The table shows startup and annual operating costs where available. In all

^{38 &}quot;RTO" is used in this Section and in Section 5 to represent the broad set of RTO organizations, including

³⁹ Within this section the terms ISO and RTO are used interchangeably to represent, except where noted, functionality on the scale expected within the RTO West.
⁴⁰ Notes/Sources:

A. All values in \$US.

B. Direct comparisons across regions must be undertaken with care. Some shared regional functions and cost responsibilities are handled outside of ISO cost structure.

C. Some start-up costs not reflected or associated with previous tight pool structure and cost recovery.

D. Cost values actual or projected for 2000 or 2001, except where noted.

E. New England annual depreciation and interest costs are accounted for outside of the NE-ISO tariff structure.

F. Ontario, PJM, New England, and NY values from Ontario Independent Market Operator (IMO) Business Plan 2001-2003, November 2000.

G. NY ISO transition costs were obtained from the NY ISO Annual Report, 2000.

H. ERCOT values taken from Public Utility Commission of Texas Docket 23320 filings.

Alberta values from Transmission Administrator (TA) and Power Pool of Alberta (PP) Annual Review / Report documents for 2000, and Cox Report (see note L), and as provided by EAL professionals.

Exhibit VGC-6 2005 TTC Cost Case Page 116 of 124

cases, however, all-in per-megawatt-hour carrying costs (startup and operating costs) have been provided or derived for each ISO/RTO and are shown.

J. Ontario start-up costs based on 1999 - 2001 capital expenditures from the IMO Business Plan 2001-2003, page 32 (\$CA 254 Million).

K. ERCOT start-up costs based on 2000 - 2001 capital expenditures as reported in the "Year 2001 ERCOT Fund Summary" in Docket 23320 filing.

L. California numbers are from 2001 and are from "Participant Charges at Electricity Exchanges, Pools and ISOs: Towards a Benchmarking Study," prepared for the Power Pool of Alberta by Paul Cox, December 29, 2000, and revised May 9, 2001.

M. PJM is represented in several configurations in the table, and all configurations are included in the weighted averages. Since the costs of these configurations span the range of other ISO costs, this factor is not expected to materially bias the average.

38

Table 23: Startup and Operating Costs of ISOs/RTOs

	Annual O&M Costs (\$ million)	Annuel Amortized Depreciation and Interest Costs (\$ million)	Total Annual Revenue Requirement with Debt & interest (\$ million)	Annual Energy (TWh)	Unit O&M Costs (\$/MWh)	Unit Revenue Requirement (\$/MWh)	Pesk Demand 2000 (MW)	Transmission Miles	# FTE employees	Staffing FTE/TWh	Start-up Costs (\$ million)
PJM (2000)	70.2	31.6	101.8	256	0.27	0.40	49.417	8 000	387	163	440
PJM without PJM								200	§	<u> </u>	₹
West (2002)			128.9	255		0 50		0			
PJM with PJM West				}		3		8,000			
(2002)	·		137.3	314		44.0		13.100			
New York	53.7	6.9	9.09	149	0.36	0.41	30.311	10 800	33	4	C
New England	55.7		7.22	13	970	9	000	000	3	D T	70
0913130			3	1	2 2 3	9	23,300	000.	323	2.65	55
			228.0	270		0. 28 .	45,990	25,526	¥	2.01	
ERCOT	6.4	77.4	122.1	281	0.16	44.0	57,606	37.000	250	0.80	137
Alberta TA and SC	6.3		21.4	Z		040	7 785	10 540	7.	7 7 7	<u> </u>
Ontario	57.6	28.4	86.0	150	0.39	0.58	23.428	18,000	417	270	133
Weighted Average \$/MWh RTO Carrying Cost	MWh RTO	Carrying Cos	it .			0.57				21:2	7,1
Weighted Average \$MWh RTO Carwing Cost Without CA ISO	MWh RTO	Camving Cos	A Without	001							

age Winven KIO Camying Cost, Without CA ISO

RTO West Benefit/Cost Study Final Report Tabors Caramanis & Associates March 11, 2002 Several items should be noted when applying these numbers to the relative net merits of RTO West.

- Numbers should be viewed as "ball park," given, for example, the averaging of dollar values from different years.
- Application of these values to an RTO West valuation requires judgment about the comparable level of effort required for RTO West.
- Various attributes are not distinguished in the preceding table:
 - ISO costs may include upgrades that would have occurred with or without the RTO:
 - Regional upgrades
 - SCADA upgrades
 - Y2k upgrades
 - RTO West costs are direct costs, not adjusted for parallel savings by the TOs
 or CAOs.
 - RTO West costs do not include the costs of stakeholder participation in the development process.

However, the table shows that the carrying costs of an RTO generally group fairly tightly. With the exception of California, which is broadly believed to have encountered unusually high startup costs, the other RTOs are relatively tightly grouped in a range of \$0.40/MWh to \$0.58/MWh. 41 The weighted average cost of the existing RTOs in North America is approximately \$0.45 to \$0.51, with the lower value representing the case in which California and Alberta are excluded from the mix.

Given the annual energy throughput expected for RTO West⁴² in 2004, per-unit costs such as these quoted above equate to approximately \$127 million to \$143 million per year, depending on whether California's costs are included in the mix or not.

As RTOs mature and more such organizations become operational, parties can hope that experience will drive startup and operating costs down. The data from ERCOT and Ontario do not necessary demonstrate that RTOs have yet benefited from this learning curve. Conversely, however, the startup of Ontario and ERCOT do suggest that costs are being contained rather than significantly increasing, as the California ISO's experience, taken alone, would have suggested. These data are therefore seen as solid benchmark for average ISO/RTO costs. To the extent that RTO West could "beat the averages" and start up and/or operate for less cost, the overall RTO West net benefits would increase.

⁴¹ Even the \$.58/MWh RTO, Ontario, is somewhat of an "outlier", with the next most costly RTO at \$.46, and represents a relatively small service area.

⁴² From the Energy Impact Analysis TCA estimated approximately 280 TWh annual energy.

actual costs, the studies summarized below do not break start-up RTO costs into their component costs. However, the four General Comment: With the exception of the SEARUC study, which looks at several benchmarks that could be drivers of studies do provide useful upper and lower bounds of costs projected and experienced by other RTOs and therefore an indication of the range within which WestConnect's costs are likely to be discussed.

Northeast RTO Costs and Benefits Assessment, ISO New England and New York ISO, May 14, 2002.

owner revenue losses of \$36 (SMD 1.0 in NE and SMD million must be recovered independently of NERTO Costs already committed Estimated Transmission million in NY and \$14 Cost of single dispatch 2.0 in NYISO) Explanation elsewhere solution Summary of Implementation Costs by Action Table ES-5, p.9 Cost (Millions \$) 35 - 60 85-100 NA Z Costs of RTO formation and Organizational Integration Markets/Eliminate Seams (Own: Not a startup cost) Eliminate Export Fees **NERTO Actions** Single Dispatch Standardize

The Benefits and Costs of Regional Transmission Organizations and Standard Market Design in the Southeast, Prepared for the Southeastern Association of Regulatory Utility Commissioners, Prepared by Charles River Associates (and GE Power Systems Energy Consulting), November 6, 2002.

Section II. B. Pgs. 22-24.

Costs are based on estimates supplied by the RTOs.

- "Day 1" RTO start-up costs are implementation costs short of SMD implementation.
 - "Day 2" Costs are those of implementing SMD

assumes similar costs for GridSouth (which did not provide detailed costs) as for GridFlorida. Takes mid-point of range of The cost breakdown for GridSouth and GridFlorida were based on more detailed costs provided by GridFlorida. The study potential costs provided by SeTrans (range for Day 1 costs of \$145 -170 million and Day 2 costs of \$55-60 million.

The studies assume no offsetting savings in transmission costs at the utilities as certain utilities estimated small savings from elimination of functions and others small incremental costs associated with additional interaction with the RTO. The analysis also considered whether there would be different costs should one Combined RTO be established for the entire region. "Conservatively" it was assumed that start-up costs would be the same as if three separate RTOs were created, though O&M expenses would be lower for the combined RTO.

Exhibit 6

Table 1 RTO Start-up and Operating Costs (in \$mm of dollars, except as otherwise noted)	d Operating C	osts (in \$mm of	dollars, except	as otherwise no	ted)
	GridSouth	GridFlorida	SeTrans	Total of 3 RTOs	1 Combined RTO
Without SMD					
1 Time Start-Up	186	186	158	530	530
Costs					
Annual O&M	46	46	58	150	95
2005 Revenue	68	68	95	274	217
Required			,		
\$/MWh of Load	0.43	0.45	0.22	0.32	0.26
With SMD					
1 Time Start-Up	244	244	215	703	703
Costs					
Annual O&M	09	09	75	195	123
2005 Revenue	118	118	127	362	289
Required					
\$/MWh of Load	0.55	0.58	0.28	0.42	0.33

RTO West Benefit/Cost Study: Final Report Presented to RTO West Filing Utilities, by Tabors Caramis & Associates. March 11, 2002,

Section 4.1. p. 36.

The October 2000 "RTO West Potential Benefits and Costs" report estimated the RTO West expected startup costs at \$82 million and the annual operating costs at \$50 million. They also collected data on actual expenses of other RTOs in the US and Canada and that data is the table below:

¹ All Values in \$,

Direct comparisons across regions must be undertaken with care. Some shared regional functions and cost responsibilities are handled outside of ISO cost structure.

Some of startup costs are not reflected or associated with previous tight pool structure and cost recovery

Cost values actual or projected for 2000 and 2001, except where noted

New England annual depreciation and interest costs are accounted for outside of the NE-ISO tariff structure

Ontario, PJM, New England and NY values from Ontario IMO Business Plan 2001-2003, No. 2000

NY ISO transition costs were obtained from the NY ISO Annual Report, 2000

ERCOT values taken from PUC of Texas Docket 23320 filings

Alberta values from Transmission Administrator and Power Pool of Alberta Annual Review/Report documents for 2000, and Cox Report and as provided by EAL professionals

Ontario startup costs based on 1999 – 2001 capital expenditures from the IMO Business Plan 2001 – 2003

ERCOT start-up costs based on 2000 - 2001 capital expenditures from "Year 2001 ERCOT Fund Summary" in Docket 23320 filings California data from 2001 and from "Participant Charges at Electricity Exchanges. Pools and ISO" Prepared for the Power Pool of Alberta by Paul Cox (12/29/00) and revised (5/9/01)/

PJM represented in several configurations in table each of which used in weighted averages.

Exhibit 6

	Annual	Annual	Total	Annual	Unit	Unit Revenue		Trans.	# FTE	Staffing	Start up
	O&M Costs	Amortized Depreciation	Annual Revenue	Energy (TWh)	O&M Costs	Requirements (\$/MWh)	Demand 2000	Miles	Employees		Costs (\$
	(\$ mm)	& Interest Costs (\$			(\$/MMh)						
		mms)						:			
PJM (2000)	70.2	31.6	101.8	256	0.27	0.40	49,417	8,000	384	1.50	140
PJM without			128.9	256		0.50		8,000			
PJM West (2002)											
PJM with			137.3	314		0.44		13,100			
PJM West											
(2002)								,			,
New York	53.7	6.9	9.09	149	0.36	0.41	30,311	10,800	222	1.49	82
New	55.7		55.7	122	0.46	0.46	23,300	7,000	323	2.65	55
England			3								
CalifiSO			228.0	022		.084	45,990	25,526	544	2.01	
ERCOT	44.6	77.4	122.1	281	0.16	0.44	27,606	37,000	250	68.0	137
Alberta TA	6.3		21.4	54		0.40	7,785	10,540	9/	1.41	
and SC											
Ontario	57.6	28.4	0.98	150	0.39	85.0	23.728	18,000	417	2.79	1.72
Weighted s	average	\$/MWh RT	Weighted average \$/MWh RTO Carrying Cost	; Cost			0.51				

Weighted average \$/MWh RTO Carrying Cost
Weighted average \$/MWh RTO Carrying Cost without CA ISA 0.45

- The RTO West study notes that judgment needed to apply resulting benchmarks to RTO West because:
 - o Different base year data was used for each region
- Certain attributes of different regions not noted, including that ISO costs may include upgrades that would have occurred with or without RTO formation, such as regional upgrades, SCADA upgrades and Y2k upgrades.
- The study assumes no parallel savings at any of the TOs or CAOs in the RTO.
- Costs do not include associated stakeholder participation costs.
- The study notes that CA is high in startup costs and that without CA that costs are relatively tightly grouped in a

Exhibit 6

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While the study also looks at operations of secondary exchanges and schedule coordinate functions but this summary does not address these costs as it assumes they are not considered Day 1 functions. Report to Congress: Impacts of the FERC's Proposal for Standard Market Design (and Appendices). DOE. April 30, 2003.

Costs to implement SMD, including establishment and operation of RTOs (p.17) are exhibited on a consolidated basis in the DOE report and shown on an annual basis as an annual revenue requirement.

While data is presented for each region of the country it is not broken out between start-up and ongoing costs and the estimates are drawn from other studies.

Summary table for RTO/SMD costs for 2005 in 2002 dollars

Table 3.2			
Region	RTO Annual Revenue Requirement (\$MM)	Annual Generation (TWhs)	RTO/SMD Costs (%s ner MWh)
ISO New England	63	130	0.48
NY ISO	135	163	0.83
PJM	287	702	0.41
MISO	155	784	0.20
SPP	33	80	0.41
RTO West	116	284	0.41
WestConnect RTO	34	82	0.41
California RTO	234	278	0.84
Rocky Mountain	. 22	54	0.41
SeTrans	117	463	0.25
GridSouth	109	219	0.50
GridFlorida	109	208	0.52
ŢVA	45	177	0.25
Total	1,457	3,623	0.40
Other Benchmarks:			
Ontario IMO	85.3	154	0.55
ERCOT	121.9	292	0.42

Notes to table provided in study, page 18.

Exhibit VGC-7 2005 TTC Cost Case Page 1 of 3

Volume No.

Official Stenographers Report

FEDERAL ENERGY REGULATORY COMMISSION

IN THE MATTER OF:

DOCKET NO:

ELECTRICITY MARKET DESIGN AND STRUCTURE

RM01-12-000

TECHNICAL CONFERENCE

LOCATION: WASHINGTON, D.C.

PAGES: 1

1 - 217

DATE:

WEDNESDAY, JANUARY 23, 2002

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Tage 2 of 3

- [23] QSE to be scheduled through the ERCOT ISO. [8] on inade. These QSEs must [9] Second!
- [24] self-provide all wholesale energy to serve their load, and
- [25] they can provide, don't have to but can provide their

Page 87

- [1] ancillary services. ERCOT does not operate an energy or
- [2] spot market, or a spot market. We simply deal with
- (3) schedules that the QSEs bring to us.
- [4] We do operate an ancillary service market for
- [5] those QSEs that do not self-provide their ancillary
- [6] services, and we operate a balancing energy market for the
- [7] whole interconnect. We'll talk a little bit about that in
- (8) minute
- [9] We then settle all wholesale energy accounting
- [10] between the QSEs and then the QSEs settle with their
- [11] individual competitive retailers.
- [12] (Slide.)
- [13] Feel free to ask questions anytime if you'd like
- [14] to. We've been asked why we went to single control
- area
- [15] operation within ERCOT. It was a long decision after a lot
- [16] of discussion. I think it was basically and foremost an
- [17] issue of fairness. We operated, as I said, a wholesale
- [18] competitive market for four-and-a-half years, and in that
- [19] time frame, we realized that control area generators and
- [20] control area load had an unfair advantage over non-control
- [21] area generation and load by virtue of scheduling balances
- [22] basically in order to control the frequency and do the
- [23] things control areas do, they used inadvertent energy to
- [24] settle their imbalances where the non-control area entities
- [25] often had some pretty stiff tariffs for their imbalances.

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- [1] We did work on ways to turn that into cash. We spent a lot
- [2] of time working on turning it into some form of financial
- [3] transactions. What we found was that in order, if you don't
- [4] penalize the control area for what it is supposed to do,
- [5] that is, to control the frequency and the transmission
- (6) unloading, it's really hard to come up with a financial tool
- [7] without really just sort of trading money in a circle based

- [8] on inadvertent energy.
- [9] Secondly, we did it for simplicity. We had ten
- [10] control areas. We knew that the competitive retailers would
- [11] be selling in more than one control area, and we just
- [12] realized it was simpler to settle as one control area rather
- [13] than first between ten, and then between the competitive
- [14] retailers within those control areas, and then within the
- [15] competitive retailers across control area lines. This way
- [16] we can do one settlement and it's accomplished.
- [17] Finally, it just fits the market. ERCOT has a
- [18] lot of functionality in the retail end that I'll talk a
- [19] little bit about in a minute, and since we do a lot of
- the
- [20] retail things, it just made sense to do them within one
- [21] control area rather than having to do it in ten separate
- (22) areas

got

- [23] MR. KELLY: Sam, question. What was the cost of
- (24) the conversion to a single control area and was it an
- [25] overnight conversion, or was it that as old equipment

Page 89

- [1] phased out, you moved to a central entity?
- [2] MR. JONES: It was a one-step conversion. We
- [3] actually installed new power and market operating systems
- [4] within the ERCOT facilities to operate as a single control
- [5] area. The QSEs that were created, many of which for the old
- [6] control areas which were generation control, in most cases
- [7] had to install new equipment. Some of the municipal and
- [8] coop control areas could make a conversion pretty much with
- [9] what they had, but there was quite a bit of new equipment, a
- [10] totally new system for ERCOT. As far as the cost, it would
- [11] be very difficult for me to break that out. It was a part
- [12] of our overall cost including our facilities, communications
- [13] and everything. The retail and the wholesale was so
- [14] intermixed, it's very difficult to say the exact cost for a
- [15] single control area conversion was a certain number
- of (16) dollars.
- [17] CHAIRMAN WOOD: What was the total, Sam, for
- [18] retail and wholesale?
- [19] MR. JONES: The total wholesale and retail
- [20] conversion cost was in the neighborhood of \$120

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million for

[21] facilities and systems.

(Slide.) [22]

[23] MR. JONES: How does the single control area [24] work? Well ERCOT is the frequency control point within our

[25] region. The QSEs do not control the frequency, they control

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[1] to a signal from ERCOT based on several elements

[2] basically ERCOT operations deploys balancing energy.

[3] regulation, and spinning reserves to control the frequency

[4] and the transmission loading of the interconnect.

[5] In order to accomplish that, we require the QSEs

[6] to submit day-ahead 15-minute interval balanced schedules to

[7] ERCOT. Every 15 minutes, they will designate their load and

[8] what resources or how much of their generating fleet will be

[9] used to meet that load. They can adjust those schedules at

[10] any time up to one hour ahead of real time based on their

[11] observing possible changes due to weather variations and

[12] also to correct for congestion if they want to do that.

They also submit day-ahead ancillary service bids [13]

[14] for providing ancillary services. They also designate how

[15] much of their own ancillary service requirements they will

[16] self-provide and how much ERCOT should procure for them off

[17] the market. They also submit balancing energy bids up to an

[18] hour ahead. We clear that market every 15 minutes for use

[19] 30 minutes ahead of when we clear it, because we have to

[20] have time to notify the QSEs they've been selected for them

[21] to arrange for the generation to occur. So using those [22] every 15 minutes for balancing energy, and then on a

[23] time basis, for regulation, we control the frequency of the

[24] grid. We also deploy balancing energy to accomplish that

[25] frequency control, but we also use it to control congestion,

Page 91

[1] zonal congestion on the grid, and we'll talk a little bit

more about that in a minute.

real

We can also do generating unit-specific

[4] instructions to do local congestion. Then finally we

[5] issue at any time verbal instructions to QSEs if needed for

[6] reliability purposes. We occasionally have to do that with

[7] a mis-load forecast or something that occurs in the system

[8] that needs correction on a very quick basis.

Our transmission service is probably a little bit

[10] different from what you're used to. All transmission

[11] service in ERCOT is network, postage stamp transmission

[12] service actually by our law. Senate Bill 7 that created นร

[13] specified that network service. All the load entities pay

[14] for their transmission service based on their load ratio

share. Basically, we take the annual transmission cost [15] of

[16] service as approved by the public utility commission and

[17] then divide that up on the load ratio share for the load.

[18] and they pay their share for the year. There's no charge

[19] for transmission service for any energy that does come in

[20] over the DC ties because it serves those load entities. But

[21] for any energy that goes out over the D.C. tie, there is

[22] formula for charging just for that short-term transmission

[23] usage

[24]

(Slide.)

All schedules submitted by the QSE to ERCOT flow. [25]

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We don't have reservations, we don't have priority of

[2] service, we don't refuse schedules. Basically, all

[3] schedules flow and it's possible because ERCOT operations is

[4] charged with managing the congestion that might result from

[5] those schedules. And again, we'll talk about congestion

[6] management in another slide. The cost of congestion at

[7] start-up which began July 31st last year was a general [8] uplift initially. We had no real estimate of what

[9] congestion costs would be. There was a lot of discussion.

(10) Finally, it was decided, as a general uplift, unless it

[11] reached \$20 million in any 12-month sliding window, then it

[12] would be directly assigned to those entities that caused the

[13] congestion.

[14] We started the market over the peak of the

[15] summer, we experienced an unusual number of

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RTO/ISO Operating Costs Comparative Analysis of

August 17, 2004

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