Empire District Electric Company
Case No. ER-2002-424
12-Months Ended Dec. 31, 2001

File Name: Maintenance Contract for SL1 - EC1 - EC2
Prepared By: PKW
Date Prepared: Aug 2, 2002
Date Printed: 8/13/2002
Time Printed: 12:43 PM

Sheet Name: Maint. To Meet Spec.
Maintenance to meet specifications for the Turbine Contract Maintenance

	Acct. No.	Total Expense
State Line 1, Energy Center 1 & 2 Maintenance to meet contract requirements:		
Energy Center 1	553.231	$ ** **
Energy Center 2	553.231	$ ** **
State Line 1	553.231	$ ** **
Total Cost to meet specifications		$ ** **
Divided by:		$ 7
Staff will normalize over 7 years the life of mintenance contracts.		$ ** **
Amount included in Test Year expense		$ -
Adjustment to Increase Test Year Expense		**$ ** **
Adjsutment No.		**S-34.4**

Source:
Company Response to Staff D.R. No.'s 242 and 243.
These items were not booked during the test year but were booked during the first 6 monts of 2002
Additional Painting costs which have began but are not complete have not been included in Staffs adjustments.

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Schedule BAM-2

Empire District Electric Company
Case No. ER-2002-424
12-Months Ended Dec. 31, 2002

File Name: Asbury Turbine Overhaul Annualization
Prepared By: PKW
Date Prepared: Aug. 5, 2002
Date Filed: 8/13/2002
Date Printed: 12:26 PM

Analysis of Asbury Maintenance Overhaul

Description	Account Number		
Asbury Maintenance outage.			
In Response to Staff Data Request No. 245 the Company stated the last was completed during 1996. This would make the last overhaul approximately 5 years ago. Therefore Staff will also use a 5 year normalization of the Asbury maintenance overhaul.			
The cost of the overhoul consist of 2 parts.			$ ** **
The first part is major outage and inspection costs			5
Normalized expense over 5 years.			$ ** **
Test Year Expenses:			
Previous Amortization charged to expense in test year.			
Jan. 01		$ ** **	
Feb. 01		$ ** **	
Mar. 01		$ ** **	
Apr. 01		$ ** **	
May 01		$ ** **	
Current Amortization charged to expense in test year.			
Dec. 01		$ ** **	
Total Test Year Expense		$ ** **	$ ** **
Adjusment to Test Year Experse	512.000		$ ** **
		Adjustment No.	**S-14.3**
Move of a Step-up transformer for safety.			
Cost to move the Transformer away from the plant for safety during outage.			$ ** **
Staff will normalize this cost over 5 years also.			5
Normalized over 5 Years			$ ** **
Charged the Transformer move to expense in Dec. 01			
Dec. 01			$ ** **
Adjustment to Test Year Expense.	570.000		$ ** **
		Adjsutment No.	**S-47.3**

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THE EMPIRE DISTRICT ELECTRIC COMPANY

HISTORICAL OPERATING AND MAINTENANCE EXPENSES

	2003	2002	2001	2000	1999	5-Yr Avg
Ozark Beach - Other	277,155	307,249	182,744	268,210	288,551	264,782
Asbury - Other	2,968,854	2,696,268	2,922,751	2,401,555	2,710,452	2,739,976
Riverton - Other	2,046,667	1,027,668	682,696	1,154,464	522,600	1,086,819
State Line - Other	778,273	1,651,201	611,555	371,032	956,934	873,799
Energy Center - Other	973,128	2,705,695	1,506,667	408,114	1,516,400	1,422,001
Iatan - Other	1,589,087	1,496,241	1,225,529	1,563,588	945,396	1,363,968
Energy Trading - Other	339,445	276,006	802,110	1,343,421	1,569,577	866,112
Energy Service Support - Other	55,247	43,732	1,253	29,699	1,179	26,222
SLCC - Other (100%)	4,393,769	9,237,565	5,055,107	-	-	6,228,814
Total Energy Supply - Other	**13,421,628**	**19,441,624**	**12,990,412**	**7,540,083**	**8,511,088**	**14,872,492**

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THE EMPIRE DISTRICT ELECTRIC COMPANY

SUMMARY OF OPERATING AND MAINTENANCE ADJUSTMENTS

Riverton Other		**Various Accounts**
2003 Expenditures	2,046,667	
5-Yr Average	1,086,819	
Adjustment	**(959,848)**	
Energy Center 3 & 4 Full Year of Operation		**Various Accounts**
Cost of Consumables for Annual Inpsections x 2 units	** **	
25,000 Hour Inspection Levelized over 20 years x 2 units (1250 Hrs operation per year)	** **	
Adjustment	** **	
Generator Inspection		**Various Accounts**
None performed in 2003.		
recommends 5-yr inspections		
Estimated cost of generator inspection	**500,000**	
Total Other Adjustments (100% SLCC)	**1,648,036**	
Total O&M Adjustments (60% SLCC)	**1,008,204**	

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THE EMPIRE DISTRICT ELECTRIC COMPANY

SUMMARY OF OPERATING AND MAINTENANCE ADJUSTMENTS

Double Accrual of LTP Credit at SLCC		**Account No. 553.160**
2003 Expensed LTP Costs	** **	
Adjusted for 4200 EBH/CT + inflation	** **	CPI June 01 - 178
Fixed 120,000 per yr + inflation	** **	CPI Dec 03 - 184.3
Total	** **	
Adjustment	** **	100%
	** **	Empire's 60% share

Amortization of OPSA Catch-Up Payments		**Account No. 553.231**
Enegy Center 1	** **	
Enegy Center 2	** **	
State Line 1	** **	
	** **	
Amoritized over 7 yrs (Starting in 2002)	** **	

See Adjustment No. S-34.4 / Phil Williams work papers

Amortization of Asbury Transformer		**Account No. 570.000**
Transformer Moving Costs (Dec '01)	677,102	
Amortized over 5 years (Starting in 2002)	**135,420**	

See Adjustment No. S-47.3 / Phil Williams work papers

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THE EMPIRE DISTRICT ELECTRIC COMPANY

SLCC LTP Debit/Credit Accrual

July 2003 - June 2004

	July-03	August-03	September-03	October-03	November-03	December-03	January-04	February-04	March-04	April-04	May-04	June-04	Total Estimated/Actual
Budget													
Budgeted Starts	7	7	3	1	6	2	4	4	6	2	3	7	52
Budgeted Start Mult	5.0	5.0	5.0	7.0	8.0	5.0	5.0	5.0	5.0	5.0	7.0	7.0	5.8
Budgeted Eq. Starts	35	35	15	7	48	10	20	20	30	10	21	49	300
Budget Plus Actual E.S	293	262	247	240	194	186	166	146	116	106	85	36	
Budget EBH	1,284	1,280	769	339	380	1,084	1,185	1,175	823	341	798	1,099	10,557
Budget Plus Actual EBH	10,411	10,522	9,753	9,414	9,164	8,339	7,154	5,979	5,156	4,815	4,017	2,918	
Actual													
Actual Eq. Starts	28	4	0	0	2	2							36
Cycle to Date ES	28	32	32	32	34	36	36	36	36	36	36	36	
Actual EBH	1,138	1,391	0	0	130	259							
Cycle to Date EBH	1,138	2,529	2,529	2,529	2,659	2,918	2,918	2,918	2,918	2,918	2,918	2,918	
Ratio (X = EBH/ES)	41	79	79	79	78	81	81	81	81	81	81	81	
Contract													
Contract $/Eq. Start	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
Contract $/EBH if X>30	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **	** **
Contract $/EBH if 20<X>30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Contract Pymt	**	**	**	**	**	**	**	**	**	**	**	**	** **
Budgeted Dollars													
Budgeted Pymt	**	**	**	**	**	**	**	**	**	**	**	**	** **
Budgeted Monthly Debit/Credit	**	**	**	**	**	**	**	**	**	**	**	**	** **
Accrued Dollars													
Accrued Monthly Payment (X<20)	268,583	230,452	201,888	180,173	101,288	61,363							
Accrued Monthly Payment (X>30)	347,033	351,084	320,324	305,258	292,758	245,615							
Accrued Monthly Payment (20<X>30)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Actual Accrued Monthly Expense	347,033	351,084	320,324	305,258	292,758	245,615							1,862,072
Accrued Debit/Credit	-111,300	-107,249	-138,009	-153,076	-165,576	-212,719							-887,928
Cumulative Accrued Expense	347,033	698,118	1,018,442	1,323,699	1,616,457	1,862,072	1,862,072	1,862,072	1,862,072	1,862,072	1,862,072	1,862,072	
Cumulative Accrued Debit/Credit	-111,300	-218,549	-356,558	-509,634	-675,210	-887,928	-887,928	-887,928	-887,928	-887,928	-887,928	-887,928	
Months left in year (for averaging)	12	11	10	9	8	7	6	5	4	3	2	1	

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