CA-IR-361

Ref: HECO Rule No. 16, Interruption of Service

According to the Rule, the Company is to provide semiannual notification of the customers' right to file compensation claims associated with any interruption of service and any such customer claims must be filed within 30 days of the interruption to be valid. Please provide a statement of all submitted customer claims pursuant to this Rule since January 1, 2000 and explain the resolution of each such claim, indicating any charges by NARUC account that were incurred by the Company.

HECO Response:

Costs for these liability claims are included in the totals for NARUC Account 925.02 shown in HECO-1401, page 3 and HECO-1404, page 1, Docket No. 04-0113. A listing by claim of all requested information are provided on pages 2 to 177. Since the list is voluminous, only one copy each will be provided to the Consumer Advocate and Commission under separate transmittal. Annual totals as of March 22, 2005 are:

YEAR	No. Claims	No. Paid	Amount Incurred	Amount Paid
2000	814	380	$356,826	$356,826
2001	1,076	562	$317,601	$317,601
2002	811	362	$412,044	$326,544
2003	933	499	$448,139	$353,501
2004	1,355	400	$508,578	$317,181
2005	143	32	$103,113	$26,107

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007652-00	1/2/2000	Final	0.00	0.00	0.00
011-0000007656-00	1/4/2000	Final	988.52	988.52	0.00
011-0000007661-00	1/5/2000	Final	752.22	752.22	0.00
011-0000007662-00	1/6/2000	Final	0.00	0.00	0.00
011-0000007663-00	1/7/2000	Final	0.00	0.00	0.00
011-0000007667-00	1/7/2000	Final	0.00	0.00	0.00
011-0000007678-00	1/6/2000	Final	240.00	240.00	0.00
011-0000007679-00	1/7/2000	Final	84.71	84.71	0.00
011-0000007681-00	1/7/2000	Final	266.75	266.75	0.00
011-0000007682-00	1/7/2000	Final	0.00	0.00	0.00
011-0000007683-00	1/7/2000	Final	1,848.48	1,848.48	0.00
011-0000007684-00	1/7/2000	Final	691.91	691.91	0.00
011-0000007685-00	1/7/2000	Final	990.93	990.93	0.00
011-0000007686-00	1/7/2000	Final	289.83	289.83	0.00
011-0000007687-00	1/7/2000	Final	149.44	149.44	0.00
011-0000007688-00	1/10/2000	Final	0.00	0.00	0.00
011-0000007689-00	1/7/2000	Final	101.20	101.20	0.00
011-0000007690-00	1/7/2000	Final	1,809.98	1,809.98	0.00
011-0000007691-00	1/8/2000	Final	639.35	639.35	0.00
011-0000007692-00	1/7/2000	Final	1,132.16	1,132.16	0.00
011-0000007693-00	1/7/2000	Final	107.17	107.17	0.00
011-0000007694-00	1/12/2000	Final	0.00	0.00	0.00
011-0000007697-00	1/13/2000	Final	63.20	63.20	0.00
011-0000007698-00	1/13/2000	Final	0.00	0.00	0.00
011-0000007699-00	1/7/2000	Final	0.00	0.00	0.00
011-0000007700-00	1/12/2000	Final	541.33	541.33	0.00
011-0000007701-00	1/13/2000	Final	100.00	100.00	0.00
011-0000007702-00	1/14/2000	Final	0.00	0.00	0.00
011-0000007703-00	1/15/2000	Final	914.80	914.80	0.00
011-0000007704-00	1/6/2000	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007705-00	1/7/2000	Final	0.00	0.00	0.00
011-0000007706-00	1/14/2000	Final	1,528.29	1,528.29	0.00
011-0000007707-00	1/7/2000	Final	115.75	115.75	0.00
011-0000007708-00	1/13/2000	Final	217.62	217.62	0.00
011-0000007709-00	1/14/2000	Final	0.00	0.00	0.00
011-0000007710-00	1/19/2000	Final	736.17	736.17	0.00
011-0000007712-00	1/18/2000	Final	0.00	0.00	0.00
011-0000007713-00	1/14/2000	Final	332.59	332.59	0.00
011-0000007714-00	1/19/2000	Final	489.31	489.31	0.00
011-0000007715-00	1/19/2000	Final	0.00	0.00	0.00
011-0000007721-00	1/7/2000	Final	142.49	142.49	0.00
011-0000007722-00	1/19/2000	Final	572.00	572.00	0.00
011-0000007723-00	1/20/2000	Final	131.71	131.71	0.00
011-0000007724-00	1/20/2000	Final	0.00	0.00	0.00
011-0000007725-00	1/14/2000	Final	0.00	0.00	0.00
011-0000007726-00	1/19/2000	Final	0.00	0.00	0.00
011-0000007727-00	1/21/2000	Final	180.00	180.00	0.00
011-0000007728-00	1/20/2000	Final	445.66	445.66	0.00
011-0000007729-00	1/22/2000	Final	78.13	78.13	0.00
011-0000007730-00	1/13/2000	Final	0.00	0.00	0.00
011-0000007731-00	1/24/2000	Final	0.00	0.00	0.00
011-0000007732-00	1/24/2000	Final	0.00	0.00	0.00
011-0000007733-00	1/1/2000	Final	0.00	0.00	0.00
011-0000007734-00	1/26/2000	Final	0.00	0.00	0.00
011-0000007735-00	1/15/2000	Final	0.00	0.00	0.00
011-0000007736-00	1/13/2000	Final	0.00	0.00	0.00
011-0000007737-00	1/25/2000	Final	240.00	240.00	0.00
011-0000007738-00	1/27/2000	Final	0.00	0.00	0.00
011-0000007742-00	1/6/2000	Final	1,487.73	1,487.73	0.00
011-0000007743-00	1/27/2000	Final	240.00	240.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007744-00	1/30/2000	Final	89.34	89.34	0.00
011-0000007748-00	1/29/2000	Final	1,438.47	1,438.47	0.00
011-0000007749-00	1/16/2000	Final	0.00	0.00	0.00
011-0000007751-00	1/17/2000	Final	0.00	0.00	0.00
011-0000007753-00	1/19/2000	Final	257.51	257.51	0.00
011-0000007758-00	2/2/2000	Final	170.86	170.86	0.00
011-0000007760-00	1/13/2000	Final	283.60	283.60	0.00
011-0000007761-00	1/19/2000	Final	212.71	212.71	0.00
011-0000007762-00	2/3/2000	Final	0.00	0.00	0.00
011-0000007763-00	2/2/2000	Final	0.00	0.00	0.00
011-0000007764-00	2/5/2000	Final	0.00	0.00	0.00
011-0000007765-00	2/6/2000	Final	0.00	0.00	0.00
011-0000007766-00	1/7/2000	Final	0.00	0.00	0.00
011-0000007767-00	1/13/2000	Final	570.74	570.74	0.00
011-0000007768-00	1/13/2000	Final	125.00	125.00	0.00
011-0000007769-00	1/27/2000	Final	193.82	193.82	0.00
011-0000007770-00	2/7/2000	Final	800.00	800.00	0.00
011-0000007771-00	1/19/2000	Final	0.00	0.00	0.00
011-0000007772-00	2/7/2000	Final	0.00	0.00	0.00
011-0000007773-00	2/7/2000	Final	143.23	143.23	0.00
011-0000007774-00	1/19/2000	Final	0.00	0.00	0.00
011-0000007775-00	2/5/2000	Final	306.63	306.63	0.00
011-0000007777-00	1/13/2000	Final	225.00	225.00	0.00
011-0000007778-00	2/10/2000	Final	80.00	80.00	0.00
011-0000007779-00	2/14/2000	Final	0.00	0.00	0.00
011-0000007780-00	2/10/2000	Final	50.00	50.00	0.00
011-0000007784-00	2/13/2000	Final	0.00	0.00	0.00
011-0000007785-00	2/14/2000	Final	0.00	0.00	0.00
011-0000007786-00	1/14/2000	Final	0.00	0.00	0.00
011-0000007787-00	2/15/2000	Final	582.43	582.43	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007788-00	2/6/2000	Final	230.30	230.30	0.00
011-0000007789-00	2/15/2000	Final	3,897.78	3,897.78	0.00
011-0000007790-00	2/18/2000	Final	0.00	0.00	0.00
011-0000007791-00	2/18/2000	Final	0.00	0.00	0.00
011-0000007792-00	2/21/2000	Final	0.00	0.00	0.00
011-0000007793-00	2/18/2000	Final	0.00	0.00	0.00
011-0000007794-00	2/17/2000	Final	8,198.66	8,198.66	0.00
011-0000007795-00	2/21/2000	Final	483.85	483.85	0.00
011-0000007796-00	2/19/2000	Final	303.75	303.75	0.00
011-0000007797-00	2/5/2000	Final	0.00	0.00	0.00
011-0000007798-00	2/8/2000	Final	0.00	0.00	0.00
011-0000007799-00	2/19/2000	Final	0.00	0.00	0.00
011-0000007800-00	2/17/2000	Final	0.00	0.00	0.00
011-0000007801-00	2/22/2000	Final	0.00	0.00	0.00
011-0000007802-00	2/23/2000	Final	1,606.27	1,606.27	0.00
011-0000007803-00	2/23/2000	Final	0.00	0.00	0.00
011-0000007804-00	1/7/2000	Final	117.38	117.38	0.00
011-0000007805-00	2/21/2000	Final	0.00	0.00	0.00
011-0000007806-00	2/22/2000	Final	331.08	331.08	0.00
011-0000007807-00	2/22/2000	Final	1,369.20	1,369.20	0.00
011-0000007809-00	2/22/2000	Final	70.00	70.00	0.00
011-0000007810-00	2/16/2000	Final	0.00	0.00	0.00
011-0000007811-00	2/4/2000	Final	1,061.92	1,061.92	0.00
011-0000007812-00	2/24/2000	Final	50.00	50.00	0.00
011-0000007813-00	2/29/2000	Final	0.00	0.00	0.00
011-0000007814-00	2/18/2000	Final	240.00	240.00	0.00
011-0000007815-00	2/23/2000	Final	240.00	240.00	0.00
011-0000007816-00	2/27/2000	Final	0.00	0.00	0.00
011-0000007817-00	2/17/2000	Final	0.00	0.00	0.00
011-0000007818-00	2/29/2000	Final	75.00	75.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007819-00	2/13/2000	Final	0.00	0.00	0.00
011-0000007831-00	2/28/2000	Final	0.00	0.00	0.00
011-0000007832-00	2/14/2000	Final	495.78	495.78	0.00
011-0000007834-00	3/2/2000	Final	0.00	0.00	0.00
011-0000007835-00	2/21/2000	Final	75.25	75.25	0.00
011-0000007836-00	3/3/2000	Final	0.00	0.00	0.00
011-0000007838-00	2/14/2000	Final	144.00	144.00	0.00
011-0000007839-00	2/29/2000	Final	0.00	0.00	0.00
011-0000007841-00	1/20/2000	Final	1,585.25	1,585.25	0.00
011-0000007842-00	3/5/2000	Final	0.00	0.00	0.00
011-0000007843-00	3/10/2000	Final	0.00	0.00	0.00
011-0000007844-00	2/21/2000	Final	0.00	0.00	0.00
011-0000007847-00	3/11/2000	Final	714.77	714.77	0.00
011-0000007850-00	3/18/2000	Final	287.50	287.50	0.00
011-0000007851-00	3/20/2000	Final	0.00	0.00	0.00
011-0000007852-00	3/19/2000	Final	0.00	0.00	0.00
011-0000007854-00	3/18/2000	Final	56,088.80	56,088.80	0.00
011-0000007859-00	3/18/2000	Final	0.00	0.00	0.00
011-0000007860-00	3/20/2000	Final	0.00	0.00	0.00
011-0000007861-00	3/21/2000	Final	0.00	0.00	0.00
011-0000007862-00	3/21/2000	Final	0.00	0.00	0.00
011-0000007864-00	3/18/2000	Final	3,229.31	3,229.31	0.00
011-0000007865-00	3/21/2000	Final	0.00	0.00	0.00
011-0000007866-00	3/18/2000	Final	0.00	0.00	0.00
011-0000007867-00	3/23/2000	Final	0.00	0.00	0.00
011-0000007868-00	3/22/2000	Final	0.00	0.00	0.00
011-0000007870-00	3/21/2000	Final	0.00	0.00	0.00
011-0000007873-00	3/20/2000	Final	0.00	0.00	0.00
011-0000007874-00	3/15/2000	Final	0.00	0.00	0.00
011-0000007875-00	3/26/2000	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007878-00	3/23/2000	Final	496.64	496.64	0.00
011-0000007879-00	3/26/2000	Final	135.00	135.00	0.00
011-0000007881-00	3/18/2000	Final	1,838.59	1,838.59	0.00
011-0000007882-00	3/26/2000	Final	0.00	0.00	0.00
011-0000007884-00	3/26/2000	Final	0.00	0.00	0.00
011-0000007886-00	3/26/2000	Final	0.00	0.00	0.00
011-0000007887-00	3/20/2000	Final	0.00	0.00	0.00
011-0000007888-00	3/28/2000	Final	0.00	0.00	0.00
011-0000007889-00	3/17/2000	Final	0.00	0.00	0.00
011-0000007890-00	3/27/2000	Final	0.00	0.00	0.00
011-0000007896-00	4/2/2000	Final	574.45	574.45	0.00
011-0000007897-00	3/31/2000	Final	0.00	0.00	0.00
011-0000007898-00	4/2/2000	Final	85.00	85.00	0.00
011-0000007899-00	4/3/2000	Final	130.21	130.21	0.00
011-0000007900-00	3/29/2000	Final	0.00	0.00	0.00
011-0000007901-00	4/3/2000	Final	0.00	0.00	0.00
011-0000007902-00	4/2/2000	Final	118.75	118.75	0.00
011-0000007903-00	4/2/2000	Final	0.00	0.00	0.00
011-0000007904-00	3/22/2000	Final	0.00	0.00	0.00
011-0000007905-00	4/1/2000	Final	150.00	150.00	0.00
011-0000007906-00	4/1/2000	Final	0.00	0.00	0.00
011-0000007908-00	3/23/2000	Final	0.00	0.00	0.00
011-0000007909-00	3/2/2000	Final	0.00	0.00	0.00
011-0000007910-00	3/18/2000	Final	0.00	0.00	0.00
011-0000007911-00	3/18/2000	Final	0.00	0.00	0.00
011-0000007912-00	3/26/2000	Final	100.00	100.00	0.00
011-0000007913-00	4/2/2000	Final	446.01	446.01	0.00
011-0000007914-00	4/2/2000	Final	0.00	0.00	0.00
011-0000007915-00	4/1/2000	Final	0.00	0.00	0.00
011-0000007916-00	4/3/2000	Final	217.72	217.72	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007917-00	4/3/2000	Final	0.00	0.00	0.00
011-0000007918-00	4/3/2000	Final	158.00	158.00	0.00
011-0000007919-00	4/1/2000	Final	0.00	0.00	0.00
011-0000007920-00	4/4/2000	Final	2,401.02	2,401.02	0.00
011-0000007921-00	3/28/2000	Final	81.00	81.00	0.00
011-0000007922-00	3/22/2000	Final	0.00	0.00	0.00
011-0000007923-00	4/4/2000	Final	0.00	0.00	0.00
011-0000007924-00	4/3/2000	Final	0.00	0.00	0.00
011-0000007925-00	4/5/2000	Final	240.00	240.00	0.00
011-0000007926-00	4/2/2000	Final	0.00	0.00	0.00
011-0000007927-00	1/13/2000	Final	0.00	0.00	0.00
011-0000007928-00	4/5/2000	Final	0.00	0.00	0.00
011-0000007931-00	4/5/2000	Final	0.00	0.00	0.00
011-0000007932-00	4/4/2000	Final	342.02	342.02	0.00
011-0000007934-00	4/10/2000	Final	93.00	93.00	0.00
011-0000007935-00	4/12/2000	Final	0.00	0.00	0.00
011-0000007936-00	4/12/2000	Final	0.00	0.00	0.00
011-0000007938-00	4/11/2000	Final	0.00	0.00	0.00
011-0000007939-00	3/29/2000	Final	0.00	0.00	0.00
011-0000007940-00	4/12/2000	Final	2,772.00	2,772.00	0.00
011-0000007941-00	4/9/2000	Final	583.35	583.35	0.00
011-0000007942-00	4/12/2000	Final	125.00	125.00	0.00
011-0000007943-00	4/4/2000	Final	0.00	0.00	0.00
011-0000007944-00	3/12/2000	Final	0.00	0.00	0.00
011-0000007945-00	4/13/2000	Final	93.54	93.54	0.00
011-0000007946-00	4/12/2000	Final	0.00	0.00	0.00
011-0000007947-00	4/1/2000	Final	1,016.66	1,016.66	0.00
011-0000007948-00	4/3/2000	Final	571.08	571.08	0.00
011-0000007949-00	3/18/2000	Final	379.60	379.60	0.00
011-0000007950-00	4/17/2000	Final	2,639.69	2,639.69	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007952-00	4/17/2000	Final	1,888.56	1,888.56	0.00
011-0000007953-00	4/12/2000	Final	0.00	0.00	0.00
011-0000007954-00	4/17/2000	Final	4,010.15	4,010.15	0.00
011-0000007955-00	4/17/2000	Final	1,383.61	1,383.61	0.00
011-0000007956-00	4/12/2000	Final	0.00	0.00	0.00
011-0000007957-00	3/1/2000	Final	0.00	0.00	0.00
011-0000007958-00	4/16/2000	Final	341.76	341.76	0.00
011-0000007959-00	3/18/2000	Final	0.00	0.00	0.00
011-0000007960-00	4/12/2000	Final	0.00	0.00	0.00
011-0000007961-00	4/16/2000	Final	773.91	773.91	0.00
011-0000007962-00	3/24/2000	Final	0.00	0.00	0.00
011-0000007963-00	4/19/2000	Final	0.00	0.00	0.00
011-0000007965-00	4/22/2000	Final	220.98	220.98	0.00
011-0000007966-00	4/20/2000	Final	0.00	0.00	0.00
011-0000007968-00	4/8/2000	Final	0.00	0.00	0.00
011-0000007969-00	4/12/2000	Final	281.89	281.89	0.00
011-0000007970-00	4/18/2000	Final	0.00	0.00	0.00
011-0000007971-00	4/12/2000	Final	0.00	0.00	0.00
011-0000007972-00	4/2/2000	Final	0.00	0.00	0.00
011-0000007973-00	4/23/2000	Final	0.00	0.00	0.00
011-0000007975-00	4/23/2000	Final	0.00	0.00	0.00
011-0000007976-00	4/23/2000	Final	612.06	612.06	0.00
011-0000007977-00	4/21/2000	Final	946.72	946.72	0.00
011-0000007978-00	4/17/2000	Final	100.00	100.00	0.00
011-0000007979-00	3/19/2000	Final	100.00	100.00	0.00
011-0000007981-00	3/7/2000	Final	100.00	100.00	0.00
011-0000007982-00	4/23/2000	Final	0.00	0.00	0.00
011-0000007983-00	4/17/2000	Final	1,082.00	1,082.00	0.00
011-0000007984-00	4/25/2000	Final	520.00	520.00	0.00
011-0000007985-00	3/10/2000	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000007986-00	4/14/2000	Final	98.96	98.96	0.00
011-0000007987-00	4/23/2000	Final	0.00	0.00	0.00
011-0000007988-00	4/24/2000	Final	1,302.09	1,302.09	0.00
011-0000007989-00	4/24/2000	Final	597.83	597.83	0.00
011-0000007991-00	4/26/2000	Final	0.00	0.00	0.00
011-0000007992-00	4/27/2000	Final	1,796.00	1,796.00	0.00
011-0000007993-00	3/27/2000	Final	0.00	0.00	0.00
011-0000007994-00	4/23/2000	Final	20.82	20.82	0.00
011-0000007995-00	1/5/2000	Final	0.00	0.00	0.00
011-0000007996-00	4/26/2000	Final	0.00	0.00	0.00
011-0000007997-00	4/2/2000	Final	1,115.92	1,115.92	0.00
011-0000007998-00	4/27/2000	Final	0.00	0.00	0.00
011-0000008000-00	4/24/2000	Final	2,437.00	2,437.00	0.00
011-0000008001-00	5/3/2000	Final	709.76	709.76	0.00
011-0000008002-00	2/8/2000	Final	76.16	76.16	0.00
011-0000008004-00	5/3/2000	Final	0.00	0.00	0.00
011-0000008011-00	4/24/2000	Final	0.00	0.00	0.00
011-0000008012-00	5/5/2000	Final	0.00	0.00	0.00
011-0000008013-00	4/23/2000	Final	0.00	0.00	0.00
011-0000008015-00	5/4/2000	Final	0.00	0.00	0.00
011-0000008016-00	4/24/2000	Final	468.69	468.69	0.00
011-0000008019-00	5/9/2000	Final	0.00	0.00	0.00
011-0000008022-00	5/3/2000	Final	61.36	61.36	0.00
011-0000008023-00	5/9/2000	Final	0.00	0.00	0.00
011-0000008024-00	5/7/2000	Final	0.00	0.00	0.00
011-0000008025-00	3/23/2000	Final	0.00	0.00	0.00
011-0000008026-00	5/15/2000	Final	0.00	0.00	0.00
011-0000008027-00	5/9/2000	Final	0.00	0.00	0.00
011-0000008028-00	5/16/2000	Final	0.00	0.00	0.00
011-0000008029-00	5/1/2000	Final	749.97	749.97	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008035-00	5/20/2000	Final	350.00	350.00	0.00
011-0000008036-00	5/20/2000	Final	136.58	136.58	0.00
011-0000008037-00	5/20/2000	Final	67.71	67.71	0.00
011-0000008038-00	5/20/2000	Final	2,705.10	2,705.10	0.00
011-0000008039-00	5/19/2000	Final	240.00	240.00	0.00
011-0000008040-00	5/20/2000	Final	4,921.24	4,921.24	0.00
011-0000008041-00	5/22/2000	Final	0.00	0.00	0.00
011-0000008043-00	5/20/2000	Final	0.00	0.00	0.00
011-0000008044-00	5/23/2000	Final	0.00	0.00	0.00
011-0000008045-00	5/26/2000	Final	186.46	186.46	0.00
011-0000008046-00	5/28/2000	Final	45.00	45.00	0.00
011-0000008047-00	5/27/2000	Final	0.00	0.00	0.00
011-0000008048-00	5/27/2000	Final	83.33	83.33	0.00
011-0000008049-00	5/20/2000	Final	0.00	0.00	0.00
011-0000008050-00	5/7/2000	Final	0.00	0.00	0.00
011-0000008051-00	4/1/2000	Final	0.00	0.00	0.00
011-0000008052-00	5/26/2000	Final	0.00	0.00	0.00
011-0000008053-00	1/1/2000	Final	0.00	0.00	0.00
011-0000008054-00	5/28/2000	Final	0.00	0.00	0.00
011-0000008055-00	5/29/2000	Final	361.47	361.47	0.00
011-0000008056-00	5/31/2000	Final	0.00	0.00	0.00
011-0000008057-00	5/14/2000	Final	0.00	0.00	0.00
011-0000008058-00	5/27/2000	Final	0.00	0.00	0.00
011-0000008059-00	4/4/2000	Final	0.00	0.00	0.00
011-0000008062-00	5/28/2000	Final	0.00	0.00	0.00
011-0000008063-00	5/28/2000	Final	64.06	64.06	0.00
011-0000008064-00	5/27/2000	Final	0.00	0.00	0.00
011-0000008065-00	6/5/2000	Final	3,368.58	3,368.58	0.00
011-0000008066-00	6/5/2000	Final	1,530.12	1,530.12	0.00
011-0000008067-00	6/5/2000	Final	1,966.83	1,966.83	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008068-00	6/5/2000	Final	2,569.47	2,569.47	0.00
011-0000008070-00	6/4/2000	Final	0.00	0.00	0.00
011-0000008071-00	5/28/2000	Final	0.00	0.00	0.00
011-0000008072-00	6/5/2000	Final	543.76	543.76	0.00
011-0000008073-00	6/5/2000	Final	534.57	534.57	0.00
011-0000008074-00	6/7/2000	Final	6,664.26	6,664.26	0.00
011-0000008075-00	6/5/2000	Final	1,282.78	1,282.78	0.00
011-0000008076-00	5/25/2000	Final	60.00	60.00	0.00
011-0000008077-00	6/12/2000	Final	0.00	0.00	0.00
011-0000008078-00	6/11/2000	Final	104.16	104.16	0.00
011-0000008079-00	5/28/2000	Final	0.00	0.00	0.00
011-0000008080-00	6/5/2000	Final	3,817.85	3,817.85	0.00
011-0000008081-00	5/30/2000	Final	563.77	563.77	0.00
011-0000008082-00	6/13/2000	Final	0.00	0.00	0.00
011-0000008083-00	6/10/2000	Final	0.00	0.00	0.00
011-0000008084-00	6/5/2000	Final	0.00	0.00	0.00
011-0000008085-00	6/12/2000	Final	0.00	0.00	0.00
011-0000008088-00	5/22/2000	Final	0.00	0.00	0.00
011-0000008089-00	6/21/2000	Final	1,191.00	1,191.00	0.00
011-0000008095-00	6/15/2000	Final	194.00	194.00	0.00
011-0000008096-00	6/12/2000	Final	0.00	0.00	0.00
011-0000008097-00	6/22/2000	Final	4,135.51	4,135.51	0.00
011-0000008098-00	5/26/2000	Final	0.00	0.00	0.00
011-0000008100-00	6/23/2000	Final	0.00	0.00	0.00
011-0000008102-00	6/23/2000	Final	0.00	0.00	0.00
011-0000008104-00	6/16/2000	Final	11,380.37	11,380.37	0.00
011-0000008110-00	6/23/2000	Final	264.00	264.00	0.00
011-0000008111-00	5/13/2000	Final	273.43	273.43	0.00
011-0000008112-00	6/7/2000	Final	0.00	0.00	0.00
011-0000008114-00	6/17/2000	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008116-00	6/27/2000	Final	0.00	0.00	0.00
011-0000008117-00	6/2/2000	Final	0.00	0.00	0.00
011-0000008118-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008119-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008120-00	7/2/2000	Final	9.00	9.00	0.00
011-0000008121-00	7/2/2000	Final	34.98	34.98	0.00
011-0000008122-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008123-00	7/2/2000	Final	125.82	125.82	0.00
011-0000008124-00	6/27/2000	Final	301.88	301.88	0.00
011-0000008125-00	6/29/2000	Final	145.83	145.83	0.00
011-0000008126-00	7/2/2000	Final	197.00	197.00	0.00
011-0000008127-00	7/2/2000	Final	79.17	79.17	0.00
011-0000008128-00	5/20/2000	Final	1,020.87	1,020.87	0.00
011-0000008129-00	7/4/2000	Final	0.00	0.00	0.00
011-0000008130-00	6/28/2000	Final	100.00	100.00	0.00
011-0000008134-00	7/6/2000	Final	0.00	0.00	0.00
011-0000008135-00	6/21/2000	Final	1.00	1.00	0.00
011-0000008137-00	6/28/2000	Final	35.00	35.00	0.00
011-0000008138-00	7/6/2000	Final	191.25	191.25	0.00
011-0000008139-00	7/5/2000	Final	0.00	0.00	0.00
011-0000008140-00	7/2/2000	Final	50.00	50.00	0.00
011-0000008141-00	7/9/2000	Final	59.20	59.20	0.00
011-0000008142-00	7/2/2000	Final	219.00	219.00	0.00
011-0000008143-00	7/9/2000	Final	0.00	0.00	0.00
011-0000008144-00	7/1/2000	Final	390.00	390.00	0.00
011-0000008145-00	7/2/2000	Final	100.00	100.00	0.00
011-0000008146-00	7/9/2000	Final	100.00	100.00	0.00
011-0000008147-00	7/4/2000	Final	360.43	360.43	0.00
011-0000008148-00	7/6/2000	Final	420.40	420.40	0.00
011-0000008149-00	7/2/2000	Final	90.00	90.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008150-00	7/9/2000	Final	349.96	349.96	0.00
011-0000008151-00	7/2/2000	Final	639.55	639.55	0.00
011-0000008152-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008153-00	7/9/2000	Final	155.86	155.86	0.00
011-0000008154-00	7/9/2000	Final	0.00	0.00	0.00
011-0000008155-00	6/19/2000	Final	0.00	0.00	0.00
011-0000008156-00	7/5/2000	Final	0.00	0.00	0.00
011-0000008157-00	6/30/2000	Final	188.90	188.90	0.00
011-0000008158-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008159-00	7/9/2000	Final	0.00	0.00	0.00
011-0000008160-00	7/12/2000	Final	0.00	0.00	0.00
011-0000008161-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008162-00	7/4/2000	Final	0.00	0.00	0.00
011-0000008163-00	7/2/2000	Final	437.50	437.50	0.00
011-0000008164-00	7/2/2000	Final	55.39	55.39	0.00
011-0000008165-00	7/2/2000	Final	66.00	66.00	0.00
011-0000008166-00	7/2/2000	Final	120.00	120.00	0.00
011-0000008167-00	7/12/2000	Final	0.00	0.00	0.00
011-0000008168-00	7/13/2000	Final	0.00	0.00	0.00
011-0000008169-00	7/13/2000	Final	88.54	88.54	0.00
011-0000008171-00	4/27/2000	Final	100.00	100.00	0.00
011-0000008173-00	7/16/2000	Final	0.00	0.00	0.00
011-0000008174-00	7/9/2000	Final	171.60	171.60	0.00
011-0000008175-00	7/14/2000	Final	0.00	0.00	0.00
011-0000008176-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008177-00	7/9/2000	Final	0.00	0.00	0.00
011-0000008178-00	7/17/2000	Final	240.00	240.00	0.00
011-0000008179-00	7/13/2000	Final	240.00	240.00	0.00
011-0000008180-00	6/14/2000	Final	1,876.20	1,876.20	0.00
011-0000008181-00	7/18/2000	Final	271.60	271.60	0.00

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Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Date: 2000					
0000008182-00	7/18/2000	Final	0.00	0.00	0.00
0000008184-00	7/12/2000	Final	0.00	0.00	0.00
0000008185-00	7/3/2000	Final	0.00	0.00	0.00
0000008186-00	5/2/2000	Final	0.00	0.00	0.00
0000008187-00	6/30/2000	Final	792.44	792.44	0.00
0000008188-00	7/2/2000	Final	470.04	470.04	0.00
0000008189-00	7/9/2000	Final	0.00	0.00	0.00
0000008190-00	7/20/2000	Final	0.00	0.00	0.00
0000008191-00	7/19/2000	Final	473.02	473.02	0.00
0000008192-00	7/13/2000	Final	855.41	855.41	0.00
0000008193-00	7/20/2000	Final	929.69	929.69	0.00
0000008197-00	7/2/2000	Final	75.00	75.00	0.00
0000008198-00	7/21/2000	Final	321.49	321.49	0.00
0000008199-00	7/20/2000	Final	604.17	604.17	0.00
0000008200-00	7/2/2000	Final	0.00	0.00	0.00
0000008201-00	7/2/2000	Final	310.00	310.00	0.00
0000008202-00	7/5/2000	Final	0.00	0.00	0.00
0000008203-00	7/10/2000	Final	40.00	40.00	0.00
0000008204-00	7/25/2000	Final	0.00	0.00	0.00
0000008208-00	6/30/2000	Final	1,128.16	1,128.16	0.00
0000008214-00	7/2/2000	Final	265.00	265.00	0.00
0000008217-00	7/29/2000	Final	0.00	0.00	0.00
0000008219-00	7/12/2000	Final	69.79	69.79	0.00
0000008220-00	7/31/2000	Final	1,059.37	1,059.37	0.00
0000008221-00	7/31/2000	Final	0.00	0.00	0.00
0000008222-00	7/5/2000	Final	0.00	0.00	0.00
0000008228-00	7/31/2000	Final	0.00	0.00	0.00
0000008229-00	7/28/2000	Final	0.00	0.00	0.00
0000008231-00	7/29/2000	Final	0.00	0.00	0.00
0000008232-00	8/2/2000	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008233-00	7/31/2000	Final	0.00	0.00	0.00
011-0000008236-00	7/9/2000	Final	928.25	928.25	0.00
011-0000008237-00	7/4/2000	Final	0.00	0.00	0.00
011-0000008240-00	7/27/2000	Final	0.00	0.00	0.00
011-0000008242-00	7/22/2000	Final	57.29	57.29	0.00
011-0000008248-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008250-00	7/2/2000	Final	772.08	772.08	0.00
011-0000008251-00	7/21/2000	Final	182.28	182.28	0.00
011-0000008252-00	8/10/2000	Final	0.00	0.00	0.00
011-0000008253-00	7/27/2000	Final	50.00	50.00	0.00
011-0000008254-00	7/29/2000	Final	110.00	110.00	0.00
011-0000008255-00	8/10/2000	Final	0.00	0.00	0.00
011-0000008256-00	8/11/2000	Final	0.00	0.00	0.00
011-0000008257-00	8/8/2000	Final	185.14	185.14	0.00
011-0000008258-00	8/1/2000	Final	0.00	0.00	0.00
011-0000008259-00	8/11/2000	Final	550.00	550.00	0.00
011-0000008260-00	8/12/2000	Final	200.00	200.00	0.00
011-0000008261-00	7/4/2000	Final	0.00	0.00	0.00
011-0000008262-00	8/14/2000	Final	0.00	0.00	0.00
011-0000008263-00	8/7/2000	Final	197.15	197.15	0.00
011-0000008264-00	8/16/2000	Final	126.27	126.27	0.00
011-0000008265-00	8/14/2000	Final	46.87	46.87	0.00
011-0000008266-00	8/15/2000	Final	0.00	0.00	0.00
011-0000008267-00	8/15/2000	Final	0.00	0.00	0.00
011-0000008268-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008269-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008270-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008271-00	7/28/2000	Final	0.00	0.00	0.00
011-0000008272-00	1/20/2000	Final	0.00	0.00	0.00
011-0000008273-00	7/26/2000	Final	108.34	108.34	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008274-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008275-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008276-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008277-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008278-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008279-00	8/5/2000	Final	612.81	612.81	0.00
011-0000008280-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008281-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008282-00	8/22/2000	Final	0.00	0.00	0.00
011-0000008283-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008284-00	8/21/2000	Final	61.29	61.29	0.00
011-0000008285-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008286-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008287-00	8/11/2000	Final	0.00	0.00	0.00
011-0000008288-00	8/22/2000	Final	0.00	0.00	0.00
011-0000008289-00	7/2/2000	Final	231.00	231.00	0.00
011-0000008290-00	7/9/2000	Final	0.00	0.00	0.00
011-0000008291-00	8/22/2000	Final	0.00	0.00	0.00
011-0000008292-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008293-00	8/22/2000	Final	0.00	0.00	0.00
011-0000008294-00	7/29/2000	Final	0.00	0.00	0.00
011-0000008295-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008296-00	7/12/2000	Final	1,966.36	1,966.36	0.00
011-0000008297-00	8/18/2000	Final	248.65	248.65	0.00
011-0000008298-00	8/25/2000	Final	77.22	77.22	0.00
011-0000008299-00	8/25/2000	Final	0.00	0.00	0.00
011-0000008300-00	8/26/2000	Final	0.00	0.00	0.00
011-0000008301-00	8/25/2000	Final	1,447.03	1,447.03	0.00
011-0000008302-00	8/14/2000	Final	79.17	79.17	0.00
011-0000008303-00	8/25/2000	Final	358.00	358.00	0.00

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000				
011-0000008304-00	8/25/2000 Final	197.60	197.60	0.00
011-0000008305-00	8/25/2000 Final	395.64	395.64	0.00
011-0000008306-00	8/25/2000 Final	173.72	173.72	0.00
011-0000008307-00	8/21/2000 Final	2,747.38	2,747.38	0.00
011-0000008308-00	8/20/2000 Final	0.00	0.00	0.00
011-0000008309-00	8/27/2000 Final	0.00	0.00	0.00
011-0000008310-00	8/28/2000 Final	0.00	0.00	0.00
011-0000008311-00	8/25/2000 Final	0.00	0.00	0.00
011-0000008312-00	8/27/2000 Final	0.00	0.00	0.00
011-0000008313-00	8/28/2000 Final	0.00	0.00	0.00
011-0000008314-00	8/28/2000 Final	0.00	0.00	0.00
011-0000008315-00	8/26/2000 Final	720.60	720.60	0.00
011-0000008316-00	8/28/2000 Final	1,300.10	1,300.10	0.00
011-0000008317-00	8/25/2000 Final	0.00	0.00	0.00
011-0000008318-00	8/26/2000 Final	177.07	177.07	0.00
011-0000008319-00	8/20/2000 Final	0.00	0.00	0.00
011-0000008320-00	8/20/2000 Final	0.00	0.00	0.00
011-0000008321-00	8/28/2000 Final	0.00	0.00	0.00
011-0000008322-00	8/28/2000 Final	95.00	95.00	0.00
011-0000008323-00	8/26/2000 Final	0.00	0.00	0.00
011-0000008324-00	8/26/2000 Final	0.00	0.00	0.00
011-0000008325-00	8/22/2000 Final	0.00	0.00	0.00
011-0000008326-00	8/21/2000 Final	0.00	0.00	0.00
011-0000008327-00	8/30/2000 Final	0.00	0.00	0.00
011-0000008328-00	8/29/2000 Final	0.00	0.00	0.00
011-0000008329-00	8/27/2000 Final	0.00	0.00	0.00
011-0000008330-00	8/23/2000 Final	0.00	0.00	0.00
011-0000008333-00	8/25/2000 Final	0.00	0.00	0.00
011-0000008334-00	8/27/2000 Final	656.40	656.40	0.00
011-0000008335-00	8/27/2000 Final	0.00	0.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008336-00	8/28/2000	Final	1,420.98	1,420.98	0.00
011-0000008337-00	8/22/2000	Final	0.00	0.00	0.00
011-0000008338-00	9/2/2000	Final	0.00	0.00	0.00
011-0000008339-00	9/2/2000	Final	0.00	0.00	0.00
011-0000008340-00	8/22/2000	Final	213.00	213.00	0.00
011-0000008341-00	9/2/2000	Final	0.00	0.00	0.00
011-0000008342-00	9/4/2000	Final	0.00	0.00	0.00
011-0000008343-00	7/21/2000	Final	0.00	0.00	0.00
011-0000008344-00	8/15/2000	Final	75.99	75.99	0.00
011-0000008345-00	8/26/2000	Final	0.00	0.00	0.00
011-0000008346-00	8/27/2000	Final	270.78	270.78	0.00
011-0000008347-00	8/14/2000	Final	1,130.30	1,130.30	0.00
011-0000008358-00	9/7/2000	Final	387.38	387.38	0.00
011-0000008359-00	9/7/2000	Final	1,207.45	1,207.45	0.00
011-0000008360-00	8/16/2000	Final	159.93	159.93	0.00
011-0000008361-00	9/7/2000	Final	182.15	182.15	0.00
011-0000008362-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008364-00	9/7/2000	Final	0.00	0.00	0.00
011-0000008365-00	9/7/2000	Final	0.00	0.00	0.00
011-0000008366-00	9/7/2000	Final	0.00	0.00	0.00
011-0000008367-00	8/27/2000	Final	252.90	252.90	0.00
011-0000008368-00	7/2/2000	Final	0.00	0.00	0.00
011-0000008369-00	9/3/2000	Final	528.71	528.71	0.00
011-0000008370-00	9/8/2000	Final	0.00	0.00	0.00
011-0000008371-00	9/10/2000	Final	40.96	40.96	0.00
011-0000008372-00	7/25/2000	Final	475.68	475.68	0.00
011-0000008373-00	8/23/2000	Final	221.10	221.10	0.00
011-0000008374-00	8/16/2000	Final	197.90	197.90	0.00
011-0000008375-00	8/30/2000	Final	74.22	74.22	0.00
011-0000008376-00	9/12/2000	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008377-00	9/7/2000	Final	416.66	416.66	0.00
011-0000008378-00	8/31/2000	Final	385.39	385.39	0.00
011-0000008379-00	9/13/2000	Final	0.00	0.00	0.00
011-0000008380-00	9/14/2000	Final	0.00	0.00	0.00
011-0000008381-00	9/6/2000	Final	149.76	149.76	0.00
011-0000008385-00	9/11/2000	Final	0.00	0.00	0.00
011-0000008386-00	9/3/2000	Final	107.60	107.60	0.00
011-0000008387-00	9/1/2000	Final	114.58	114.58	0.00
011-0000008388-00	8/24/2000	Final	0.00	0.00	0.00
011-0000008389-00	8/25/2000	Final	0.00	0.00	0.00
011-0000008390-00	9/15/2000	Final	0.00	0.00	0.00
011-0000008392-00	9/18/2000	Final	0.00	0.00	0.00
011-0000008393-00	9/19/2000	Final	50.00	50.00	0.00
011-0000008394-00	9/14/2000	Final	609.37	609.37	0.00
011-0000008395-00	9/13/2000	Final	0.00	0.00	0.00
011-0000008396-00	8/25/2000	Final	226.98	226.98	0.00
011-0000008397-00	9/20/2000	Final	2,149.54	2,149.54	0.00
011-0000008398-00	9/21/2000	Final	0.00	0.00	0.00
011-0000008399-00	5/10/2000	Final	0.00	0.00	0.00
011-0000008400-00	9/18/2000	Final	0.00	0.00	0.00
011-0000008401-00	9/18/2000	Final	0.00	0.00	0.00
011-0000008402-00	9/23/2000	Final	0.00	0.00	0.00
011-0000008403-00	9/18/2000	Final	165.00	165.00	0.00
011-0000008404-00	9/7/2000	Final	1,036.46	1,036.46	0.00
011-0000008405-00	9/22/2000	Final	240.37	240.37	0.00
011-0000008406-00	8/20/2000	Final	116.67	116.67	0.00
011-0000008407-00	5/10/2000	Final	618.22	618.22	0.00
011-0000008408-00	8/20/2000	Final	0.00	0.00	0.00
011-0000008409-00	9/26/2000	Final	0.00	0.00	0.00
011-0000008410-00	9/26/2000	Final	0.00	0.00	0.00

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atus	Incurred Total	Paid Total	Outstanding
nal	204.17	204.17	0.00
nal	0.00	0.00	0.00
nal	0.00	0.00	0.00
nal	50.00	50.00	0.00
nal	0.00	0.00	0.00
nal	0.00	0.00	0.00
nal	0.00	0.00	0.00
nal	784.27	784.27	0.00
nal	917.91	917.91	0.00
nal	5,843.84	5,843.84	0.00
inal	0.00	0.00	0.00
inal	0.00	0.00	0.00
inal	0.00	0.00	0.00
inal	299.50	299.50	0.00
inal	0.00	0.00	0.00
inal	874.46	874.46	0.00
inal	0.00	0.00	0.00
inal	779.07	779.07	0.00
inal	0.00	0.00	0.00
inal	240.00	240.00	0.00
inal	240.00	240.00	0.00
inal	450.56	450.56	0.00
inal	236.50	236.50	0.00
inal	0.00	0.00	0.00
inal	0.00	0.00	0.00
inal	75.00	75.00	0.00
inal	200.00	200.00	0.00
inal	0.00	0.00	0.00
inal	0.00	0.00	0.00
inal	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000				
011-0000008447-00	10/9/2000 Final	0.00	0.00	0.00
011-0000008448-00	10/3/2000 Final	0.00	0.00	0.00
011-0000008449-00	10/15/200(Final	118.09	118.09	0.00
011-0000008451-00	10/14/200(Final	2,000.92	2,000.92	0.00
011-0000008452-00	10/14/200(Final	0.00	0.00	0.00
011-0000008453-00	10/14/200(Final	49.63	49.63	0.00
011-0000008454-00	10/14/200(Final	89.74	89.74	0.00
011-0000008455-00	10/14/200(Final	260.42	260.42	0.00
011-0000008456-00	10/14/200(Final	93.90	93.90	0.00
011-0000008457-00	10/13/200(Final	0.00	0.00	0.00
011-0000008458-00	10/14/200(Final	0.00	0.00	0.00
011-0000008459-00	7/28/2000 Final	0.00	0.00	0.00
011-0000008460-00	9/16/2000 Final	0.00	0.00	0.00
011-0000008461-00	10/14/200(Final	127.06	127.06	0.00
011-0000008462-00	10/9/2000 Final	0.00	0.00	0.00
011-0000008463-00	10/17/200(Final	517.14	517.14	0.00
011-0000008467-00	10/18/200(Final	0.00	0.00	0.00
011-0000008468-00	9/28/2000 Final	87.35	87.35	0.00
011-0000008469-00	10/17/200(Final	246.91	246.91	0.00
011-0000008471-00	10/19/200(Final	0.00	0.00	0.00
011-0000008472-00	10/19/200(Final	0.00	0.00	0.00
011-0000008473-00	10/14/200(Final	1,463.44	1,463.44	0.00
011-0000008474-00	9/29/2000 Final	0.00	0.00	0.00
011-0000008475-00	10/19/200(Final	240.00	240.00	0.00
011-0000008478-00	10/6/2000 Final	130.21	130.21	0.00
011-0000008479-00	10/21/200(Final	0.00	0.00	0.00
011-0000008480-00	10/19/200(Final	0.00	0.00	0.00
011-0000008482-00	10/21/200(Final	0.00	0.00	0.00
011-0000008483-00	9/21/2000 Final	75.00	75.00	0.00
011-0000008484-00	8/29/2000 Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000					
011-0000008485-00	9/25/2000	Final	0.00	0.00	0.00
011-0000008486-00	10/6/2000	Final	989.58	989.58	0.00
011-0000008487-00	3/18/2000	Final	0.00	0.00	0.00
011-0000008488-00	10/19/200(	Final	0.00	0.00	0.00
011-0000008490-00	10/24/200(	Final	0.00	0.00	0.00
011-0000008491-00	9/26/2000	Final	0.00	0.00	0.00
011-0000008492-00	10/14/200(	Final	93.90	93.90	0.00
011-0000008493-00	8/11/2000	Final	0.00	0.00	0.00
011-0000008494-00	10/19/200(	Final	0.00	0.00	0.00
011-0000008495-00	10/26/200(	Final	621.28	621.28	0.00
011-0000008496-00	10/25/200(	Final	0.00	0.00	0.00
011-0000008497-00	10/6/2000	Final	7,237.96	7,237.96	0.00
011-0000008500-00	9/20/2000	Final	252.20	252.20	0.00
011-0000008501-00	9/20/2000	Final	480.18	480.18	0.00
011-0000008502-00	10/25/200(	Final	0.00	0.00	0.00
011-0000008503-00	10/9/2000	Final	0.00	0.00	0.00
011-0000008504-00	10/29/200(	Final	0.00	0.00	0.00
011-0000008505-00	10/29/200(	Final	95.48	95.48	0.00
011-0000008506-00	10/29/200(	Final	0.00	0.00	0.00
011-0000008507-00	10/29/200(	Final	375.00	375.00	0.00
011-0000008508-00	10/31/200(	Final	0.00	0.00	0.00
011-0000008509-00	10/20/200(	Final	350.00	350.00	0.00
011-0000008510-00	10/15/200(	Final	100.00	100.00	0.00
011-0000008511-00	11/1/2000	Final	0.00	0.00	0.00
011-0000008512-00	10/17/200(	Final	216.49	216.49	0.00
011-0000008513-00	11/1/2000	Final	0.00	0.00	0.00
011-0000008514-00	8/22/2000	Final	0.00	0.00	0.00
011-0000008515-00	7/18/2000	Final	0.00	0.00	0.00
011-0000008516-00	11/2/2000	Final	0.00	0.00	0.00
011-0000008517-00	11/3/2000	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000				
011-0000008518-00	11/1/2000 Final	0.00	0.00	0.00
011-0000008519-00	11/3/2000 Final	0.00	0.00	0.00
011-0000008520-00	10/29/200(Final	614.53	614.53	0.00
011-0000008521-00	9/29/2000 Final	25,000.00	25,000.00	0.00
011-0000008522-00	11/3/2000 Final	0.00	0.00	0.00
011-0000008523-00	11/4/2000 Final	0.00	0.00	0.00
011-0000008524-00	11/9/2000 Final	1,318.73	1,318.73	0.00
011-0000008525-00	10/17/200(Final	104.82	104.82	0.00
011-0000008526-00	11/12/200(Final	0.00	0.00	0.00
011-0000008527-00	11/11/200(Final	270.00	270.00	0.00
011-0000008528-00	11/10/200(Final	809.48	809.48	0.00
011-0000008529-00	11/8/2000 Final	266.62	266.62	0.00
011-0000008530-00	11/8/2000 Final	280.00	280.00	0.00
011-0000008531-00	11/11/200(Final	0.00	0.00	0.00
011-0000008532-00	11/11/200(Final	500.00	500.00	0.00
011-0000008533-00	11/14/200(Final	0.00	0.00	0.00
011-0000008534-00	11/13/200(Final	0.00	0.00	0.00
011-0000008535-00	10/29/200(Final	0.00	0.00	0.00
011-0000008536-00	11/9/2000 Final	0.00	0.00	0.00
011-0000008537-00	11/12/200(Final	531.20	531.20	0.00
011-0000008538-00	11/12/200(Final	262.56	262.56	0.00
011-0000008539-00	10/1/2000 Final	0.00	0.00	0.00
011-0000008540-00	11/14/200(Final	0.00	0.00	0.00
011-0000008541-00	11/14/200(Final	0.00	0.00	0.00
011-0000008542-00	11/14/200(Final	0.00	0.00	0.00
011-0000008543-00	11/3/2000 Final	40.00	40.00	0.00
011-0000008544-00	9/12/2000 Final	0.00	0.00	0.00
011-0000008545-00	11/15/200(Final	13.01	13.01	0.00
011-0000008546-00	11/10/200(Final	0.00	0.00	0.00
011-0000008547-00	11/16/200(Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000				
011-0000008548-00	8/21/2000 Final	1,480.00	1,480.00	0.00
011-0000008550-00	11/14/200(Final	0.00	0.00	0.00
011-0000008551-00	11/14/200(Final	0.00	0.00	0.00
011-0000008552-00	11/18/200(Final	0.00	0.00	0.00
011-0000008553-00	11/13/200(Final	0.00	0.00	0.00
011-0000008554-00	11/19/200(Final	0.00	0.00	0.00
011-0000008560-00	11/20/200(Final	105.00	105.00	0.00
011-0000008561-00	11/17/200(Final	14,237.23	14,237.23	0.00
011-0000008563-00	11/21/200(Final	0.00	0.00	0.00
011-0000008564-00	11/20/200(Final	240.00	240.00	0.00
011-0000008565-00	9/26/2000 Final	1,862.43	1,862.43	0.00
011-0000008566-00	11/12/200(Final	0.00	0.00	0.00
011-0000008567-00	11/20/200(Final	0.00	0.00	0.00
011-0000008568-00	11/20/200(Final	10.00	10.00	0.00
011-0000008569-00	11/20/200(Final	0.00	0.00	0.00
011-0000008570-00	11/20/200(Final	346.87	346.87	0.00
011-0000008571-00	11/21/200(Final	50.00	50.00	0.00
011-0000008572-00	11/21/200(Final	0.00	0.00	0.00
011-0000008573-00	11/23/200(Final	459.91	459.91	0.00
011-0000008575-00	10/30/200(Final	5,986.93	5,986.93	0.00
011-0000008576-00	5/16/2000 Final	0.00	0.00	0.00
011-0000008578-00	11/20/200(Final	0.00	0.00	0.00
011-0000008579-00	11/13/200(Final	624.00	624.00	0.00
011-0000008581-00	11/27/200(Final	0.00	0.00	0.00
011-0000008582-00	11/18/200(Final	0.00	0.00	0.00
011-0000008583-00	11/29/200(Final	0.00	0.00	0.00
011-0000008584-00	11/20/200(Final	0.00	0.00	0.00
011-0000008585-00	11/21/200(Final	31.24	31.24	0.00
011-0000008586-00	11/20/200(Final	152.70	152.70	0.00
011-0000008596-00	7/25/2000 Final	580.00	580.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000				
011-0000008598-00	12/3/2000 Final	205.73	205.73	0.00
011-0000008599-00	11/3/2000 Final	0.00	0.00	0.00
011-0000008601-00	12/1/2000 Final	0.00	0.00	0.00
011-0000008602-00	11/13/200(Final	251.97	251.97	0.00
011-0000008603-00	11/30/200(Final	0.00	0.00	0.00
011-0000008604-00	12/4/2000 Final	0.00	0.00	0.00
011-0000008605-00	11/3/2000 Final	0.00	0.00	0.00
011-0000008606-00	11/16/200(Final	26.00	26.00	0.00
011-0000008607-00	11/20/200(Final	0.00	0.00	0.00
011-0000008608-00	12/6/2000 Final	0.00	0.00	0.00
011-0000008609-00	12/6/2000 Final	0.00	0.00	0.00
011-0000008610-00	9/24/2000 Final	0.00	0.00	0.00
011-0000008611-00	12/7/2000 Final	331.00	331.00	0.00
011-0000008612-00	12/7/2000 Final	350.01	350.01	0.00
011-0000008613-00	11/14/200(Final	0.00	0.00	0.00
011-0000008614-00	11/29/200(Final	26.00	26.00	0.00
011-0000008615-00	12/6/2000 Final	0.00	0.00	0.00
011-0000008616-00	12/8/2000 Final	149.14	149.14	0.00
011-0000008617-00	12/5/2000 Final	0.00	0.00	0.00
011-0000008618-00	12/7/2000 Final	0.00	0.00	0.00
011-0000008619-00	11/14/200(Final	0.00	0.00	0.00
011-0000008620-00	11/21/200(Final	0.00	0.00	0.00
011-0000008621-00	12/8/2000 Final	258.32	258.32	0.00
011-0000008622-00	12/1/2000 Final	240.00	240.00	0.00
011-0000008623-00	12/11/200(Final	1,227.08	1,227.08	0.00
011-0000008624-00	12/11/200(Final	114.58	114.58	0.00
011-0000008625-00	12/14/200(Final	0.00	0.00	0.00
011-0000008626-00	11/30/200(Final	397.39	397.39	0.00
011-0000008627-00	12/9/2000 Final	0.00	0.00	0.00
011-0000008628-00	12/14/200(Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000				
011-0000008632-00	11/20/200(Final	266.97	266.97	0.00
011-0000008633-00	12/15/200(Final	0.00	0.00	0.00
011-0000008634-00	12/12/200(Final	3,235.22	3,235.22	0.00
011-0000008635-00	12/18/200(Final	1,359.40	1,359.40	0.00
011-0000008636-00	12/18/200(Final	176.48	176.48	0.00
011-0000008637-00	12/18/200(Final	156.12	156.12	0.00
011-0000008638-00	12/18/200(Final	1,606.73	1,606.73	0.00
011-0000008639-00	12/18/200(Final	1,195.24	1,195.24	0.00
011-0000008640-00	12/15/200(Final	240.00	240.00	0.00
011-0000008641-00	12/18/200(Final	1,196.00	1,196.00	0.00
011-0000008642-00	12/18/200(Final	229.91	229.91	0.00
011-0000008643-00	12/18/200(Final	197.00	197.00	0.00
011-0000008644-00	12/18/200(Final	643.58	643.58	0.00
011-0000008645-00	12/18/200(Final	0.00	0.00	0.00
011-0000008646-00	12/18/200(Final	93.00	93.00	0.00
011-0000008647-00	12/18/200(Final	602.42	602.42	0.00
011-0000008648-00	12/18/200(Final	458.00	458.00	0.00
011-0000008649-00	12/18/200(Final	0.00	0.00	0.00
011-0000008650-00	12/17/200(Final	1,055.49	1,055.49	0.00
011-0000008651-00	11/20/200(Final	338.13	338.13	0.00
011-0000008652-00	12/13/200(Final	0.00	0.00	0.00
011-0000008653-00	12/14/200(Final	67.71	67.71	0.00
011-0000008654-00	12/18/200(Final	100.00	100.00	0.00
011-0000008655-00	10/17/200(Final	0.00	0.00	0.00
011-0000008656-00	12/18/200(Final	178.00	178.00	0.00
011-0000008657-00	12/14/200(Final	0.00	0.00	0.00
011-0000008658-00	12/18/200(Final	0.00	0.00	0.00
011-0000008659-00	12/18/200(Final	114.32	114.32	0.00
011-0000008660-00	11/29/200(Final	0.00	0.00	0.00
011-0000008661-00	12/18/200(Final	62.00	62.00	0.00

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2000				
011-0000008662-00	12/5/2000 Final	0.00	0.00	0.00
011-0000008663-00	12/21/200(Final	250.00	250.00	0.00
011-0000008667-00	11/20/200(Final	0.00	0.00	0.00
011-0000008668-00	12/23/200(Final	0.00	0.00	0.00
011-0000008669-00	12/15/200(Final	197.40	197.40	0.00
011-0000008670-00	12/20/200(Final	97.17	97.17	0.00
011-0000008671-00	12/26/200(Final	0.00	0.00	0.00
011-0000008673-00	10/19/200(Final	0.00	0.00	0.00
011-0000008674-00	12/8/2000 Final	0.00	0.00	0.00
011-0000008677-00	12/18/200(Final	360.39	360.39	0.00
011-0000008678-00	12/18/200(Final	0.00	0.00	0.00
011-0000008681-00	12/27/200(Final	548.14	548.14	0.00
011-0000008685-00	8/24/2000 Final	0.00	0.00	0.00
011-0000008686-00	12/28/200(Final	437.50	437.50	0.00
011-0000008690-00	12/18/200(Final	107.86	107.86	0.00
011-0000008715-00	12/15/200(Final	0.00	0.00	0.00
011-0000008720-00	10/31/200(Final	373.23	373.23	0.00
011-0000008721-00	1/10/2000 Final	100.00	100.00	0.00
011-0000008725-00	12/28/200(Final	0.00	0.00	0.00
011-0000008728-00	12/18/200(Final	879.84	879.84	0.00
011-0000008736-00	12/18/200(Final	665.46	665.46	0.00
011-0000008749-00	12/29/200(Final	0.00	0.00	0.00
011-0000008753-00	12/19/200(Final	0.00	0.00	0.00
011-0000008759-00	9/1/2000 Final	0.00	0.00	0.00
011-0000008777-00	11/20/200(Final	402.34	402.34	0.00
011-0000008789-00	11/23/200(Final	0.00	0.00	0.00
011-0000008866-00	6/2/2000 Final	0.00	0.00	0.00
011-0000008883-00	12/14/200(Final	4,950.00	4,950.00	0.00
011-0000008891-00	11/20/200(Final	0.00	0.00	0.00
011-0000008930-00	1/1/2000 Final	0.00	0.00	0.00

al	Paid Total	Outstanding
!9	293.29	0.00
)0	0.00	0.00
)0	3,000.00	0.00
;8	6,355.58	0.00
	814 Claims	
7	**356,826.37**	

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008675-00	1/2/2001	Final	120.00	120.00	0.00
011-0000008676-00	1/1/2001	Final	0.00	0.00	0.00
011-0000008679-00	1/2/2001	Final	0.00	0.00	0.00
011-0000008680-00	1/1/2001	Final	0.00	0.00	0.00
011-0000008682-00	1/2/2001	Final	0.00	0.00	0.00
011-0000008683-00	1/1/2001	Final	98.80	98.80	0.00
011-0000008684-00	1/2/2001	Final	124.21	124.21	0.00
011-0000008687-00	1/1/2001	Final	101.56	101.56	0.00
011-0000008688-00	1/2/2001	Final	0.00	0.00	0.00
011-0000008689-00	1/5/2001	Final	240.00	240.00	0.00
011-0000008697-00	1/1/2001	Final	128.00	128.00	0.00
011-0000008698-00	1/10/2001	Final	1,068.31	1,068.31	0.00
011-0000008699-00	1/9/2001	Final	0.00	0.00	0.00
011-0000008700-00	1/1/2001	Final	0.00	0.00	0.00
011-0000008701-00	1/4/2001	Final	0.00	0.00	0.00
011-0000008702-00	1/1/2001	Final	135.42	135.42	0.00
011-0000008703-00	1/12/2001	Final	0.00	0.00	0.00
011-0000008704-00	1/10/2001	Final	397.88	397.88	0.00
011-0000008705-00	1/12/2001	Final	206.96	206.96	0.00
011-0000008706-00	1/12/2001	Final	52.08	52.08	0.00
011-0000008707-00	1/12/2001	Final	98.96	98.96	0.00
011-0000008708-00	1/12/2001	Final	122.85	122.85	0.00
011-0000008709-00	1/13/2001	Final	429.29	429.29	0.00
011-0000008710-00	1/13/2001	Final	0.00	0.00	0.00
011-0000008711-00	1/12/2001	Final	843.31	843.31	0.00
011-0000008712-00	1/16/2001	Final	0.00	0.00	0.00
011-0000008713-00	1/1/2001	Final	0.00	0.00	0.00
011-0000008714-00	1/13/2001	Final	46.44	46.44	0.00
011-0000008718-00	1/14/2001	Final	1,363.03	1,363.03	0.00
011-0000008719-00	1/16/2001	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008724-00	1/12/2001	Final	484.16	484.16	0.00
011-0000008727-00	1/17/2001	Final	0.00	0.00	0.00
011-0000008729-00	1/12/2001	Final	468.75	468.75	0.00
011-0000008730-00	1/10/2001	Final	0.00	0.00	0.00
011-0000008731-00	1/12/2001	Final	0.00	0.00	0.00
011-0000008732-00	1/17/2001	Final	0.00	0.00	0.00
011-0000008733-00	1/21/2001	Final	1,546.75	1,546.75	0.00
011-0000008734-00	1/19/2001	Final	273.74	273.74	0.00
011-0000008735-00	1/19/2001	Final	0.00	0.00	0.00
011-0000008737-00	1/12/2001	Final	180.00	180.00	0.00
011-0000008738-00	1/21/2001	Final	143.00	143.00	0.00
011-0000008739-00	1/20/2001	Final	150.00	150.00	0.00
011-0000008740-00	1/8/2001	Final	768.40	768.40	0.00
011-0000008742-00	1/9/2001	Final	0.00	0.00	0.00
011-0000008744-00	1/12/2001	Final	1,546.92	1,546.92	0.00
011-0000008745-00	1/23/2001	Final	0.00	0.00	0.00
011-0000008746-00	1/1/2001	Final	189.96	189.96	0.00
011-0000008747-00	1/19/2001	Final	240.00	240.00	0.00
011-0000008748-00	1/17/2001	Final	0.00	0.00	0.00
011-0000008750-00	1/23/2001	Final	0.00	0.00	0.00
011-0000008752-00	1/25/2001	Final	57.36	57.36	0.00
011-0000008754-00	1/16/2001	Final	80.00	80.00	0.00
011-0000008755-00	1/23/2001	Final	1,434.69	1,434.69	0.00
011-0000008756-00	1/27/2001	Final	359.37	359.37	0.00
011-0000008757-00	1/17/2001	Final	68.00	68.00	0.00
011-0000008758-00	1/22/2001	Final	0.00	0.00	0.00
011-0000008760-00	1/22/2001	Final	0.00	0.00	0.00
011-0000008761-00	1/19/2001	Final	350.00	350.00	0.00
011-0000008762-00	1/16/2001	Final	0.00	0.00	0.00
011-0000008763-00	1/3/2001	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008764-00	1/29/2001	Final	0.00	0.00	0.00
011-0000008767-00	1/29/2001	Final	0.00	0.00	0.00
011-0000008768-00	1/29/2001	Final	137.45	137.45	0.00
011-0000008769-00	1/30/2001	Final	0.00	0.00	0.00
011-0000008770-00	1/30/2001	Final	81.14	81.14	0.00
011-0000008771-00	1/29/2001	Final	0.00	0.00	0.00
011-0000008772-00	1/25/2001	Final	791.64	791.64	0.00
011-0000008775-00	1/29/2001	Final	0.00	0.00	0.00
011-0000008776-00	1/29/2001	Final	364.58	364.58	0.00
011-0000008779-00	1/29/2001	Final	0.00	0.00	0.00
011-0000008780-00	1/29/2001	Final	30.00	30.00	0.00
011-0000008781-00	1/23/2001	Final	291.67	291.67	0.00
011-0000008782-00	1/17/2001	Final	35.00	35.00	0.00
011-0000008783-00	2/4/2001	Final	0.00	0.00	0.00
011-0000008784-00	2/2/2001	Final	0.00	0.00	0.00
011-0000008785-00	1/23/2001	Final	260.00	260.00	0.00
011-0000008786-00	2/3/2001	Final	0.00	0.00	0.00
011-0000008787-00	2/4/2001	Final	0.00	0.00	0.00
011-0000008788-00	1/29/2001	Final	80.15	80.15	0.00
011-0000008790-00	2/2/2001	Final	3,100.00	3,100.00	0.00
011-0000008791-00	2/5/2001	Final	111.50	111.50	0.00
011-0000008792-00	1/30/2001	Final	55.10	55.10	0.00
011-0000008793-00	2/7/2001	Final	411.43	411.43	0.00
011-0000008794-00	2/6/2001	Final	861.02	861.02	0.00
011-0000008795-00	2/5/2001	Final	147.00	147.00	0.00
011-0000008796-00	1/29/2001	Final	168.75	168.75	0.00
011-0000008797-00	2/3/2001	Final	1,738.72	1,738.72	0.00
011-0000008798-00	1/12/2001	Final	0.00	0.00	0.00
011-0000008799-00	2/11/2001	Final	0.00	0.00	0.00
011-0000008800-00	2/11/2001	Final	464.60	464.60	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008801-00	2/5/2001	Final	300.00	300.00	0.00
011-0000008802-00	1/25/2001	Final	2,499.63	2,499.63	0.00
011-0000008803-00	1/29/2001	Final	52.00	52.00	0.00
011-0000008804-00	2/7/2001	Final	0.00	0.00	0.00
011-0000008805-00	2/10/2001	Final	0.00	0.00	0.00
011-0000008807-00	2/11/2001	Final	0.00	0.00	0.00
011-0000008808-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008809-00	1/24/2001	Final	0.00	0.00	0.00
011-0000008810-00	2/12/2001	Final	95.00	95.00	0.00
011-0000008811-00	2/14/2001	Final	161.47	161.47	0.00
011-0000008812-00	2/13/2001	Final	674.84	674.84	0.00
011-0000008813-00	2/15/2001	Final	0.00	0.00	0.00
011-0000008814-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008815-00	2/13/2001	Final	0.00	0.00	0.00
011-0000008816-00	2/14/2001	Final	606.25	606.25	0.00
011-0000008817-00	2/14/2001	Final	281.24	281.24	0.00
011-0000008818-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008819-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008820-00	2/13/2001	Final	0.00	0.00	0.00
011-0000008821-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008822-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008823-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008824-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008825-00	2/1/2001	Final	0.00	0.00	0.00
011-0000008826-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008827-00	2/14/2001	Final	217.22	217.22	0.00
011-0000008828-00	2/10/2001	Final	128.63	128.63	0.00
011-0000008829-00	2/14/2001	Final	152.50	152.50	0.00
011-0000008830-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008831-00	2/14/2001	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008832-00	1/22/2001	Final	287.00	287.00	0.00
011-0000008833-00	2/14/2001	Final	454.48	454.48	0.00
011-0000008834-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008835-00	2/14/2001	Final	699.63	699.63	0.00
011-0000008836-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008837-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008838-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008839-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008840-00	2/15/2001	Final	0.00	0.00	0.00
011-0000008841-00	2/6/2001	Final	769.15	769.15	0.00
011-0000008842-00	2/16/2001	Final	108.07	108.07	0.00
011-0000008843-00	2/10/2001	Final	748.00	748.00	0.00
011-0000008844-00	2/18/2001	Final	0.00	0.00	0.00
011-0000008845-00	2/13/2001	Final	368.03	368.03	0.00
011-0000008846-00	2/14/2001	Final	126.05	126.05	0.00
011-0000008847-00	2/20/2001	Final	0.00	0.00	0.00
011-0000008848-00	2/15/2001	Final	0.00	0.00	0.00
011-0000008850-00	2/13/2001	Final	240.00	240.00	0.00
011-0000008851-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008852-00	2/15/2001	Final	0.00	0.00	0.00
011-0000008853-00	2/13/2001	Final	0.00	0.00	0.00
011-0000008854-00	2/14/2001	Final	333.91	333.91	0.00
011-0000008855-00	2/10/2001	Final	25.00	25.00	0.00
011-0000008856-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008857-00	2/14/2001	Final	186.72	186.72	0.00
011-0000008858-00	2/12/2001	Final	275.00	275.00	0.00
011-0000008859-00	2/12/2001	Final	0.00	0.00	0.00
011-0000008860-00	2/21/2001	Final	196.06	196.06	0.00
011-0000008861-00	2/9/2001	Final	0.00	0.00	0.00
011-0000008862-00	2/21/2001	Final	0.00	0.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008863-00	2/18/2001	Final	281.96	281.96	0.00
011-0000008864-00	2/25/2001	Final	1,543.83	1,543.83	0.00
011-0000008865-00	2/25/2001	Final	250.00	250.00	0.00
011-0000008867-00	2/14/2001	Final	88.00	88.00	0.00
011-0000008868-00	1/27/2001	Final	98.80	98.80	0.00
011-0000008869-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008870-00	2/25/2001	Final	37.42	37.42	0.00
011-0000008871-00	2/15/2001	Final	0.00	0.00	0.00
011-0000008872-00	2/25/2001	Final	436.94	436.94	0.00
011-0000008873-00	2/25/2001	Final	20.00	20.00	0.00
011-0000008874-00	2/25/2001	Final	614.79	614.79	0.00
011-0000008875-00	2/26/2001	Final	52.00	52.00	0.00
011-0000008877-00	2/18/2001	Final	0.00	0.00	0.00
011-0000008879-00	2/16/2001	Final	31.00	31.00	0.00
011-0000008881-00	2/28/2001	Final	0.00	0.00	0.00
011-0000008882-00	2/28/2001	Final	0.00	0.00	0.00
011-0000008884-00	2/24/2001	Final	26.00	26.00	0.00
011-0000008885-00	2/25/2001	Final	713.30	713.30	0.00
011-0000008886-00	1/17/2001	Final	150.80	150.80	0.00
011-0000008887-00	2/27/2001	Final	0.00	0.00	0.00
011-0000008888-00	2/25/2001	Final	0.00	0.00	0.00
011-0000008889-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008890-00	2/28/2001	Final	0.00	0.00	0.00
011-0000008892-00	2/27/2001	Final	0.00	0.00	0.00
011-0000008893-00	3/3/2001	Final	0.00	0.00	0.00
011-0000008894-00	3/6/2001	Final	0.00	0.00	0.00
011-0000008895-00	2/5/2001	Final	0.00	0.00	0.00
011-0000008896-00	3/3/2001	Final	1,266.37	1,266.37	0.00
011-0000008897-00	2/12/2001	Final	0.00	0.00	0.00
011-0000008901-00	2/26/2001	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008902-00	3/7/2001	Final	0.00	0.00	0.00
011-0000008903-00	3/3/2001	Final	805.59	805.59	0.00
011-0000008904-00	3/10/2001	Final	0.00	0.00	0.00
011-0000008905-00	3/11/2001	Final	0.00	0.00	0.00
011-0000008906-00	3/11/2001	Final	0.00	0.00	0.00
011-0000008907-00	3/11/2001	Final	49.48	49.48	0.00
011-0000008908-00	1/18/2001	Final	119.93	119.93	0.00
011-0000008909-00	1/12/2001	Final	0.00	0.00	0.00
011-0000008911-00	3/5/2001	Final	0.00	0.00	0.00
011-0000008912-00	2/28/2001	Final	62.00	62.00	0.00
011-0000008913-00	3/6/2001	Final	375.00	375.00	0.00
011-0000008914-00	3/9/2001	Final	240.00	240.00	0.00
011-0000008915-00	2/14/2001	Final	0.00	0.00	0.00
011-0000008916-00	3/14/2001	Final	0.00	0.00	0.00
011-0000008917-00	3/1/2001	Final	114.46	114.46	0.00
011-0000008918-00	2/8/2001	Final	0.00	0.00	0.00
011-0000008920-00	3/16/2001	Final	227.07	227.07	0.00
011-0000008921-00	3/12/2001	Final	0.00	0.00	0.00
011-0000008922-00	3/14/2001	Final	240.00	240.00	0.00
011-0000008923-00	3/15/2001	Final	200.00	200.00	0.00
011-0000008924-00	2/1/2001	Final	557.19	557.19	0.00
011-0000008925-00	3/13/2001	Final	0.00	0.00	0.00
011-0000008926-00	3/4/2001	Final	172.37	172.37	0.00
011-0000008927-00	2/28/2001	Final	0.00	0.00	0.00
011-0000008928-00	3/19/2001	Final	0.00	0.00	0.00
011-0000008929-00	1/24/2001	Final	0.00	0.00	0.00
011-0000008931-00	3/18/2001	Final	0.00	0.00	0.00
011-0000008933-00	3/12/2001	Final	0.00	0.00	0.00
011-0000008934-00	3/19/2001	Final	0.00	0.00	0.00
011-0000008935-00	1/3/2001	Final	3,247.77	3,247.77	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000008937-00	3/1/2001	Final	0.00	0.00	0.00
011-0000008938-00	3/22/2001	Final	0.00	0.00	0.00
011-0000008948-00	3/22/2001	Final	0.00	0.00	0.00
011-0000008951-00	3/25/2001	Final	71.88	71.88	0.00
011-0000008952-00	3/26/2001	Final	94.07	94.07	0.00
011-0000008953-00	3/25/2001	Final	0.00	0.00	0.00
011-0000008955-00	3/27/2001	Final	0.00	0.00	0.00
011-0000008957-00	2/23/2001	Final	0.00	0.00	0.00
011-0000008960-00	3/18/2001	Final	232.58	232.58	0.00
011-0000008963-00	3/24/2001	Final	0.00	0.00	0.00
011-0000008964-00	4/1/2001	Final	312.37	312.37	0.00
011-0000008965-00	3/26/2001	Final	309.72	309.72	0.00
011-0000008966-00	3/26/2001	Final	69.11	69.11	0.00
011-0000008968-00	4/3/2001	Final	0.00	0.00	0.00
011-0000008973-00	4/2/2001	Final	202.78	202.78	0.00
011-0000008974-00	4/4/2001	Final	429.18	429.18	0.00
011-0000008976-00	3/23/2001	Final	0.00	0.00	0.00
011-0000008977-00	3/22/2001	Final	95.42	95.42	0.00
011-0000008978-00	4/5/2001	Final	0.00	0.00	0.00
011-0000008979-00	4/5/2001	Final	0.00	0.00	0.00
011-0000008980-00	4/3/2001	Final	955.86	955.86	0.00
011-0000008981-00	4/7/2001	Final	872.73	872.73	0.00
011-0000008982-00	4/2/2001	Final	0.00	0.00	0.00
011-0000008984-00	4/8/2001	Final	696.48	696.48	0.00
011-0000008985-00	4/9/2001	Final	52.00	52.00	0.00
011-0000008988-00	3/1/2001	Final	0.00	0.00	0.00
011-0000008993-00	3/24/2001	Final	0.00	0.00	0.00
011-0000008996-00	4/12/2001	Final	0.00	0.00	0.00
011-0000008997-00	4/14/2001	Final	166.72	166.72	0.00
011-0000008999-00	4/15/2001	Final	0.00	0.00	0.00

l	Outstanding
0	0.00
0	0.00
0	0.00
9	0.00
0	0.00
9	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
0	0.00
6	0.00
2	0.00
9	0.00
0	0.00
3	0.00
0	0.00

al	Outstanding
48	0.00
00	0.00
29	0.00
00	0.00
00	0.00
12	0.00
00	0.00
30	0.00
97	0.00
30	0.00
00	0.00
20	0.00
00	0.00
00	0.00
00	0.00
63	0.00
00	0.00
00	0.00
00	0.00
00	0.00
00	0.00
00	0.00
.00	0.00
.00	0.00
.00	0.00
.85	0.00
.00	0.00
.00	0.00
.00	0.00
.75	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009084-00	4/24/2001	Final	122.89	122.89	0.00
011-0000009085-00	5/24/2001	Final	77.74	77.74	0.00
011-0000009086-00	5/25/2001	Final	286.37	286.37	0.00
011-0000009087-00	5/15/2001	Final	0.00	0.00	0.00
011-0000009088-00	5/30/2001	Final	125.00	125.00	0.00
011-0000009089-00	6/3/2001	Final	0.00	0.00	0.00
011-0000009090-00	2/15/2001	Final	0.00	0.00	0.00
011-0000009092-00	5/5/2001	Final	454.99	454.99	0.00
011-0000009093-00	3/19/2001	Final	2,226.03	2,226.03	0.00
011-0000009094-00	6/2/2001	Final	0.00	0.00	0.00
011-0000009096-00	5/27/2001	Final	0.00	0.00	0.00
011-0000009097-00	5/30/2001	Final	259.00	259.00	0.00
011-0000009098-00	5/20/2001	Final	141.00	141.00	0.00
011-0000009099-00	6/3/2001	Final	0.00	0.00	0.00
011-0000009100-00	6/5/2001	Final	0.00	0.00	0.00
011-0000009101-00	6/5/2001	Final	0.00	0.00	0.00
011-0000009102-00	6/5/2001	Final	0.00	0.00	0.00
011-0000009103-00	6/4/2001	Final	1,156.45	1,156.45	0.00
011-0000009104-00	6/1/2001	Final	240.00	240.00	0.00
011-0000009105-00	5/28/2001	Final	0.00	0.00	0.00
011-0000009106-00	6/5/2001	Final	0.00	0.00	0.00
011-0000009108-00	5/5/2001	Final	89.70	89.70	0.00
011-0000009109-00	5/24/2001	Final	209.38	209.38	0.00
011-0000009110-00	6/12/2001	Final	0.00	0.00	0.00
011-0000009111-00	6/12/2001	Final	114.58	114.58	0.00
011-0000009112-00	6/11/2001	Final	398.86	398.86	0.00
011-0000009114-00	6/14/2001	Final	0.00	0.00	0.00
011-0000009115-00	6/5/2001	Final	0.00	0.00	0.00
011-0000009116-00	6/14/2001	Final	0.00	0.00	0.00
011-0000009117-00	6/14/2001	Final	1,369.16	1,369.16	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009118-00	6/10/2001	Final	75.01	75.01	0.00
011-0000009119-00	6/14/2001	Final	1,055.00	1,055.00	0.00
011-0000009120-00	6/5/2001	Final	0.00	0.00	0.00
011-0000009121-00	6/14/2001	Final	0.00	0.00	0.00
011-0000009122-00	6/13/2001	Final	164.00	164.00	0.00
011-0000009124-00	6/18/2001	Final	0.00	0.00	0.00
011-0000009125-00	6/19/2001	Final	286.46	286.46	0.00
011-0000009126-00	6/19/2001	Final	0.00	0.00	0.00
011-0000009127-00	6/20/2001	Final	0.00	0.00	0.00
011-0000009128-00	6/19/2001	Final	88.54	88.54	0.00
011-0000009129-00	5/26/2001	Final	150.00	150.00	0.00
011-0000009130-00	5/30/2001	Final	463.53	463.53	0.00
011-0000009131-00	5/24/2001	Final	0.00	0.00	0.00
011-0000009132-00	6/18/2001	Final	3,835.34	3,835.34	0.00
011-0000009133-00	6/21/2001	Final	0.00	0.00	0.00
011-0000009134-00	6/21/2001	Final	0.00	0.00	0.00
011-0000009135-00	6/21/2001	Final	0.00	0.00	0.00
011-0000009136-00	6/21/2001	Final	0.00	0.00	0.00
011-0000009137-00	6/25/2001	Final	1,796.02	1,796.02	0.00
011-0000009138-00	6/21/2001	Final	240.00	240.00	0.00
011-0000009139-00	6/23/2001	Final	0.00	0.00	0.00
011-0000009141-00	6/25/2001	Final	328.02	328.02	0.00
011-0000009142-00	6/25/2001	Final	98.00	98.00	0.00
011-0000009143-00	6/25/2001	Final	25.00	25.00	0.00
011-0000009144-00	6/25/2001	Final	36.23	36.23	0.00
011-0000009146-00	6/21/2001	Final	0.00	0.00	0.00
011-0000009147-00	6/25/2001	Final	0.00	0.00	0.00
011-0000009148-00	6/25/2001	Final	0.00	0.00	0.00
011-0000009149-00	6/26/2001	Final	456.53	456.53	0.00
011-0000009153-00	5/1/2001	Final	0.00	0.00	0.00

Total	Outstanding
8.12	0.00
5.46	0.00
0.00	0.00
0.00	0.00
1.28	0.00
0.00	0.00
8.81	0.00
0.00	0.00
0.00	0.00
4.72	0.00
2.49	0.00
0.00	0.00
0.00	0.00
6.65	0.00
0.00	0.00
0.00	0.00
5.60	0.00
0.00	0.00
3.96	0.00
5.77	0.00
3.65	0.00
2.27	0.00
9.16	0.00
3.35	0.00
1.20	0.00
2.40	0.00
5.00	0.00
0.42	0.00
8.83	0.00
0.36	0.00

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000009195-00	7/14/2001 Final	604.42	604.42	0.00
011-0000009196-00	7/14/2001 Final	0.00	0.00	0.00
011-0000009197-00	7/14/2001 Final	330.20	330.20	0.00
011-0000009198-00	7/14/2001 Final	980.93	980.93	0.00
011-0000009199-00	7/14/2001 Final	272.33	272.33	0.00
011-0000009200-00	7/14/2001 Final	921.67	921.67	0.00
011-0000009201-00	7/14/2001 Final	146.87	146.87	0.00
011-0000009202-00	7/14/2001 Final	104.16	104.16	0.00
011-0000009203-00	7/14/2001 Final	265.61	265.61	0.00
011-0000009204-00	7/14/2001 Final	180.37	180.37	0.00
011-0000009205-00	7/14/2001 Final	262.16	262.16	0.00
011-0000009206-00	7/14/2001 Final	580.30	580.30	0.00
011-0000009207-00	7/14/2001 Final	317.71	317.71	0.00
011-0000009208-00	7/14/2001 Final	0.00	0.00	0.00
011-0000009209-00	7/14/2001 Final	259.89	259.89	0.00
011-0000009210-00	7/14/2001 Final	0.00	0.00	0.00
011-0000009211-00	7/14/2001 Final	215.23	215.23	0.00
011-0000009212-00	7/14/2001 Final	136.25	136.25	0.00
011-0000009213-00	7/14/2001 Final	141.35	141.35	0.00
011-0000009214-00	7/15/2001 Final	0.00	0.00	0.00
011-0000009215-00	7/14/2001 Final	114.55	114.55	0.00
011-0000009216-00	7/14/2001 Final	0.00	0.00	0.00
011-0000009217-00	7/14/2001 Final	195.84	195.84	0.00
011-0000009218-00	7/14/2001 Final	427.05	427.05	0.00
011-0000009219-00	7/14/2001 Final	156.22	156.22	0.00
011-0000009220-00	7/14/2001 Final	181.15	181.15	0.00
011-0000009221-00	7/15/2001 Final	332.92	332.92	0.00
011-0000009222-00	7/14/2001 Final	381.05	381.05	0.00
011-0000009223-00	7/14/2001 Final	0.00	0.00	0.00
011-0000009224-00	7/14/2001 Final	1,209.27	1,209.27	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009225-00	7/14/2001	Final	243.25	243.25	0.00
011-0000009226-00	7/14/2001	Final	114.01	114.01	0.00
011-0000009227-00	7/14/2001	Final	454.65	454.65	0.00
011-0000009228-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009229-00	7/14/2001	Final	360.55	360.55	0.00
011-0000009230-00	7/14/2001	Final	526.64	526.64	0.00
011-0000009231-00	7/14/2001	Final	763.99	763.99	0.00
011-0000009232-00	7/14/2001	Final	254.93	254.93	0.00
011-0000009233-00	7/14/2001	Final	224.57	224.57	0.00
011-0000009234-00	7/14/2001	Final	198.78	198.78	0.00
011-0000009235-00	7/14/2001	Final	163.08	163.08	0.00
011-0000009236-00	7/14/2001	Final	40.87	40.87	0.00
011-0000009237-00	7/14/2001	Final	500.00	500.00	0.00
011-0000009238-00	7/14/2001	Final	236.40	236.40	0.00
011-0000009239-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009240-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009241-00	7/14/2001	Final	94.03	94.03	0.00
011-0000009242-00	7/14/2001	Final	512.36	512.36	0.00
011-0000009243-00	7/14/2001	Final	116.48	116.48	0.00
011-0000009244-00	7/14/2001	Final	22.89	22.89	0.00
011-0000009245-00	7/14/2001	Final	23,013.88	23,013.88	0.00
011-0000009246-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009247-00	7/14/2001	Final	323.18	323.18	0.00
011-0000009248-00	7/14/2001	Final	313.32	313.32	0.00
011-0000009249-00	7/14/2001	Final	135.40	135.40	0.00
011-0000009251-00	7/14/2001	Final	208.00	208.00	0.00
011-0000009252-00	7/14/2001	Final	343.75	343.75	0.00
011-0000009253-00	7/14/2001	Final	549.65	549.65	0.00
011-0000009254-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009255-00	7/14/2001	Final	768.72	768.72	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009256-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009257-00	5/25/2001	Final	882.94	882.94	0.00
011-0000009258-00	7/14/2001	Final	179.00	179.00	0.00
011-0000009259-00	7/14/2001	Final	222.03	222.03	0.00
011-0000009260-00	7/14/2001	Final	155.02	155.02	0.00
011-0000009262-00	7/14/2001	Final	99.46	99.46	0.00
011-0000009263-00	7/14/2001	Final	750.00	750.00	0.00
011-0000009264-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009265-00	7/14/2001	Final	152.20	152.20	0.00
011-0000009266-00	7/14/2001	Final	143.75	143.75	0.00
011-0000009267-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009268-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009269-00	7/14/2001	Final	571.86	571.86	0.00
011-0000009270-00	7/14/2001	Final	60.00	60.00	0.00
011-0000009271-00	7/14/2001	Final	176.16	176.16	0.00
011-0000009272-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009273-00	7/14/2001	Final	227.44	227.44	0.00
011-0000009274-00	7/14/2001	Final	302.08	302.08	0.00
011-0000009275-00	7/14/2001	Final	167.99	167.99	0.00
011-0000009276-00	7/14/2001	Final	704.16	704.16	0.00
011-0000009277-00	7/14/2001	Final	1,631.39	1,631.39	0.00
011-0000009278-00	7/14/2001	Final	634.73	634.73	0.00
011-0000009279-00	7/14/2001	Final	62.49	62.49	0.00
011-0000009280-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009281-00	7/14/2001	Final	97.92	97.92	0.00
011-0000009282-00	7/14/2001	Final	51.04	51.04	0.00
011-0000009283-00	7/14/2001	Final	90.24	90.24	0.00
011-0000009284-00	7/14/2001	Final	437.96	437.96	0.00
011-0000009285-00	7/14/2001	Final	50.00	50.00	0.00
011-0000009286-00	7/14/2001	Final	39.99	39.99	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009287-00	7/14/2001	Final	147.34	147.34	0.00
011-0000009288-00	7/14/2001	Final	21.58	21.58	0.00
011-0000009289-00	7/14/2001	Final	57.23	57.23	0.00
011-0000009290-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009291-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009292-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009293-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009294-00	7/14/2001	Final	30.58	30.58	0.00
011-0000009295-00	7/14/2001	Final	14.11	14.11	0.00
011-0000009296-00	7/14/2001	Final	52.07	52.07	0.00
011-0000009297-00	7/18/2001	Final	100.00	100.00	0.00
011-0000009298-00	7/14/2001	Final	124.66	124.66	0.00
011-0000009299-00	7/14/2001	Final	1,092.15	1,092.15	0.00
011-0000009300-00	7/14/2001	Final	104.17	104.17	0.00
011-0000009301-00	7/14/2001	Final	268.11	268.11	0.00
011-0000009302-00	7/14/2001	Final	358.47	358.47	0.00
011-0000009303-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009304-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009305-00	7/14/2001	Final	75.00	75.00	0.00
011-0000009306-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009307-00	7/14/2001	Final	1,475.00	1,475.00	0.00
011-0000009308-00	7/14/2001	Final	180.98	180.98	0.00
011-0000009309-00	7/14/2001	Final	594.69	594.69	0.00
011-0000009310-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009311-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009312-00	7/14/2001	Final	831.25	831.25	0.00
011-0000009313-00	7/14/2001	Final	175.00	175.00	0.00
011-0000009314-00	7/14/2001	Final	72.84	72.84	0.00
011-0000009315-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009316-00	7/14/2001	Final	148.94	148.94	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009317-00	7/18/2001	Final	257.27	257.27	0.00
011-0000009318-00	7/14/2001	Final	38.48	38.48	0.00
011-0000009319-00	7/14/2001	Final	132.57	132.57	0.00
011-0000009320-00	7/14/2001	Final	2,396.05	2,396.05	0.00
011-0000009321-00	7/14/2001	Final	286.44	286.44	0.00
011-0000009322-00	7/14/2001	Final	326.05	326.05	0.00
011-0000009323-00	7/14/2001	Final	225.82	225.82	0.00
011-0000009324-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009325-00	7/14/2001	Final	127.45	127.45	0.00
011-0000009326-00	7/14/2001	Final	125.00	125.00	0.00
011-0000009327-00	7/14/2001	Final	513.28	513.28	0.00
011-0000009328-00	7/14/2001	Final	142.48	142.48	0.00
011-0000009329-00	6/25/2001	Final	0.00	0.00	0.00
011-0000009330-00	7/14/2001	Final	196.24	196.24	0.00
011-0000009331-00	6/20/2001	Final	0.00	0.00	0.00
011-0000009332-00	7/6/2001	Final	748.12	748.12	0.00
011-0000009333-00	7/14/2001	Final	98.33	98.33	0.00
011-0000009334-00	7/14/2001	Final	408.33	408.33	0.00
011-0000009337-00	7/14/2001	Final	405.59	405.59	0.00
011-0000009338-00	7/14/2001	Final	80.00	80.00	0.00
011-0000009339-00	7/14/2001	Final	90.00	90.00	0.00
011-0000009340-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009341-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009342-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009343-00	7/14/2001	Final	241.57	241.57	0.00
011-0000009344-00	7/17/2001	Final	0.00	0.00	0.00
011-0000009345-00	7/14/2001	Final	135.40	135.40	0.00
011-0000009346-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009347-00	7/21/2001	Final	0.00	0.00	0.00
011-0000009348-00	7/14/2001	Final	0.00	0.00	0.00

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er	Loss Date	Status	Incurred Total	Paid Total	Outstanding
2001					
9349-00	7/19/2001	Final	240.00	240.00	0.00
9350-00	7/14/2001	Final	0.00	0.00	0.00
9351-00	7/24/2001	Final	692.00	692.00	0.00
9352-00	6/20/2001	Final	0.00	0.00	0.00
9353-00	7/14/2001	Final	398.32	398.32	0.00
9354-00	7/14/2001	Final	0.00	0.00	0.00
9355-00	7/14/2001	Final	24.99	24.99	0.00
9356-00	7/14/2001	Final	0.00	0.00	0.00
9357-00	7/21/2001	Final	0.00	0.00	0.00
9358-00	7/21/2001	Final	120.00	120.00	0.00
9359-00	7/14/2001	Final	669.88	669.88	0.00
9360-00	7/24/2001	Final	0.00	0.00	0.00
9362-00	7/14/2001	Final	0.00	0.00	0.00
9364-00	7/23/2001	Final	0.00	0.00	0.00
9365-00	7/25/2001	Final	0.00	0.00	0.00
9366-00	7/27/2001	Final	0.00	0.00	0.00
9368-00	7/28/2001	Final	0.00	0.00	0.00
9369-00	7/14/2001	Final	124.62	124.62	0.00
9371-00	7/14/2001	Final	0.00	0.00	0.00
9373-00	7/14/2001	Final	192.62	192.62	0.00
9374-00	7/30/2001	Final	0.00	0.00	0.00
9378-00	7/14/2001	Final	403.82	403.82	0.00
9382-00	8/1/2001	Final	0.00	0.00	0.00
9385	8/1/2001	Final	98.96	98.96	0.00
9386-00	8/1/2001	Final	1,577.07	1,577.07	0.00
9389-00	8/1/2001	Final	3,329.64	3,329.64	0.00
9390-00	8/1/2001	Final	824.82	824.82	0.00
9391-00	8/1/2001	Final	0.00	0.00	0.00
9393-00	8/1/2001	Final	145.62	145.62	0.00
9395-00	8/1/2001	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009396-00	8/1/2001	Final	2,055.01	2,055.01	0.00
011-0000009398-00	7/14/2001	Final	350.00	350.00	0.00
011-0000009401-00	7/14/2001	Final	234.00	234.00	0.00
011-0000009404-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009405-00	7/14/2001	Final	1,867.12	1,867.12	0.00
011-0000009406-00	8/1/2001	Final	2,029.66	2,029.66	0.00
011-0000009407-00	8/1/2001	Final	1,756.65	1,756.65	0.00
011-0000009408-00	7/14/2001	Final	178.64	178.64	0.00
011-0000009410-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009411-00	8/4/2001	Final	0.00	0.00	0.00
011-0000009412-00	7/30/2001	Final	0.00	0.00	0.00
011-0000009413-00	7/14/2001	Final	135.40	135.40	0.00
011-0000009414-00	7/2/2001	Final	0.00	0.00	0.00
011-0000009415-00	7/14/2001	Final	104.17	104.17	0.00
011-0000009416-00	8/3/2001	Final	105.12	105.12	0.00
011-0000009417-00	8/1/2001	Final	1,549.64	1,549.64	0.00
011-0000009418-00	7/30/2001	Final	0.00	0.00	0.00
011-0000009419-00	8/3/2001	Final	0.00	0.00	0.00
011-0000009420-00	8/1/2001	Final	810.94	810.94	0.00
011-0000009421-00	8/1/2001	Final	1,041.93	1,041.93	0.00
011-0000009422-00	8/7/2001	Final	0.00	0.00	0.00
011-0000009423-00	7/27/2001	Final	104.17	104.17	0.00
011-0000009424-00	8/10/2001	Final	0.00	0.00	0.00
011-0000009425-00	8/10/2001	Final	0.00	0.00	0.00
011-0000009426-00	8/2/2001	Final	771.43	771.43	0.00
011-0000009427-00	8/10/2001	Final	1,915.92	1,915.92	0.00
011-0000009428-00	8/9/2001	Final	730.24	730.24	0.00
011-0000009429-00	8/3/2001	Final	0.00	0.00	0.00
011-0000009430-00	7/14/2001	Final	1,578.85	1,578.85	0.00
011-0000009431-00	7/14/2001	Final	1,047.13	1,047.13	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009432-00	8/13/2001	Final	1,020.57	1,020.57	0.00
011-0000009433-00	7/2/2001	Final	0.00	0.00	0.00
011-0000009434-00	8/7/2001	Final	0.00	0.00	0.00
011-0000009435-00	8/8/2001	Final	365.43	365.43	0.00
011-0000009436-00	7/14/2001	Final	4,413.39	4,413.39	0.00
011-0000009438-00	8/13/2001	Final	0.00	0.00	0.00
011-0000009439-00	8/1/2001	Final	0.00	0.00	0.00
011-0000009440-00	8/1/2001	Final	0.00	0.00	0.00
011-0000009441-00	8/13/2001	Final	75.00	75.00	0.00
011-0000009442-00	7/14/2001	Final	0.00	0.00	0.00
011-0000009443-00	7/27/2001	Final	197.90	197.90	0.00
011-0000009444-00	8/13/2001	Final	0.00	0.00	0.00
011-0000009445-00	8/10/2001	Final	223.40	223.40	0.00
011-0000009448-00	8/15/2001	Final	0.00	0.00	0.00
011-0000009449-00	8/13/2001	Final	0.00	0.00	0.00
011-0000009454-00	8/8/2001	Final	65.00	65.00	0.00
011-0000009455-00	6/22/2001	Final	171.87	171.87	0.00
011-0000009461-00	7/14/2001	Final	147.20	147.20	0.00
011-0000009463-00	8/1/2001	Final	0.00	0.00	0.00
011-0000009466-00	8/1/2001	Final	250.00	250.00	0.00
011-0000009467-00	8/1/2001	Final	0.00	0.00	0.00
011-0000009468-00	8/20/2001	Final	610.22	610.22	0.00
011-0000009469-00	8/1/2001	Final	0.00	0.00	0.00
011-0000009471-00	8/17/2001	Final	1,504.46	1,504.46	0.00
011-0000009472-00	8/4/2001	Final	0.00	0.00	0.00
011-0000009473-00	7/14/2001	Final	288.52	288.52	0.00
011-0000009474-00	8/21/2001	Final	57.00	57.00	0.00
011-0000009475-00	7/21/2001	Final	878.86	878.86	0.00
011-0000009476-00	8/16/2001	Final	0.00	0.00	0.00
011-0000009477-00	7/14/2001	Final	100.00	100.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009478-00	8/23/2001	Final	0.00	0.00	0.00
011-0000009479-00	8/23/2001	Final	0.00	0.00	0.00
011-0000009480-00	8/21/2001	Final	0.00	0.00	0.00
011-0000009481-00	8/16/2001	Final	450.00	450.00	0.00
011-0000009482-00	7/14/2001	Final	269.93	269.93	0.00
011-0000009484-00	7/18/2001	Final	0.00	0.00	0.00
011-0000009485-00	8/23/2001	Final	0.00	0.00	0.00
011-0000009489-00	8/27/2001	Final	0.00	0.00	0.00
011-0000009490-00	8/1/2001	Final	212.49	212.49	0.00
011-0000009493-00	8/19/2001	Final	0.00	0.00	0.00
011-0000009494-00	8/27/2001	Final	492.22	492.22	0.00
011-0000009495-00	6/25/2001	Final	0.00	0.00	0.00
011-0000009497-00	8/15/2001	Final	0.00	0.00	0.00
011-0000009498-00	8/28/2001	Final	0.00	0.00	0.00
011-0000009499-00	8/28/2001	Final	0.00	0.00	0.00
011-0000009500-00	8/23/2001	Final	199.00	199.00	0.00
011-0000009501-00	8/20/2001	Final	1,711.12	1,711.12	0.00
011-0000009502-00	8/27/2001	Final	135.93	135.93	0.00
011-0000009503-00	8/28/2001	Final	0.00	0.00	0.00
011-0000009506-00	8/1/2001	Final	1,075.46	1,075.46	0.00
011-0000009507-00	8/1/2001	Final	181.25	181.25	0.00
011-0000009508-00	8/1/2001	Final	2,691.38	2,691.38	0.00
011-0000009510-00	8/22/2001	Final	0.00	0.00	0.00
011-0000009511-00	8/25/2001	Final	0.00	0.00	0.00
011-0000009512-00	9/3/2001	Final	403.02	403.02	0.00
011-0000009513-00	8/27/2001	Final	700.00	700.00	0.00
011-0000009514-00	8/31/2001	Final	240.00	240.00	0.00
011-0000009515-00	9/3/2001	Final	105.79	105.79	0.00
011-0000009516-00	8/27/2001	Final	0.00	0.00	0.00
011-0000009517-00	7/14/2001	Final	313.00	313.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009519-00	8/13/2001	Final	0.00	0.00	0.00
011-0000009520-00	9/4/2001	Final	437.49	437.49	0.00
011-0000009522-00	8/6/2001	Final	0.00	0.00	0.00
011-0000009524-00	8/30/2001	Final	0.00	0.00	0.00
011-0000009525-00	9/5/2001	Final	240.00	240.00	0.00
011-0000009526-00	7/10/2001	Final	0.00	0.00	0.00
011-0000009527-00	9/6/2001	Final	0.00	0.00	0.00
011-0000009528-00	8/6/2001	Final	5,885.38	5,885.38	0.00
011-0000009529-00	9/6/2001	Final	0.00	0.00	0.00
011-0000009530-00	9/10/2001	Final	0.00	0.00	0.00
011-0000009531-00	3/19/2001	Final	1,979.15	1,979.15	0.00
011-0000009532-00	9/12/2001	Final	276.34	276.34	0.00
011-0000009533-00	9/12/2001	Final	0.00	0.00	0.00
011-0000009534-00	9/12/2001	Final	168.40	168.40	0.00
011-0000009535-00	9/12/2001	Final	0.00	0.00	0.00
011-0000009536-00	9/12/2001	Final	0.00	0.00	0.00
011-0000009537-00	9/14/2001	Final	987.71	987.71	0.00
011-0000009538-00	9/13/2001	Final	1,213.04	1,213.04	0.00
011-0000009539-00	9/14/2001	Final	416.00	416.00	0.00
011-0000009541-00	9/1/2001	Final	0.00	0.00	0.00
011-0000009542-00	9/16/2001	Final	295.22	295.22	0.00
011-0000009544-00	9/13/2001	Final	175.00	175.00	0.00
011-0000009545-00	9/13/2001	Final	0.00	0.00	0.00
011-0000009546-00	9/12/2001	Final	185.24	185.24	0.00
011-0000009548-00	7/28/2001	Final	0.00	0.00	0.00
011-0000009549-00	8/30/2001	Final	0.00	0.00	0.00
011-0000009550-00	9/12/2001	Final	0.00	0.00	0.00
011-0000009551-00	4/1/2001	Final	0.00	0.00	0.00
011-0000009552-00	9/10/2001	Final	0.00	0.00	0.00
011-0000009553-00	9/18/2001	Final	353.45	353.45	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009554-00	9/12/2001	Final	0.00	0.00	0.00
011-0000009555-00	8/4/2001	Final	300.33	300.33	0.00
011-0000009556-00	8/22/2001	Final	0.00	0.00	0.00
011-0000009557-00	9/19/2001	Final	300.83	300.83	0.00
011-0000009558-00	9/18/2001	Final	125.00	125.00	0.00
011-0000009559-00	9/20/2001	Final	720.00	720.00	0.00
011-0000009560-00	9/21/2001	Final	0.00	0.00	0.00
011-0000009561-00	9/21/2001	Final	0.00	0.00	0.00
011-0000009562-00	9/22/2001	Final	678.04	678.04	0.00
011-0000009563-00	9/19/2001	Final	2,419.33	2,419.33	0.00
011-0000009564-00	7/14/2001	Final	192.48	192.48	0.00
011-0000009565-00	9/18/2001	Final	0.00	0.00	0.00
011-0000009566-00	9/18/2001	Final	0.00	0.00	0.00
011-0000009568-00	9/26/2001	Final	0.00	0.00	0.00
011-0000009569-00	8/23/2001	Final	0.00	0.00	0.00
011-0000009570-00	9/26/2001	Final	74.19	74.19	0.00
011-0000009571-00	9/30/2001	Final	514.21	514.21	0.00
011-0000009573-00	10/1/2001	Final	61.49	61.49	0.00
011-0000009574-00	9/28/2001	Final	109.54	109.54	0.00
011-0000009575-00	9/29/2001	Final	240.00	240.00	0.00
011-0000009576-00	6/1/2001	Final	0.00	0.00	0.00
011-0000009577-00	8/24/2001	Final	0.00	0.00	0.00
011-0000009578-00	9/25/2001	Final	0.00	0.00	0.00
011-0000009579-00	9/12/2001	Final	1,067.60	1,067.60	0.00
011-0000009580-00	9/4/2001	Final	0.00	0.00	0.00
011-0000009581-00	9/20/2001	Final	0.00	0.00	0.00
011-0000009582-00	10/2/2001	Final	471.08	471.08	0.00
011-0000009583-00	10/5/2001	Final	438.48	438.48	0.00
011-0000009584-00	10/5/2001	Final	0.00	0.00	0.00
011-0000009585-00	10/7/2001	Final	0.00	0.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001					
011-0000009586-00	9/29/2001	Final	0.00	0.00	0.00
011-0000009587-00	7/14/2001	Final	88.35	88.35	0.00
011-0000009588-00	10/1/2001	Final	93.74	93.74	0.00
011-0000009589-00	10/6/2001	Final	0.00	0.00	0.00
011-0000009590-00	10/9/2001	Final	678.27	678.27	0.00
011-0000009591-00	10/6/2001	Final	0.00	0.00	0.00
011-0000009592-00	10/4/2001	Final	123.47	123.47	0.00
011-0000009593-00	10/7/2001	Final	0.00	0.00	0.00
011-0000009596-00	9/29/2001	Final	0.00	0.00	0.00
011-0000009599-00	10/5/2001	Final	240.00	240.00	0.00
011-0000009601-00	10/10/2001	Final	0.00	0.00	0.00
011-0000009602-00	10/8/2001	Final	0.00	0.00	0.00
011-0000009603-00	10/11/2001	Final	91.66	91.66	0.00
011-0000009604-00	10/11/2001	Final	0.00	0.00	0.00
011-0000009605-00	10/11/2001	Final	276.20	276.20	0.00
011-0000009606-00	9/30/2001	Final	167.21	167.21	0.00
011-0000009607-00	9/7/2001	Final	0.00	0.00	0.00
011-0000009608-00	10/16/2001	Final	63.00	63.00	0.00
011-0000009609-00	10/16/2001	Final	0.00	0.00	0.00
011-0000009610-00	10/5/2001	Final	453.12	453.12	0.00
011-0000009611-00	10/7/2001	Final	0.00	0.00	0.00
011-0000009612-00	10/11/2001	Final	305.20	305.20	0.00
011-0000009615-00	8/1/2001	Final	0.00	0.00	0.00
011-0000009617-00	9/15/2001	Final	133.49	133.49	0.00
011-0000009618-00	8/22/2001	Final	510.40	510.40	0.00
011-0000009619-00	8/22/2001	Final	504.50	504.50	0.00
011-0000009620-00	8/22/2001	Final	738.07	738.07	0.00
011-0000009621-00	10/8/2001	Final	0.00	0.00	0.00
011-0000009622-00	10/19/2001	Final	0.00	0.00	0.00
011-0000009623-00	8/3/2001	Final	811.20	811.20	0.00

Total	Outstanding
8.26	0.00
0.00	0.00
0.00	0.00
9.24	0.00
0.00	0.00
0.00	0.00
4.51	0.00
5.00	0.00
0.24	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
8.77	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
1.87	0.00
0.00	0.00
0.00	0.00
0.40	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.63	0.00
0.00	0.00
3.50	0.00

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Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
ate: 2001				
00009658-00	10/31/2001Final	334.79	334.79	0.00
00009659-00	11/7/2001 Final	73.53	73.53	0.00
00009660-00	11/7/2001 Final	0.00	0.00	0.00
00009661-00	11/7/2001 Final	0.00	0.00	0.00
00009662-00	10/27/2001Final	554.00	554.00	0.00
00009664-00	10/12/2001Final	0.00	0.00	0.00
00009665-00	11/7/2001 Final	0.00	0.00	0.00
00009666-00	11/6/2001 Final	240.00	240.00	0.00
00009667-00	10/12/2001Final	0.00	0.00	0.00
00009668-00	10/22/2001Final	0.00	0.00	0.00
00009670-00	10/31/2001Final	653.97	653.97	0.00
00009671-00	9/19/2001 Final	0.00	0.00	0.00
00009672-00	11/10/2001Final	617.86	617.86	0.00
00009673-00	11/9/2001 Final	240.00	240.00	0.00
00009674-00	11/2/2001 Final	84.37	84.37	0.00
00009675-00	11/14/2001Final	311.46	311.46	0.00
00009677-00	11/13/2001Final	99.99	99.99	0.00
00009678-00	11/18/2001Final	0.00	0.00	0.00
00009679-00	11/8/2001 Final	0.00	0.00	0.00
00009680-00	10/22/2001Final	0.00	0.00	0.00
00009681-00	10/25/2001Final	0.00	0.00	0.00
00009682-00	11/14/2001Final	1,534.00	1,534.00	0.00
00009683-00	11/19/2001Final	1,598.29	1,598.29	0.00
00009685-00	10/31/2001Final	1,040.63	1,040.63	0.00
00009687-00	11/20/2001Final	1,571.04	1,571.04	0.00
00009688-00	11/21/2001Final	0.00	0.00	0.00
00009689-00	11/20/2001Final	0.00	0.00	0.00
00009690-00	11/21/2001Final	0.00	0.00	0.00
00009691-00	11/10/2001Final	1,872.00	1,872.00	0.00
00009692-00	10/9/2001 Final	0.00	0.00	0.00

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000009693-00	11/7/2001 Final	26.58	26.58	0.00
011-0000009694-00	11/25/2001Final	0.00	0.00	0.00
011-0000009695-00	11/21/2001Final	0.00	0.00	0.00
011-0000009696-00	11/21/2001Final	0.00	0.00	0.00
011-0000009697-00	11/25/2001Final	0.00	0.00	0.00
011-0000009698-00	11/22/2001Final	393.72	393.72	0.00
011-0000009699-00	11/25/2001Final	69.99	69.99	0.00
011-0000009700-00	11/21/2001Final	0.00	0.00	0.00
011-0000009701-00	11/26/2001Final	0.00	0.00	0.00
011-0000009702-00	11/27/2001Final	0.00	0.00	0.00
011-0000009703-00	11/27/2001Final	0.00	0.00	0.00
011-0000009704-00	11/26/2001Final	0.00	0.00	0.00
011-0000009705-00	11/27/2001Final	698.32	698.32	0.00
011-0000009706-00	11/26/2001Final	0.00	0.00	0.00
011-0000009707-00	11/23/2001Final	967.28	967.28	0.00
011-0000009708-00	11/27/2001Final	0.00	0.00	0.00
011-0000009709-00	11/27/2001Final	0.00	0.00	0.00
011-0000009710-00	11/27/2001Final	0.00	0.00	0.00
011-0000009711-00	11/26/2001Final	0.00	0.00	0.00
011-0000009712-00	11/26/2001Final	0.00	0.00	0.00
011-0000009713-00	11/26/2001Final	0.00	0.00	0.00
011-0000009714-00	11/27/2001Final	750.24	750.24	0.00
011-0000009715-00	11/26/2001Final	142.75	142.75	0.00
011-0000009716-00	11/27/2001Final	18.70	18.70	0.00
011-0000009717-00	11/27/2001Final	804.51	804.51	0.00
011-0000009718-00	11/26/2001Final	0.00	0.00	0.00
011-0000009719-00	11/27/2001Final	269.04	269.04	0.00
011-0000009720-00	11/27/2001Final	506.80	506.80	0.00
011-0000009721-00	11/27/2001Final	0.00	0.00	0.00
011-0000009722-00	11/27/2001Final	0.00	0.00	0.00

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000009723-00	11/27/2001Final	62.50	62.50	0.00
011-0000009724-00	11/27/2001Final	81.96	81.96	0.00
011-0000009725-00	11/27/2001Final	0.00	0.00	0.00
011-0000009726-00	11/26/2001Final	0.00	0.00	0.00
011-0000009727-00	11/27/2001Final	508.90	508.90	0.00
011-0000009728-00	11/26/2001Final	214.18	214.18	0.00
011-0000009729-00	11/26/2001Final	3,021.21	3,021.21	0.00
011-0000009730-00	11/24/2001Final	0.00	0.00	0.00
011-0000009731-00	11/27/2001Final	316.00	316.00	0.00
011-0000009732-00	11/27/2001Final	379.11	379.11	0.00
011-0000009733-00	11/26/2001Final	222.26	222.26	0.00
011-0000009734-00	11/26/2001Final	0.00	0.00	0.00
011-0000009735-00	11/27/2001Final	0.00	0.00	0.00
011-0000009736-00	11/25/2001Final	101.08	101.08	0.00
011-0000009737-00	10/22/2001Final	0.00	0.00	0.00
011-0000009738-00	11/17/2001Final	0.00	0.00	0.00
011-0000009739-00	11/27/2001Final	0.00	0.00	0.00
011-0000009740-00	11/27/2001Final	98.95	98.95	0.00
011-0000009741-00	11/26/2001Final	0.00	0.00	0.00
011-0000009742-00	11/26/2001Final	0.00	0.00	0.00
011-0000009743-00	11/27/2001Final	80.93	80.93	0.00
011-0000009744-00	11/27/2001Final	320.00	320.00	0.00
011-0000009745-00	11/26/2001Final	0.00	0.00	0.00
011-0000009746-00	11/27/2001Final	365.00	365.00	0.00
011-0000009747-00	11/27/2001Final	58.95	58.95	0.00
011-0000009748-00	11/27/2001Final	132.95	132.95	0.00
011-0000009749-00	11/27/2001Final	0.00	0.00	0.00
011-0000009750-00	11/27/2001Final	67.00	67.00	0.00
011-0000009751-00	11/27/2001Final	0.00	0.00	0.00
011-0000009752-00	11/21/2001Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000009753-00	11/27/2001Final	0.00	0.00	0.00
011-0000009754-00	11/27/2001Final	104.97	104.97	0.00
011-0000009755-00	11/26/2001Final	0.00	0.00	0.00
011-0000009756-00	11/12/2001Final	164.75	164.75	0.00
011-0000009757-00	11/28/2001Final	0.00	0.00	0.00
011-0000009758-00	11/28/2001Final	469.63	469.63	0.00
011-0000009759-00	11/29/2001Final	0.00	0.00	0.00
011-0000009760-00	11/27/2001Final	0.00	0.00	0.00
011-0000009761-00	11/26/2001Final	0.00	0.00	0.00
011-0000009762-00	11/27/2001Final	167.35	167.35	0.00
011-0000009763-00	11/27/2001Final	0.00	0.00	0.00
011-0000009764-00	11/27/2001Final	0.00	0.00	0.00
011-0000009765-00	11/12/2001Final	279.14	279.14	0.00
011-0000009766-00	11/28/2001Final	0.00	0.00	0.00
011-0000009767-00	11/27/2001Final	0.00	0.00	0.00
011-0000009768-00	11/29/2001Final	928.86	928.86	0.00
011-0000009769-00	11/27/2001Final	31.24	31.24	0.00
011-0000009770-00	11/26/2001Final	0.00	0.00	0.00
011-0000009771-00	11/26/2001Final	240.00	240.00	0.00
011-0000009772-00	11/27/2001Final	114.58	114.58	0.00
011-0000009773-00	11/25/2001Final	226.03	226.03	0.00
011-0000009774-00	11/21/2001Final	0.00	0.00	0.00
011-0000009775-00	11/24/2001Final	1,247.12	1,247.12	0.00
011-0000009776-00	11/27/2001Final	254.84	254.84	0.00
011-0000009777-00	11/26/2001Final	0.00	0.00	0.00
011-0000009778-00	11/21/2001Final	0.00	0.00	0.00
011-0000009779-00	11/6/2001 Final	0.00	0.00	0.00
011-0000009780-00	11/28/2001Final	150.00	150.00	0.00
011-0000009781-00	11/26/2001Final	295.59	295.59	0.00
011-0000009782-00	11/27/2001Final	75.00	75.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000009783-00	11/22/2001Final	115.00	115.00	0.00
011-0000009784-00	11/27/2001Final	0.00	0.00	0.00
011-0000009785-00	12/1/2001 Final	1,924.53	1,924.53	0.00
011-0000009786-00	12/2/2001 Final	0.00	0.00	0.00
011-0000009787-00	11/28/2001Final	0.00	0.00	0.00
011-0000009788-00	12/1/2001 Final	458.33	458.33	0.00
011-0000009789-00	12/3/2001 Final	0.00	0.00	0.00
011-0000009790-00	11/28/2001Final	0.00	0.00	0.00
011-0000009791-00	11/26/2001Final	512.49	512.49	0.00
011-0000009792-00	12/1/2001 Final	0.00	0.00	0.00
011-0000009793-00	12/1/2001 Final	0.00	0.00	0.00
011-0000009794-00	12/3/2001 Final	0.00	0.00	0.00
011-0000009795-00	11/25/2001Final	0.00	0.00	0.00
011-0000009796-00	12/3/2001 Final	0.00	0.00	0.00
011-0000009797-00	11/27/2001Final	0.00	0.00	0.00
011-0000009798-00	11/24/2001Final	32.09	32.09	0.00
011-0000009799-00	11/25/2001Final	223.97	223.97	0.00
011-0000009800-00	11/27/2001Final	91.98	91.98	0.00
011-0000009801-00	11/27/2001Final	120.96	120.96	0.00
011-0000009802-00	11/27/2001Final	0.00	0.00	0.00
011-0000009803-00	12/3/2001 Final	172.49	172.49	0.00
011-0000009804-00	11/26/2001Final	81.41	81.41	0.00
011-0000009805-00	12/1/2001 Final	184.37	184.37	0.00
011-0000009806-00	11/27/2001Final	50.00	50.00	0.00
011-0000009807-00	11/30/2001Final	0.00	0.00	0.00
011-0000009808-00	12/1/2001 Final	66.67	66.67	0.00
011-0000009809-00	11/25/2001Final	279.68	279.68	0.00
011-0000009810-00	11/19/2001Final	0.00	0.00	0.00
011-0000009811-00	11/27/2001Final	53.24	53.24	0.00
011-0000009812-00	11/27/2001Final	269.78	269.78	0.00

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ber	Loss Date Status	Incurred Total	Paid Total	Outstanding
2001				
)9813-00	11/29/2001Final	300.46	300.46	0.00
)9814-00	11/26/2001Final	0.00	0.00	0.00
)9815-00	11/20/2001Final	0.00	0.00	0.00
)9816-00	11/27/2001Final	497.98	497.98	0.00
)9817-00	12/2/2001 Final	515.84	515.84	0.00
)9818-00	12/3/2001 Final	502.00	502.00	0.00
)9819-00	11/26/2001Final	0.00	0.00	0.00
)9825-00	11/29/2001Final	0.00	0.00	0.00
)9827-00	11/26/2001Final	736.07	736.07	0.00
)9830-00	12/5/2001 Final	0.00	0.00	0.00
)9838-00	11/26/2001Final	0.00	0.00	0.00
)9840-00	12/4/2001 Final	420.75	420.75	0.00
)9841-00	11/26/2001Final	63.54	63.54	0.00
)9842-00	12/3/2001 Final	0.00	0.00	0.00
)9843-00	11/26/2001Final	82.99	82.99	0.00
)9844-00	12/5/2001 Final	225.00	225.00	0.00
9845-00	12/7/2001 Final	0.00	0.00	0.00
9846-00	11/27/2001Final	0.00	0.00	0.00
9849-00	11/27/2001Final	0.00	0.00	0.00
9852-00	11/27/2001Final	52.35	52.35	0.00
9853-00	12/11/2001Final	0.00	0.00	0.00
9854-00	11/18/2001Final	15,951.00	15,951.00	0.00
9855-00	11/18/2001Final	687.50	687.50	0.00
9856-00	11/27/2001Final	201.50	201.50	0.00
9857-00	12/13/2001Final	0.00	0.00	0.00
9858-00	11/28/2001Final	0.00	0.00	0.00
9861-00	12/13/2001Final	0.00	0.00	0.00
9862-00	11/24/2001Final	139.59	139.59	0.00
)863-00	11/27/2001Final	0.00	0.00	0.00
)864-00	11/27/2001Final	196.85	196.85	0.00

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Hawaiian Electric Co., Inc.

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000009865-00	12/3/2001 Final	0.00	0.00	0.00
011-0000009866-00	11/20/2001Final	0.00	0.00	0.00
011-0000009867-00	10/30/2001Final	190.89	190.89	0.00
011-0000009868-00	12/9/2001 Final	75.12	75.12	0.00
011-0000009869-00	11/27/2001Final	528.86	528.86	0.00
011-0000009870-00	11/18/2001Final	415.54	415.54	0.00
011-0000009871-00	12/15/2001Final	0.00	0.00	0.00
011-0000009872-00	12/14/2001Final	0.00	0.00	0.00
011-0000009873-00	10/2/2001 Final	0.00	0.00	0.00
011-0000009874-00	12/16/2001Final	1,222.71	1,222.71	0.00
011-0000009875-00	12/16/2001Final	191.66	191.66	0.00
011-0000009876-00	11/27/2001Final	1,605.01	1,605.01	0.00
011-0000009877-00	12/9/2001 Final	610.65	610.65	0.00
011-0000009879-00	12/16/2001Final	0.00	0.00	0.00
011-0000009880-00	11/12/2001Final	0.00	0.00	0.00
011-0000009881-00	12/4/2001 Final	0.00	0.00	0.00
011-0000009882-00	11/7/2001 Final	0.00	0.00	0.00
011-0000009883-00	12/6/2001 Final	200.91	200.91	0.00
011-0000009884-00	11/26/2001Final	25.00	25.00	0.00
011-0000009885-00	11/27/2001Final	0.00	0.00	0.00
011-0000009886-00	11/27/2001Final	298.93	298.93	0.00
011-0000009887-00	12/18/2001Final	0.00	0.00	0.00
011-0000009888-00	11/26/2001Final	0.00	0.00	0.00
011-0000009889-00	12/13/2001Final	0.00	0.00	0.00
011-0000009892-00	12/4/2001 Final	0.00	0.00	0.00
011-0000009893-00	12/14/2001Final	198.09	198.09	0.00
011-0000009894-00	11/26/2001Final	0.00	0.00	0.00
011-0000009895-00	11/27/2001Final	184.71	184.71	0.00
011-0000009896-00	12/21/2001Final	0.00	0.00	0.00
011-0000009897-00	11/26/2001Final	0.00	0.00	0.00

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atus	Incurred Total	Paid Total	Outstanding
ıal	0.00	0.00	0.00
ıal	160.96	160.96	0.00
ıal	0.00	0.00	0.00
ıal	548.82	548.82	0.00
ıal	0.00	0.00	0.00
ıal	260.00	260.00	0.00
ıal	306.80	306.80	0.00
ıal	1,862.94	1,862.94	0.00
ıal	0.00	0.00	0.00
ıal	226.00	226.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	6,016.05	6,016.05	0.00
ıal	0.00	0.00	0.00
ıal	343.75	343.75	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00
ıal	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000009941-00	12/12/2001Final	0.00	0.00	0.00
011-0000009942-00	12/23/2001Final	0.00	0.00	0.00
011-0000009943-00	12/29/2001Final	0.00	0.00	0.00
011-0000009944-00	12/20/2001Final	122.78	122.78	0.00
011-0000009946-00	12/28/2001Final	0.00	0.00	0.00
011-0000009950-00	11/27/2001Final	0.00	0.00	0.00
011-0000009951-00	12/15/2001Final	0.00	0.00	0.00
011-0000009952-00	12/8/2001 Final	28.94	28.94	0.00
011-0000009966-00	12/8/2001 Final	0.00	0.00	0.00
011-0000009967-00	12/19/2001Final	0.00	0.00	0.00
011-0000009968-00	11/27/2001Final	0.00	0.00	0.00
011-0000009969-00	11/21/2001Final	0.00	0.00	0.00
011-0000009975-00	12/30/2001Final	0.00	0.00	0.00
011-0000009984-00	12/29/2001Final	177.07	177.07	0.00
011-0000009991-00	12/31/2001Final	0.00	0.00	0.00
011-0000010001-00	12/26/2001Final	0.00	0.00	0.00
011-0000010009-00	12/28/2001Final	0.00	0.00	0.00
011-0000010018-00	12/30/2001Final	0.00	0.00	0.00
011-0000010026-00	11/26/2001Final	0.00	0.00	0.00
011-0000010034-00	12/12/2001Final	0.00	0.00	0.00
011-0000010035-00	12/30/2001Final	61.46	61.46	0.00
011-0000010041-00	11/26/2001Final	0.00	0.00	0.00
011-0000010070-00	12/21/2001Final	0.00	0.00	0.00
011-0000010082-00	12/29/2001Final	3,878.07	3,878.07	0.00
011-0000010119-00	12/1/2001 Final	0.00	0.00	0.00
011-0000010199-00	9/6/2001 Final	694.25	694.25	0.00
011-0000010221-00	8/23/2001 Final	0.00	0.00	0.00
011-0000010222-00	11/23/2001Final	91.52	91.52	0.00
011-0000010223-00	11/23/2001Final	91.52	91.52	0.00
011-0000010224-00	11/26/2001Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2001				
011-0000010225-00	11/26/2001Final	0.00	0.00	0.00
011-0000010226-00	11/27/2001Final	0.00	0.00	0.00
011-0000010227-00	11/27/2001Final	0.00	0.00	0.00
011-0000010228-00	11/28/2001Final	0.00	0.00	0.00
011-0000010229-00	11/28/2001Final	0.00	0.00	0.00
011-0000010230-00	11/28/2001Final	0.00	0.00	0.00
011-0000010231-00	11/28/2001Final	0.00	0.00	0.00
011-0000010232-00	11/30/2001Final	0.00	0.00	0.00
011-0000010233-00	11/30/2001Final	0.00	0.00	0.00
011-0000010234-00	12/3/2001 Final	156.00	156.00	0.00
011-0000010236-00	10/8/2001 Final	218.40	218.40	0.00
011-0000010237-00	11/26/2001Final	0.00	0.00	0.00
011-0000010238-00	11/27/2001Final	0.00	0.00	0.00
011-0000010239-00	12/3/2001 Final	0.00	0.00	0.00
011-0000010240-00	12/13/2001Final	145.60	145.60	0.00
011-0000010241-00	12/13/2001Final	202.00	202.00	0.00
011-0000010242-00	12/24/2001Final	0.00	0.00	0.00
011-0000010255-00	11/27/2001Final	1,507.55	1,507.55	0.00
011-0000010272-00	11/11/2001Final	346.67	346.67	0.00
011-0000010309-00	11/27/2001Final	696.67	696.67	0.00
011-0000010341-00	11/1/2001 Final	1,780.39	1,780.39	0.00
011-0000010665-00	12/8/2001 Final	777.12	777.12	0.00
011-0000010859-00	11/21/2001Final	46.83	46.83	0.00
011-0000011095-00	10/23/2001Final	8,960.87	8,960.87	0.00
011-0000011096-00	10/31/2001Final	2,139.90	2,139.90	0.00
011-0000011311-00	1/1/2001 Final	0.00	0.00	0.00
Total By Loss Date:			**1,076 Claims**	
		317,601.44	**317,601.44**	

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000009924-00	1/1/2002	Final	0.00	0.00	0.00
011-0000009934-00	1/5/2002	Final	2,101.28	2,101.28	0.00
011-0000009935-00	1/2/2002	Final	0.00	0.00	0.00
011-0000009945-00	1/4/2002	Final	240.00	240.00	0.00
011-0000009947-00	1/7/2002	Final	10.00	10.00	0.00
011-0000009948-00	1/7/2002	Final	0.00	0.00	0.00
011-0000009949-00	1/6/2002	Final	85.44	85.44	0.00
011-0000009972-00	1/7/2002	Final	730.00	730.00	0.00
011-0000009973-00	1/9/2002	Final	471.90	471.90	0.00
011-0000009974-00	1/11/2002	Final	395.84	395.84	0.00
011-0000009976-00	1/14/2002	Final	0.00	0.00	0.00
011-0000009977-00	1/17/2002	Final	0.00	0.00	0.00
011-0000009979-00	1/17/2002	Final	0.00	0.00	0.00
011-0000009980-00	1/18/2002	Final	0.00	0.00	0.00
011-0000009981-00	1/7/2002	Final	1,646.60	1,646.60	0.00
011-0000009982-00	1/20/2002	Final	156.24	156.24	0.00
011-0000009983-00	1/19/2002	Final	1,109.10	1,109.10	0.00
011-0000009985-00	1/4/2002	Final	864.57	864.57	0.00
011-0000009986-00	1/19/2002	Final	100.00	100.00	0.00
011-0000009987-00	1/21/2002	Final	578.73	578.73	0.00
011-0000009988-00	1/3/2002	Final	0.00	0.00	0.00
011-0000009989-00	1/18/2002	Final	0.00	0.00	0.00
011-0000009990-00	1/21/2002	Final	265.12	265.12	0.00
011-0000009992-00	1/17/2002	Final	0.00	0.00	0.00
011-0000009993-00	1/19/2002	Final	0.00	0.00	0.00
011-0000009994-00	1/19/2002	Final	0.00	0.00	0.00
011-0000009995-00	1/19/2002	Final	910.48	910.48	0.00
011-0000009997-00	1/19/2002	Final	0.00	0.00	0.00
011-0000009998-00	1/18/2002	Final	70.61	70.61	0.00
011-0000009999-00	1/16/2002	Final	330.25	330.25	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010002-00	1/22/2002	Final	0.00	0.00	0.00
011-0000010003-00	1/23/2002	Final	240.00	240.00	0.00
011-0000010004-00	1/8/2002	Final	913.34	913.34	0.00
011-0000010005-00	1/19/2002	Final	618.04	618.04	0.00
011-0000010006-00	1/23/2002	Final	0.00	0.00	0.00
011-0000010007-00	1/27/2002	Final	172.69	172.69	0.00
011-0000010008-00	1/26/2002	Final	0.00	0.00	0.00
011-0000010011-00	1/27/2002	Final	615.00	615.00	0.00
011-0000010012-00	1/27/2002	Final	0.00	0.00	0.00
011-0000010013-00	1/23/2002	Final	484.36	484.36	0.00
011-0000010014-00	1/19/2002	Final	63.04	63.04	0.00
011-0000010015-00	1/18/2002	Final	123.96	123.96	0.00
011-0000010016-00	1/21/2002	Final	55.00	55.00	0.00
011-0000010017-00	1/23/2002	Final	0.00	0.00	0.00
011-0000010019-00	1/28/2002	Final	0.00	0.00	0.00
011-0000010024-00	1/18/2002	Final	0.00	0.00	0.00
011-0000010025-00	1/29/2002	Final	0.00	0.00	0.00
011-0000010027-00	1/29/2002	Final	249.00	249.00	0.00
011-0000010028-00	1/6/2002	Final	88.07	88.07	0.00
011-0000010029-00	1/11/2002	Final	716.83	716.83	0.00
011-0000010030-00	1/23/2002	Final	0.00	0.00	0.00
011-0000010031-00	1/28/2002	Final	1,064.62	1,064.62	0.00
011-0000010032-00	1/30/2002	Final	200.00	200.00	0.00
011-0000010033-00	1/29/2002	Final	500.00	500.00	0.00
011-0000010036-00	1/30/2002	Final	77.09	77.09	0.00
011-0000010037-00	1/30/2002	Final	1,212.95	1,212.95	0.00
011-0000010042-00	1/28/2002	Final	90.00	90.00	0.00
011-0000010043-00	2/2/2002	Final	129.60	129.60	0.00
011-0000010046-00	2/4/2002	Final	861.18	861.18	0.00
011-0000010047-00	1/7/2002	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010050-00	2/1/2002	Final	0.00	0.00	0.00
011-0000010051-00	2/4/2002	Final	0.00	0.00	0.00
011-0000010052-00	1/6/2002	Final	104.17	104.17	0.00
011-0000010053-00	1/27/2002	Final	0.00	0.00	0.00
011-0000010054-00	1/28/2002	Final	50.00	50.00	0.00
011-0000010055-00	1/29/2002	Final	0.00	0.00	0.00
011-0000010060-00	1/13/2002	Final	711.46	711.46	0.00
011-0000010061-00	2/4/2002	Final	0.00	0.00	0.00
011-0000010062-00	2/6/2002	Final	240.00	240.00	0.00
011-0000010063-00	2/3/2002	Final	0.00	0.00	0.00
011-0000010064-00	1/31/2002	Final	637.32	637.32	0.00
011-0000010067-00	2/10/2002	Final	0.00	0.00	0.00
011-0000010068-00	1/24/2002	Final	0.00	0.00	0.00
011-0000010069-00	2/12/2002	Final	389.21	389.21	0.00
011-0000010073-00	1/28/2002	Final	431.31	431.31	0.00
011-0000010074-00	2/12/2002	Final	0.00	0.00	0.00
011-0000010075-00	1/19/2002	Final	75.52	75.52	0.00
011-0000010076-00	2/9/2002	Final	323.57	323.57	0.00
011-0000010077-00	1/29/2002	Final	438.50	438.50	0.00
011-0000010078-00	1/22/2002	Final	483.23	483.23	0.00
011-0000010079-00	2/13/2002	Final	0.00	0.00	0.00
011-0000010080-00	1/18/2002	Final	485.72	485.72	0.00
011-0000010083-00	2/9/2002	Final	225.78	225.78	0.00
011-0000010084-00	2/15/2002	Final	765.23	765.23	0.00
011-0000010085-00	2/11/2002	Final	0.00	0.00	0.00
011-0000010086-00	2/7/2002	Final	299.00	299.00	0.00
011-0000010087-00	2/10/2002	Final	110.00	110.00	0.00
011-0000010088-00	2/16/2002	Final	150.80	150.80	0.00
011-0000010089-00	1/13/2002	Final	0.00	0.00	0.00
011-0000010090-00	1/25/2002	Final	93.75	93.75	0.00

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Date Status	Incurred Total	Paid Total	Outstanding
'2002 Final	39.53	39.53	0.00
'2002 Final	29.83	29.83	0.00
'2002 Final	0.00	0.00	0.00
'2002 Final	2,344.63	2,344.63	0.00
2002 Final	218.00	218.00	0.00
002 Final	0.00	0.00	0.00
'2002 Final	0.00	0.00	0.00
002 Final	0.00	0.00	0.00
'2002 Final	0.00	0.00	0.00
002 Final	0.00	0.00	0.00
2002 Final	286.10	286.10	0.00
002 Final	0.00	0.00	0.00
2002 Final	0.00	0.00	0.00
2002 Final	103.00	103.00	0.00
2002 Final	72.80	72.80	0.00
2002 Final	481.47	481.47	0.00
2002 Final	0.00	0.00	0.00
002 Final	0.00	0.00	0.00
2002 Final	0.00	0.00	0.00
002 Final	0.00	0.00	0.00
2002 Final	0.00	0.00	0.00
002 Final	916.31	916.31	0.00
002 Final	0.00	0.00	0.00
2002 Final	0.00	0.00	0.00
2002 Final	0.00	0.00	0.00
002 Final	1,968.72	1,968.72	0.00
2002 Final	0.00	0.00	0.00
2002 Final	0.00	0.00	0.00
2002 Final	0.00	0.00	0.00
002 Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010139-00	3/5/2002	Final	0.00	0.00	0.00
011-0000010140-00	3/2/2002	Final	0.00	0.00	0.00
011-0000010141-00	3/8/2002	Final	400.00	400.00	0.00
011-0000010142-00	3/8/2002	Final	31.24	31.24	0.00
011-0000010143-00	3/9/2002	Final	918.71	918.71	0.00
011-0000010144-00	3/8/2002	Final	554.11	554.11	0.00
011-0000010145-00	3/8/2002	Final	517.71	517.71	0.00
011-0000010146-00	3/2/2002	Final	0.00	0.00	0.00
011-0000010147-00	3/8/2002	Final	0.00	0.00	0.00
011-0000010148-00	3/7/2002	Final	0.00	0.00	0.00
011-0000010149-00	3/8/2002	Final	268.23	268.23	0.00
011-0000010150-00	3/8/2002	Final	789.53	789.53	0.00
011-0000010151-00	3/8/2002	Final	0.00	0.00	0.00
011-0000010152-00	3/11/2002	Final	0.00	0.00	0.00
011-0000010153-00	3/8/2002	Final	176.95	176.95	0.00
011-0000010154-00	3/8/2002	Final	284.19	284.19	0.00
011-0000010155-00	3/10/2002	Final	75.00	75.00	0.00
011-0000010156-00	3/8/2002	Final	305.69	305.69	0.00
011-0000010157-00	3/8/2002	Final	459.45	459.45	0.00
011-0000010158-00	3/11/2002	Final	0.00	0.00	0.00
011-0000010159-00	3/8/2002	Final	2,319.86	2,319.86	0.00
011-0000010160-00	3/12/2002	Final	7,759.26	7,759.26	0.00
011-0000010161-00	3/8/2002	Final	22.91	22.91	0.00
011-0000010162-00	3/13/2002	Final	0.00	0.00	0.00
011-0000010163-00	3/8/2002	Final	862.74	862.74	0.00
011-0000010164-00	3/8/2002	Final	161.34	161.34	0.00
011-0000010165-00	3/8/2002	Final	602.79	602.79	0.00
011-0000010166-00	2/15/2002	Final	0.00	0.00	0.00
011-0000010167-00	3/13/2002	Final	0.00	0.00	0.00
011-0000010168-00	3/13/2002	Final	733.68	733.68	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010169-00	3/14/2002	Final	0.00	0.00	0.00
011-0000010170-00	3/13/2002	Final	0.00	0.00	0.00
011-0000010171-00	3/17/2002	Final	1,098.17	1,098.17	0.00
011-0000010172-00	3/17/2002	Final	100.00	100.00	0.00
011-0000010173-00	3/14/2002	Final	328.01	328.01	0.00
011-0000010175-00	3/8/2002	Final	1,816.80	1,816.80	0.00
011-0000010176-00	3/17/2002	Final	177.40	177.40	0.00
011-0000010177-00	3/16/2002	Final	1,164.06	1,164.06	0.00
011-0000010178-00	3/16/2002	Final	264.57	264.57	0.00
011-0000010179-00	3/13/2002	Final	80.29	80.29	0.00
011-0000010180-00	3/12/2002	Final	0.00	0.00	0.00
011-0000010181-00	3/19/2002	Final	327.37	327.37	0.00
011-0000010182-00	3/20/2002	Final	0.00	0.00	0.00
011-0000010183-00	3/19/2002	Final	0.00	0.00	0.00
011-0000010184-00	3/20/2002	Final	235.42	235.42	0.00
011-0000010186-00	3/17/2002	Final	0.00	0.00	0.00
011-0000010187-00	3/13/2002	Final	0.00	0.00	0.00
011-0000010188-00	3/12/2002	Final	0.00	0.00	0.00
011-0000010189-00	3/18/2002	Final	83.21	83.21	0.00
011-0000010191-00	3/8/2002	Final	792.63	792.63	0.00
011-0000010192-00	3/16/2002	Final	517.19	517.19	0.00
011-0000010193-00	3/21/2002	Final	0.00	0.00	0.00
011-0000010194-00	3/24/2002	Final	89.00	89.00	0.00
011-0000010195-00	3/8/2002	Final	1,166.46	1,166.46	0.00
011-0000010196-00	3/17/2002	Final	187.49	187.49	0.00
011-0000010197-00	3/17/2002	Final	94.09	94.09	0.00
011-0000010198-00	3/21/2002	Final	166.67	166.67	0.00
011-0000010200-00	3/26/2002	Final	489.77	489.77	0.00
011-0000010203-00	3/23/2002	Final	248.42	248.42	0.00
011-0000010204-00	3/28/2002	Final	0.00	0.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010205-00	2/24/2002	Final	834.60	834.60	0.00
011-0000010206-00	3/7/2002	Final	0.00	0.00	0.00
011-0000010207-00	2/25/2002	Final	0.00	0.00	0.00
011-0000010208-00	3/22/2002	Final	125.95	125.95	0.00
011-0000010209-00	3/29/2002	Final	1,519.08	1,519.08	0.00
011-0000010210-00	3/8/2002	Final	93.74	93.74	0.00
011-0000010211-00	2/17/2002	Final	201.45	201.45	0.00
011-0000010212-00	3/27/2002	Final	200.53	200.53	0.00
011-0000010213-00	3/29/2002	Final	0.00	0.00	0.00
011-0000010214-00	3/26/2002	Final	49.48	49.48	0.00
011-0000010216-00	3/30/2002	Final	739.90	739.90	0.00
011-0000010235-00	2/7/2002	Final	0.00	0.00	0.00
011-0000010243-00	3/30/2002	Final	135.00	135.00	0.00
011-0000010244-00	4/2/2002	Final	0.00	0.00	0.00
011-0000010245-00	2/26/2002	Final	0.00	0.00	0.00
011-0000010247-00	3/20/2002	Final	0.00	0.00	0.00
011-0000010248-00	3/9/2002	Final	163.54	163.54	0.00
011-0000010249-00	4/2/2002	Final	0.00	0.00	0.00
011-0000010250-00	3/15/2002	Final	0.00	0.00	0.00
011-0000010252-00	3/30/2002	Final	2,158.18	2,158.18	0.00
011-0000010253-00	4/6/2002	Final	243.61	243.61	0.00
011-0000010254-00	4/9/2002	Final	0.00	0.00	0.00
011-0000010256-00	3/29/2002	Final	434.89	434.89	0.00
011-0000010257-00	4/11/2002	Final	914.12	914.12	0.00
011-0000010258-00	3/27/2002	Final	0.00	0.00	0.00
011-0000010259-00	4/8/2002	Final	248.00	248.00	0.00
011-0000010260-00	4/11/2002	Final	120.00	120.00	0.00
011-0000010261-00	4/5/2002	Final	50.00	50.00	0.00
011-0000010268-00	3/1/2002	Final	0.00	0.00	0.00
011-0000010269-00	4/15/2002	Final	2,470.56	2,470.56	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010273-00	4/10/2002	Final	228.46	228.46	0.00
011-0000010274-00	4/15/2002	Final	11,204.88	11,204.88	0.00
011-0000010275-00	4/15/2002	Final	0.00	0.00	0.00
011-0000010276-00	3/28/2002	Final	0.00	0.00	0.00
011-0000010278-00	3/7/2002	Final	0.00	0.00	0.00
011-0000010279-00	4/15/2002	Final	0.00	0.00	0.00
011-0000010284-00	4/16/2002	Final	0.00	0.00	0.00
011-0000010285-00	4/1/2002	Final	650.00	650.00	0.00
011-0000010286-00	2/16/2002	Final	100.00	100.00	0.00
011-0000010287-00	3/4/2002	Final	132.50	132.50	0.00
011-0000010288-00	4/19/2002	Final	0.00	0.00	0.00
011-0000010289-00	4/21/2002	Final	72.92	72.92	0.00
011-0000010290-00	4/22/2002	Final	52.07	52.07	0.00
011-0000010291-00	4/22/2002	Final	545.63	545.63	0.00
011-0000010292-00	4/22/2002	Final	0.00	0.00	0.00
011-0000010293-00	4/15/2002	Final	0.00	0.00	0.00
011-0000010294-00	4/15/2002	Final	0.00	0.00	0.00
011-0000010295-00	4/22/2002	Final	0.00	0.00	0.00
011-0000010296-00	4/22/2002	Final	240.00	240.00	0.00
011-0000010297-00	4/22/2002	Final	0.00	0.00	0.00
011-0000010298-00	4/21/2002	Final	455.68	455.68	0.00
011-0000010299-00	4/25/2002	Final	206.79	206.79	0.00
011-0000010300-00	4/22/2002	Final	416.66	416.66	0.00
011-0000010302-00	4/29/2002	Final	1,411.72	1,411.72	0.00
011-0000010303-00	4/29/2002	Final	165.00	165.00	0.00
011-0000010304-00	4/29/2002	Reopened	25,000.00	0.00	25,000.00
011-0000010305-00	4/29/2002	Final	232.30	232.30	0.00
011-0000010306-00	3/15/2002	Final	0.00	0.00	0.00
011-0000010307-00	4/13/2002	Final	1,934.18	1,934.18	0.00
011-0000010310-00	2/15/2002	Final	0.00	0.00	0.00

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Loss Date	Status	Incurred Total	Paid Total	Outstanding
4/22/2002	Final	0.00	0.00	0.00
4/16/2002	Final	0.00	0.00	0.00
4/29/2002	Final	240.00	240.00	0.00
4/22/2002	Final	0.00	0.00	0.00
4/29/2002	Final	0.00	0.00	0.00
5/3/2002	Final	674.63	674.63	0.00
5/6/2002	Final	1,201.63	1,201.63	0.00
4/22/2002	Final	0.00	0.00	0.00
5/5/2002	Final	57.29	57.29	0.00
4/22/2002	Final	1,983.50	1,983.50	0.00
5/6/2002	Final	85.00	85.00	0.00
4/29/2002	Final	0.00	0.00	0.00
5/6/2002	Final	130.20	130.20	0.00
4/13/2002	Final	584.47	584.47	0.00
5/2/2002	Final	0.00	0.00	0.00
5/7/2002	Final	694.29	694.29	0.00
4/22/2002	Final	877.89	877.89	0.00
5/4/2002	Final	0.00	0.00	0.00
5/7/2002	Final	0.00	0.00	0.00
5/1/2002	Final	0.00	0.00	0.00
5/7/2002	Final	2,198.69	2,198.69	0.00
4/22/2002	Final	396.55	396.55	0.00
5/8/2002	Final	0.00	0.00	0.00
4/27/2002	Final	0.00	0.00	0.00
5/6/2002	Final	59.99	59.99	0.00
5/8/2002	Final	217.50	217.50	0.00
5/14/2002	Final	0.00	0.00	0.00
5/3/2002	Final	0.00	0.00	0.00
4/13/2002	Final	0.00	0.00	0.00
5/2/2002	Final	0.00	0.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010351-00	4/22/2002	Final	2,618.55	2,618.55	0.00
011-0000010352-00	5/10/2002	Final	0.00	0.00	0.00
011-0000010353-00	4/13/2002	Final	0.00	0.00	0.00
011-0000010354-00	5/12/2002	Final	0.00	0.00	0.00
011-0000010357-00	5/11/2002	Final	315.62	315.62	0.00
011-0000010358-00	5/10/2002	Final	0.00	0.00	0.00
011-0000010359-00	5/14/2002	Final	0.00	0.00	0.00
011-0000010360-00	5/10/2002	Final	0.00	0.00	0.00
011-0000010361-00	4/22/2002	Final	219.39	219.39	0.00
011-0000010362-00	5/14/2002	Final	0.00	0.00	0.00
011-0000010363-00	5/14/2002	Final	0.00	0.00	0.00
011-0000010364-00	5/7/2002	Final	2,050.00	2,050.00	0.00
011-0000010365-00	5/7/2002	Final	256.96	256.96	0.00
011-0000010366-00	1/21/2002	Final	3,414.80	3,414.80	0.00
011-0000010367-00	5/15/2002	Final	0.00	0.00	0.00
011-0000010368-00	5/15/2002	Final	120.00	120.00	0.00
011-0000010369-00	5/10/2002	Final	0.00	0.00	0.00
011-0000010370-00	5/13/2002	Final	0.00	0.00	0.00
011-0000010371-00	5/1/2002	Final	50.00	50.00	0.00
011-0000010372-00	4/22/2002	Final	799.48	799.48	0.00
011-0000010373-00	5/13/2002	Final	0.00	0.00	0.00
011-0000010374-00	5/13/2002	Final	75.00	75.00	0.00
011-0000010375-00	5/17/2002	Final	0.00	0.00	0.00
011-0000010376-00	5/17/2002	Final	0.00	0.00	0.00
011-0000010377-00	5/19/2002	Final	0.00	0.00	0.00
011-0000010378-00	5/12/2002	Final	0.00	0.00	0.00
011-0000010379-00	5/18/2002	Final	0.00	0.00	0.00
011-0000010380-00	4/27/2002	Final	377.42	377.42	0.00
011-0000010381-00	5/10/2002	Final	0.00	0.00	0.00
011-0000010382-00	5/16/2002	Final	951.04	951.04	0.00

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2002					
010385-00	5/7/2002	Final	168.38	168.38	0.00
010387-00	5/23/2002	Final	2,874.15	2,874.15	0.00
010388-00	5/18/2002	Final	653.64	653.64	0.00
010389-00	5/24/2002	Final	0.00	0.00	0.00
010390-00	5/24/2002	Final	0.00	0.00	0.00
010391-00	5/20/2002	Final	0.00	0.00	0.00
010392-00	5/22/2002	Final	268.14	268.14	0.00
010393-00	5/14/2002	Final	83.33	83.33	0.00
010394-00	5/27/2002	Final	275.00	275.00	0.00
010395-00	5/25/2002	Final	0.00	0.00	0.00
010398-00	5/23/2002	Final	1,498.76	1,498.76	0.00
010399-00	5/28/2002	Final	0.00	0.00	0.00
010400-00	5/28/2002	Final	0.00	0.00	0.00
010401-00	5/1/2002	Final	0.00	0.00	0.00
010402-00	5/8/2002	Final	0.00	0.00	0.00
010403-00	5/13/2002	Final	1,175.81	1,175.81	0.00
010404-00	5/28/2002	Final	430.00	430.00	0.00
010405-00	5/7/2002	Final	278.46	278.46	0.00
010407-00	5/13/2002	Final	0.00	0.00	0.00
010408-00	5/29/2002	Final	0.00	0.00	0.00
010409-00	5/10/2002	Final	0.00	0.00	0.00
010410-00	5/26/2002	Final	0.00	0.00	0.00
010411-00	5/29/2002	Final	0.00	0.00	0.00
010412-00	4/22/2002	Final	250.00	250.00	0.00
010413-00	5/15/2002	Final	0.00	0.00	0.00
010415-00	3/1/2002	Final	0.00	0.00	0.00
010416-00	5/31/2002	Final	0.00	0.00	0.00
010417-00	5/26/2002	Final	1,958.86	1,958.86	0.00
010418-00	5/23/2002	Final	2,476.24	2,476.24	0.00
010419-00	5/10/2002	Final	0.00	0.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000010420-00	6/1/2002	Final	0.00	0.00	0.00
011-0000010421-00	5/20/2002	Final	87.99	87.99	0.00
011-0000010422-00	5/28/2002	Final	245.00	245.00	0.00
011-0000010423-00	5/30/2002	Final	0.00	0.00	0.00
011-0000010426-00	5/25/2002	Final	558.40	558.40	0.00
011-0000010427-00	4/6/2002	Final	155.50	155.50	0.00
011-0000010428-00	5/29/2002	Final	0.00	0.00	0.00
011-0000010430-00	6/5/2002	Final	0.00	0.00	0.00
011-0000010432-00	6/6/2002	Final	0.00	0.00	0.00
011-0000010433-00	5/29/2002	Final	159.25	159.25	0.00
011-0000010434-00	6/2/2002	Final	691.00	691.00	0.00
011-0000010435-00	5/31/2002	Final	0.00	0.00	0.00
011-0000010436-00	5/7/2002	Final	0.00	0.00	0.00
011-0000010437-00	6/2/2002	Final	4,703.89	4,703.89	0.00
011-0000010438-00	5/7/2002	Final	0.00	0.00	0.00
011-0000010439-00	6/3/2002	Final	130.20	130.20	0.00
011-0000010440-00	6/6/2002	Final	240.00	240.00	0.00
011-0000010441-00	6/10/2002	Final	0.00	0.00	0.00
011-0000010442-00	6/2/2002	Final	0.00	0.00	0.00
011-0000010443-00	6/6/2002	Final	0.00	0.00	0.00
011-0000010444-00	6/8/2002	Final	0.00	0.00	0.00
011-0000010445-00	6/9/2002	Final	93.75	93.75	0.00
011-0000010446-00	6/13/2002	Final	0.00	0.00	0.00
011-0000010447-00	6/12/2002	Final	240.00	240.00	0.00
011-0000010450-00	6/14/2002	Final	0.00	0.00	0.00
011-0000010451-00	5/30/2002	Final	85.30	85.30	0.00
011-0000010452-00	6/15/2002	Final	0.00	0.00	0.00
011-0000010453-00	6/2/2002	Final	613.50	613.50	0.00
011-0000010454-00	5/29/2002	Final	2,047.75	2,047.75	0.00
011-0000010455-00	6/2/2002	Final	0.00	0.00	0.00

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Loss Date: 2002					
011-0000010456-00	5/2/2002	Final	0.00	0.00	0.00
011-0000010457-00	6/4/2002	Final	562.65	562.65	0.00
011-0000010458-00	6/1/2002	Final	0.00	0.00	0.00
011-0000010459-00	6/7/2002	Final	871.54	871.54	0.00
011-0000010460-00	6/6/2002	Final	0.00	0.00	0.00
011-0000010461-00	6/14/2002	Final	1,112.50	1,112.50	0.00
011-0000010463-00	6/16/2002	Final	848.49	848.49	0.00
011-0000010464-00	6/15/2002	Final	149.99	149.99	0.00
011-0000010465-00	6/15/2002	Final	185.38	185.38	0.00
011-0000010466-00	5/21/2002	Final	0.00	0.00	0.00
011-0000010467-00	6/10/2002	Final	210.00	210.00	0.00
011-0000010468-00	5/21/2002	Final	0.00	0.00	0.00
011-0000010469-00	6/8/2002	Final	0.00	0.00	0.00
011-0000010474-00	6/21/2002	Final	0.00	0.00	0.00
011-0000010475-00	6/21/2002	Final	125.00	125.00	0.00
011-0000010476-00	6/21/2002	Final	12,159.89	12,159.89	0.00
011-0000010477-00	6/24/2002	Final	0.00	0.00	0.00
011-0000010478-00	5/10/2002	Final	0.00	0.00	0.00
011-0000010479-00	3/4/2002	Final	0.00	0.00	0.00
011-0000010481-00	6/22/2002	Final	125.36	125.36	0.00
011-0000010482-00	6/23/2002	Final	0.00	0.00	0.00
011-0000010484-00	6/23/2002	Final	0.00	0.00	0.00
011-0000010486-00	6/2/2002	Final	0.00	0.00	0.00
011-0000010487-00	6/7/2002	Final	0.00	0.00	0.00
011-0000010488-00	6/23/2002	Final	0.00	0.00	0.00
011-0000010489-00	6/25/2002	Final	241.66	241.66	0.00
011-0000010490-00	3/31/2002	Final	0.00	0.00	0.00
011-0000010491-00	6/17/2002	Final	274.85	274.85	0.00
011-0000010492-00	6/26/2002	Final	525.64	525.64	0.00
011-0000010493-00	6/21/2002	Final	0.00	0.00	0.00

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ı Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Date: 2002					
)000010494-00	5/31/2002	Final	0.00	0.00	0.00
)000010495-00	6/25/2002	Final	322.91	322.91	0.00
)000010496-00	6/23/2002	Final	0.00	0.00	0.00
)000010497-00	6/27/2002	Final	271.87	271.87	0.00
)000010498-00	6/22/2002	Final	290.00	290.00	0.00
)000010499-00	6/2/2002	Final	0.00	0.00	0.00
)000010500-00	6/30/2002	Final	0.00	0.00	0.00
)000010501-00	6/21/2002	Final	265.62	265.62	0.00
)000010502-00	6/2/2002	Final	15.38	15.38	0.00
)000010503-00	5/31/2002	Final	229.16	229.16	0.00
)000010507-00	6/7/2002	Final	850.39	850.39	0.00
)000010509-00	6/22/2002	Final	301.20	301.20	0.00
)000010510-00	6/2/2002	Final	0.00	0.00	0.00
)000010511-00	6/2/2002	Final	0.00	0.00	0.00
)000010512-00	6/2/2002	Final	0.00	0.00	0.00
)000010513-00	6/2/2002	Final	281.24	281.24	0.00
)000010514-00	6/2/2002	Final	0.00	0.00	0.00
)000010515-00	6/2/2002	Final	314.31	314.31	0.00
)000010516-00	6/2/2002	Final	300.69	300.69	0.00
)000010517-00	6/2/2002	Final	209.75	209.75	0.00
)000010518-00	6/2/2002	Final	300.00	300.00	0.00
)000010519-00	6/2/2002	Final	0.00	0.00	0.00
)000010520-00	6/2/2002	Final	0.00	0.00	0.00
)000010521-00	6/2/2002	Final	0.00	0.00	0.00
)000010522-00	6/2/2002	Final	50.00	50.00	0.00
)000010523-00	6/25/2002	Final	239.58	239.58	0.00
)000010524-00	6/26/2002	Final	0.00	0.00	0.00
)000010525-00	6/16/2002	Final	281.24	281.24	0.00
)000010526-00	6/20/2002	Final	157.81	157.81	0.00
)000010528-00	6/2/2002	Final	0.00	0.00	0.00

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Loss Date: 2002					
011-0000010529-00	6/24/2002	Final	0.00	0.00	0.00
011-0000010530-00	6/16/2002	Final	162.76	162.76	0.00
011-0000010531-00	7/3/2002	Final	4.75	4.75	0.00
011-0000010532-00	7/7/2002	Final	81.12	81.12	0.00
011-0000010536-00	6/16/2002	Final	0.00	0.00	0.00
011-0000010537-00	6/10/2002	Final	0.00	0.00	0.00
011-0000010540-00	6/9/2002	Final	222.49	222.49	0.00
011-0000010542-00	2/1/2002	Final	0.00	0.00	0.00
011-0000010543-00	6/16/2002	Final	0.00	0.00	0.00
011-0000010545-00	6/2/2002	Final	0.00	0.00	0.00
011-0000010546-00	7/3/2002	Final	0.00	0.00	0.00
011-0000010547-00	7/13/2002	Final	468.00	468.00	0.00
011-0000010549-00	7/15/2002	Final	98.45	98.45	0.00
011-0000010550-00	6/22/2002	Final	5,632.31	5,632.31	0.00
011-0000010552-00	7/16/2002	Final	0.00	0.00	0.00
011-0000010561-00	6/24/2002	Final	0.00	0.00	0.00
011-0000010565-00	7/3/2002	Final	0.00	0.00	0.00
011-0000010566-00	7/16/2002	Final	98.95	98.95	0.00
011-0000010567-00	7/16/2002	Final	0.00	0.00	0.00
011-0000010568-00	7/16/2002	Final	103.90	103.90	0.00
011-0000010570-00	7/12/2002	Final	0.00	0.00	0.00
011-0000010571-00	7/16/2002	Final	0.00	0.00	0.00
011-0000010576-00	7/19/2002	Final	0.00	0.00	0.00
011-0000010577-00	7/19/2002	Final	2,806.90	2,806.90	0.00
011-0000010581-00	7/11/2002	Final	1,445.41	1,445.41	0.00
011-0000010582-00	7/21/2002	Final	300.92	300.92	0.00
011-0000010583-00	7/16/2002	Final	0.00	0.00	0.00
011-0000010585-00	7/6/2002	Final	0.00	0.00	0.00
011-0000010586-00	6/7/2002	Final	300.03	300.03	0.00
011-0000010587-00	6/3/2002	Final	1,122.77	1,122.77	0.00

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Loss Date: 2002					
011-0000010588-00	1/1/2002	Final	0.00	0.00	0.00
011-0000010591-00	7/26/2002	Final	0.00	0.00	0.00
011-0000010592-00	7/23/2002	Final	0.00	0.00	0.00
011-0000010593-00	6/25/2002	Final	390.63	390.63	0.00
011-0000010594-00	6/15/2002	Final	729.16	729.16	0.00
011-0000010595-00	6/15/2002	Final	3,185.57	3,185.57	0.00
011-0000010596-00	6/28/2002	Final	598.00	598.00	0.00
011-0000010597-00	7/16/2002	Final	3,784.35	3,784.35	0.00
011-0000010598-00	7/29/2002	Final	0.00	0.00	0.00
011-0000010599-00	7/29/2002	Final	67.70	67.70	0.00
011-0000010600-00	7/29/2002	Final	0.00	0.00	0.00
011-0000010601-00	7/29/2002	Final	0.00	0.00	0.00
011-0000010602-00	7/30/2002	Final	13,243.09	13,243.09	0.00
011-0000010603-00	7/31/2002	Final	0.00	0.00	0.00
011-0000010604-00	7/26/2002	Final	0.00	0.00	0.00
011-0000010606-00	6/7/2002	Final	3.00	3.00	0.00
011-0000010609-00	8/1/2002	Final	0.00	0.00	0.00
011-0000010610-00	8/1/2002	Final	0.00	0.00	0.00
011-0000010611-00	7/29/2002	Final	283.75	283.75	0.00
011-0000010612-00	7/31/2002	Final	0.00	0.00	0.00
011-0000010615-00	7/29/2002	Final	181.87	181.87	0.00
011-0000010616-00	7/19/2002	Final	800.00	800.00	0.00
011-0000010617-00	6/29/2002	Final	110.43	110.43	0.00
011-0000010618-00	8/5/2002	Final	126.86	126.86	0.00
011-0000010619-00	8/5/2002	Final	0.00	0.00	0.00
011-0000010620-00	8/2/2002	Final	9,495.19	9,495.19	0.00
011-0000010621-00	8/6/2002	Final	95.68	95.68	0.00
011-0000010622-00	8/2/2002	Final	62.50	62.50	0.00
011-0000010623-00	7/29/2002	Final	95.81	95.81	0.00
011-0000010635-00	8/14/2002	Final	476.69	476.69	0.00

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Loss Date: 2002					
011-0000010636-00	8/18/2002	Final	0.00	0.00	0.00
011-0000010637-00	8/18/2002	Final	0.00	0.00	0.00
011-0000010638-00	8/13/2002	Final	0.00	0.00	0.00
011-0000010639-00	8/18/2002	Final	75.00	75.00	0.00
011-0000010640-00	8/12/2002	Final	0.00	0.00	0.00
011-0000010641-00	8/18/2002	Final	61.73	61.73	0.00
011-0000010642-00	8/16/2002	Final	0.00	0.00	0.00
011-0000010643-00	8/4/2002	Final	0.00	0.00	0.00
011-0000010644-00	5/1/2002	Final	0.00	0.00	0.00
011-0000010650-00	8/12/2002	Final	0.00	0.00	0.00
011-0000010651-00	8/20/2002	Final	0.00	0.00	0.00
011-0000010652-00	8/17/2002	Final	0.00	0.00	0.00
011-0000010654-00	3/18/2002	Final	940.48	940.48	0.00
011-0000010656-00	8/18/2002	Final	1,098.13	1,098.13	0.00
011-0000010657-00	8/6/2002	Final	0.00	0.00	0.00
011-0000010658-00	8/21/2002	Final	250.00	250.00	0.00
011-0000010659-00	8/2/2002	Final	121.87	121.87	0.00
011-0000010660-00	8/5/2002	Final	435.07	435.07	0.00
011-0000010661-00	8/22/2002	Final	340.00	340.00	0.00
011-0000010662-00	8/20/2002	Final	123.96	123.96	0.00
011-0000010663-00	8/21/2002	Final	0.00	0.00	0.00
011-0000010664-00	8/26/2002	Final	0.00	0.00	0.00
011-0000010667-00	8/23/2002	Final	240.00	240.00	0.00
011-0000010668-00	5/7/2002	Final	0.00	0.00	0.00
011-0000010669-00	8/25/2002	Final	0.00	0.00	0.00
011-0000010671-00	5/6/2002	Final	0.00	0.00	0.00
011-0000010673-00	8/25/2002	Final	75.00	75.00	0.00
011-0000010674-00	8/7/2002	Final	0.00	0.00	0.00
011-0000010675-00	8/7/2002	Final	0.00	0.00	0.00
011-0000010676-00	8/7/2002	Final	0.00	0.00	0.00

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Loss Date: 2002					
011-0000010677-00	8/7/2002	Final	0.00	0.00	0.00
011-0000010678-00	8/25/2002	Final	0.00	0.00	0.00
011-0000010679-00	8/30/2002	Final	0.00	0.00	0.00
011-0000010680-00	7/29/2002	Final	0.00	0.00	0.00
011-0000010681-00	8/18/2002	Final	141.98	141.98	0.00
011-0000010682-00	8/1/2002	Final	0.00	0.00	0.00
011-0000010683-00	7/15/2002	Final	458.00	458.00	0.00
011-0000010684-00	8/26/2002	Final	0.00	0.00	0.00
011-0000010686-00	8/12/2002	Final	500.00	500.00	0.00
011-0000010687-00	8/11/2002	Final	0.00	0.00	0.00
011-0000010688-00	9/7/2002	Final	0.00	0.00	0.00
011-0000010689-00	9/6/2002	Final	0.00	0.00	0.00
011-0000010690-00	8/28/2002	Final	2,892.94	2,892.94	0.00
011-0000010692-00	9/7/2002	Final	395.85	395.85	0.00
011-0000010694-00	9/11/2002	Final	468.00	468.00	0.00
011-0000010695-00	9/13/2002	Final	0.00	0.00	0.00
011-0000010696-00	9/10/2002	Final	52.08	52.08	0.00
011-0000010697-00	4/13/2002	Final	0.00	0.00	0.00
011-0000010698-00	9/13/2002	Final	321.25	321.25	0.00
011-0000010699-00	9/12/2002	Final	0.00	0.00	0.00
011-0000010700-00	9/11/2002	Final	50.00	50.00	0.00
011-0000010701-00	7/3/2002	Final	0.00	0.00	0.00
011-0000010702-00	8/23/2002	Final	527.11	527.11	0.00
011-0000010703-00	9/16/2002	Final	360.00	360.00	0.00
011-0000010705-00	9/16/2002	Final	0.00	0.00	0.00
011-0000010706-00	9/16/2002	Final	0.00	0.00	0.00
011-0000010707-00	9/16/2002	Final	0.00	0.00	0.00
011-0000010708-00	8/7/2002	Open	10,000.00	0.00	10,000.00
011-0000010709-00	9/16/2002	Final	0.00	0.00	0.00
011-0000010710-00	9/16/2002	Final	0.00	0.00	0.00

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Date: 2002				
00010711-00	9/16/2002 Final	0.00	0.00	0.00
00010712-00	9/16/2002 Final	372.03	372.03	0.00
00010713-00	9/12/2002 Final	0.00	0.00	0.00
00010714-00	9/20/2002 Final	0.00	0.00	0.00
00010715-00	9/19/2002 Final	0.00	0.00	0.00
00010716-00	9/14/2002 Final	0.00	0.00	0.00
00010717-00	9/17/2002 Final	85.22	85.22	0.00
00010718-00	9/18/2002 Final	0.00	0.00	0.00
00010719-00	9/20/2002 Final	0.00	0.00	0.00
00010720-00	9/20/2002 Final	0.00	0.00	0.00
00010721-00	9/20/2002 Final	0.00	0.00	0.00
00010722-00	9/20/2002 Final	0.00	0.00	0.00
00010723-00	9/20/2002 Final	0.00	0.00	0.00
00010724-00	9/20/2002 Final	0.00	0.00	0.00
00010725-00	9/20/2002 Final	0.00	0.00	0.00
00010726-00	9/16/2002 Final	0.00	0.00	0.00
00010727-00	9/20/2002 Final	0.00	0.00	0.00
00010728-00	9/20/2002 Final	0.00	0.00	0.00
00010729-00	9/19/2002 Final	175.09	175.09	0.00
00010730-00	9/16/2002 Final	0.00	0.00	0.00
00010731-00	9/20/2002 Final	0.00	0.00	0.00
00010732-00	9/26/2002 Final	100.00	100.00	0.00
00010733-00	9/19/2002 Final	1,747.76	1,747.76	0.00
00010734-00	9/26/2002 Final	0.00	0.00	0.00
00010735-00	9/29/2002 Final	0.00	0.00	0.00
00010736-00	8/30/2002 Final	2,073.86	2,073.86	0.00
00010738-00	9/12/2002 Final	190.27	190.27	0.00
00010739-00	9/17/2002 Final	0.00	0.00	0.00
00010740-00	9/21/2002 Final	0.00	0.00	0.00
00010743-00	9/27/2002 Final	0.00	0.00	0.00

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Loss Date: 2002					
011-0000010744-00	9/26/2002	Final	0.00	0.00	0.00
011-0000010745-00	9/20/2002	Final	0.00	0.00	0.00
011-0000010746-00	9/16/2002	Final	0.00	0.00	0.00
011-0000010747-00	10/3/2002	Final	287.80	287.80	0.00
011-0000010748-00	10/3/2002	Final	50.00	50.00	0.00
011-0000010749-00	9/4/2002	Final	514.58	514.58	0.00
011-0000010750-00	9/16/2002	Final	0.00	0.00	0.00
011-0000010751-00	6/13/2002	Final	0.00	0.00	0.00
011-0000010752-00	10/2/2002	Final	0.00	0.00	0.00
011-0000010755-00	9/27/2002	Final	0.00	0.00	0.00
011-0000010756-00	10/4/2002	Final	1,874.57	1,874.57	0.00
011-0000010757-00	9/30/2002	Final	0.00	0.00	0.00
011-0000010758-00	9/10/2002	Final	0.00	0.00	0.00
011-0000010760-00	10/11/2002	Final	232.00	232.00	0.00
011-0000010761-00	10/11/2002	Final	113.36	113.36	0.00
011-0000010763-00	9/25/2002	Final	0.00	0.00	0.00
011-0000010764-00	10/10/2002	Final	0.00	0.00	0.00
011-0000010765-00	9/21/2002	Final	0.00	0.00	0.00
011-0000010766-00	10/10/2002	Final	0.00	0.00	0.00
011-0000010767-00	10/15/2002	Final	0.00	0.00	0.00
011-0000010768-00	10/15/2002	Final	0.00	0.00	0.00
011-0000010769-00	9/16/2002	Final	345.65	345.65	0.00
011-0000010770-00	10/14/2002	Final	0.00	0.00	0.00
011-0000010771-00	9/16/2002	Final	285.32	285.32	0.00
011-0000010772-00	9/14/2002	Final	0.00	0.00	0.00
011-0000010773-00	10/15/2002	Final	160.00	160.00	0.00
011-0000010774-00	10/8/2002	Final	185.50	185.50	0.00
011-0000010775-00	10/16/2002	Final	0.00	0.00	0.00
011-0000010776-00	9/16/2002	Final	110.98	110.98	0.00
011-0000010777-00	10/9/2002	Final	295.84	295.84	0.00

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Loss Date: 2002				
011-0000010788-00	10/17/2002 Final	200.00	200.00	0.00
011-0000010789-00	8/1/2002 Final	0.00	0.00	0.00
011-0000010790-00	9/23/2002 Final	724.16	724.16	0.00
011-0000010791-00	10/15/2002 Final	0.00	0.00	0.00
011-0000010792-00	10/13/2002 Final	140.00	140.00	0.00
011-0000010793-00	9/14/2002 Final	274.05	274.05	0.00
011-0000010794-00	10/15/2002 Final	0.00	0.00	0.00
011-0000010795-00	10/20/2002 Final	1,302.73	1,302.73	0.00
011-0000010796-00	10/20/2002 Final	1,044.79	1,044.79	0.00
011-0000010797-00	10/20/2002 Final	690.00	690.00	0.00
011-0000010799-00	10/14/2002 Final	0.00	0.00	0.00
011-0000010800-00	10/25/2002 Final	0.00	0.00	0.00
011-0000010801-00	10/20/2002 Final	440.55	440.55	0.00
011-0000010802-00	10/24/2002 Final	143.63	143.63	0.00
011-0000010803-00	10/20/2002 Final	66.64	66.64	0.00
011-0000010804-00	9/26/2002 Final	0.00	0.00	0.00
011-0000010805-00	10/26/2002 Final	53,506.07	53,506.07	0.00
011-0000010806-00	9/16/2002 Final	0.00	0.00	0.00
011-0000010807-00	10/17/2002 Final	0.00	0.00	0.00
011-0000010808-00	10/20/2002 Final	0.00	0.00	0.00
011-0000010809-00	10/29/2002 Final	0.00	0.00	0.00
011-0000010810-00	9/16/2002 Final	0.00	0.00	0.00
011-0000010811-00	10/5/2002 Final	687.50	687.50	0.00
011-0000010813-00	10/1/2002 Final	0.00	0.00	0.00
011-0000010814-00	10/31/2002 Final	0.00	0.00	0.00
011-0000010815-00	4/1/2002 Final	0.00	0.00	0.00
011-0000010816-00	10/30/2002 Final	0.00	0.00	0.00
011-0000010817-00	10/21/2002 Final	0.00	0.00	0.00
011-0000010818-00	9/16/2002 Final	0.00	0.00	0.00
011-0000010819-00	11/5/2002 Final	0.00	0.00	0.00

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002				
011-0000010820-00	11/5/2002 Final	0.00	0.00	0.00
011-0000010821-00	11/4/2002 Final	0.00	0.00	0.00
011-0000010822-00	10/11/2002 Final	628.66	628.66	0.00
011-0000010823-00	11/4/2002 Final	240.00	240.00	0.00
011-0000010825-00	11/5/2002 Final	0.00	0.00	0.00
011-0000010827-00	10/25/2002 Final	7,053.50	7,053.50	0.00
011-0000010828-00	10/30/2002 Final	771.98	771.98	0.00
011-0000010829-00	10/20/2002 Final	889.35	889.35	0.00
011-0000010830-00	11/5/2002 Final	21.84	21.84	0.00
011-0000010832-00	9/26/2002 Final	0.00	0.00	0.00
011-0000010833-00	11/7/2002 Final	0.00	0.00	0.00
011-0000010834-00	10/18/2002 Final	329.08	329.08	0.00
011-0000010835-00	10/20/2002 Final	0.00	0.00	0.00
011-0000010836-00	11/9/2002 Final	8,272.35	8,272.35	0.00
011-0000010837-00	11/11/2002 Final	617.97	617.97	0.00
011-0000010839-00	11/5/2002 Final	648.73	648.73	0.00
011-0000010840-00	11/8/2002 Final	0.00	0.00	0.00
011-0000010841-00	11/4/2002 Final	1,010.36	1,010.36	0.00
011-0000010842-00	11/10/2002 Final	0.00	0.00	0.00
011-0000010844-00	9/7/2002 Final	307.29	307.29	0.00
011-0000010845-00	11/7/2002 Final	0.00	0.00	0.00
011-0000010846-00	11/15/2002 Final	0.00	0.00	0.00
011-0000010847-00	11/16/2002 Final	0.00	0.00	0.00
011-0000010848-00	11/16/2002 Final	0.00	0.00	0.00
011-0000010849-00	10/26/2002 Final	0.00	0.00	0.00
011-0000010850-00	11/16/2002 Final	0.00	0.00	0.00
011-0000010851-00	11/11/2002 Final	0.00	0.00	0.00
011-0000010852-00	10/16/2002 Final	0.00	0.00	0.00
011-0000010853-00	11/5/2002 Final	140.62	140.62	0.00
011-0000010854-00	11/12/2002 Final	1,056.50	1,056.50	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002				
011-0000010855-00	11/8/2002 Final	159.36	159.36	0.00
011-0000010856-00	11/15/2002 Final	0.00	0.00	0.00
011-0000010857-00	10/26/2002 Final	0.00	0.00	0.00
011-0000010858-00	11/19/2002 Final	268.56	268.56	0.00
011-0000010860-00	11/8/2002 Final	210.00	210.00	0.00
011-0000010861-00	11/21/2002 Final	0.00	0.00	0.00
011-0000010862-00	11/21/2002 Final	0.00	0.00	0.00
011-0000010863-00	11/25/2002 Final	0.00	0.00	0.00
011-0000010865-00	11/25/2002 Final	572.00	572.00	0.00
011-0000010867-00	8/14/2002 Final	0.00	0.00	0.00
011-0000010868-00	11/12/2002 Final	78.11	78.11	0.00
011-0000010869-00	11/26/2002 Final	0.00	0.00	0.00
011-0000010870-00	11/26/2002 Final	0.00	0.00	0.00
011-0000010871-00	11/21/2002 Final	0.00	0.00	0.00
011-0000010872-00	11/26/2002 Final	0.00	0.00	0.00
011-0000010873-00	11/5/2002 Final	0.00	0.00	0.00
011-0000010874-00	12/1/2002 Final	0.00	0.00	0.00
011-0000010875-00	11/26/2002 Final	0.00	0.00	0.00
011-0000010876-00	11/30/2002 Final	0.00	0.00	0.00
011-0000010877-00	11/25/2002 Final	572.00	572.00	0.00
011-0000010878-00	11/7/2002 Final	0.00	0.00	0.00
011-0000010879-00	12/2/2002 Final	0.00	0.00	0.00
011-0000010880-00	11/8/2002 Final	78.12	78.12	0.00
011-0000010881-00	12/2/2002 Final	0.00	0.00	0.00
011-0000010882-00	12/2/2002 Final	0.00	0.00	0.00
011-0000010883-00	10/24/2002 Final	0.00	0.00	0.00
011-0000010884-00	11/28/2002 Final	63.80	63.80	0.00
011-0000010885-00	11/4/2002 Final	0.00	0.00	0.00
011-0000010886-00	12/4/2002 Final	240.00	240.00	0.00
011-0000010887-00	12/8/2002 Final	0.00	0.00	0.00

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002				
011-0000010888-00	12/4/2002 Final	4,271.71	4,271.71	0.00
011-0000010889-00	7/27/2002 Final	0.00	0.00	0.00
011-0000010890-00	10/29/200:Final	0.00	0.00	0.00
011-0000010891-00	11/27/200:Final	0.00	0.00	0.00
011-0000010892-00	11/9/2002 Final	62.49	62.49	0.00
011-0000010893-00	11/29/200:Final	414.59	414.59	0.00
011-0000010894-00	12/6/2002 Final	386.76	386.76	0.00
011-0000010895-00	12/5/2002 Final	328.40	328.40	0.00
011-0000010897-00	11/26/200:Final	0.00	0.00	0.00
011-0000010898-00	11/8/2002 Final	0.00	0.00	0.00
011-0000010899-00	12/7/2002 Final	0.00	0.00	0.00
011-0000010908-00	11/5/2002 Final	0.00	0.00	0.00
011-0000010909-00	12/14/200:Final	93.75	93.75	0.00
011-0000010910-00	12/7/2002 Final	0.00	0.00	0.00
011-0000010911-00	12/16/200:Final	0.00	0.00	0.00
011-0000010914-00	12/7/2002 Final	0.00	0.00	0.00
011-0000010915-00	12/19/200:Final	0.00	0.00	0.00
011-0000010916-00	12/19/200:Final	0.00	0.00	0.00
011-0000010917-00	12/19/200:Final	0.00	0.00	0.00
011-0000010918-00	12/19/200:Final	0.00	0.00	0.00
011-0000010919-00	12/19/200:Final	0.00	0.00	0.00
011-0000010920-00	12/19/200:Final	0.00	0.00	0.00
011-0000010921-00	12/19/200:Final	0.00	0.00	0.00
011-0000010922-00	12/19/200:Final	0.00	0.00	0.00
011-0000010923-00	12/19/200:Final	0.00	0.00	0.00
011-0000010924-00	12/19/200:Final	0.00	0.00	0.00
011-0000010926-00	12/19/200:Final	0.00	0.00	0.00
011-0000010927-00	12/19/200:Final	0.00	0.00	0.00
011-0000010928-00	12/6/2002 Final	0.00	0.00	0.00
011-0000010929-00	12/22/200:Final	0.00	0.00	0.00

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ss Date Status	Incurred Total	Paid Total	Outstanding
/12/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/22/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/22/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/22/200:Final	194.79	194.79	0.00
/19/200:Final	0.00	0.00	0.00
/24/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/17/200:Final	0.00	0.00	0.00
/12/200:Final	206.30	206.30	0.00
/23/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/19/200:Final	0.00	0.00	0.00
/20/200:Final	120.00	120.00	0.00
/27/200:Final	120.00	120.00	0.00
/26/200:Final	60.69	60.69	0.00
/19/200:Final	0.00	0.00	0.00

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Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
)ate: 2002					
)00010966-00	12/27/200	Final	0.00	0.00	0.00
)00010969-00	12/31/200	Final	585.88	585.88	0.00
)00010970-00	12/12/200	Final	77.14	77.14	0.00
)00010971-00	12/25/200	Final	0.00	0.00	0.00
)00010972-00	12/26/200	Final	1,458.38	1,458.38	0.00
)00010973-00	12/19/200	Final	0.00	0.00	0.00
)00010974-00	12/12/200	Final	531.25	531.25	0.00
)00010979-00	12/23/200	Final	71.88	71.88	0.00
)00010980-00	12/19/200	Final	0.00	0.00	0.00
)00010981-00	10/31/200	Final	2,831.23	2,831.23	0.00
)00010982-00	12/24/200	Final	0.00	0.00	0.00
)00010983-00	12/12/200	Final	0.00	0.00	0.00
)00010989-00	12/22/200	Final	0.00	0.00	0.00
)00010990-00	12/19/200	Final	0.00	0.00	0.00
)00010991-00	12/30/200	Final	240.00	240.00	0.00
)00010993-00	12/19/200	Final	0.00	0.00	0.00
)00010994-00	10/21/200	Final	496.90	496.90	0.00
)00010996-00	12/19/200	Final	0.00	0.00	0.00
)00011000-00	12/22/200	Final	60.00	60.00	0.00
)00011002-00	11/24/200	Final	0.00	0.00	0.00
)00011003-00	11/27/200	Final	120.90	120.90	0.00
)00011005-00	12/17/200	Final	0.00	0.00	0.00
)00011008-00	12/19/200	Final	0.00	0.00	0.00
)00011011-00	12/12/200	Final	237.69	237.69	0.00
)00011012-00	12/12/200	Final	0.00	0.00	0.00
)00011013-00	12/19/200	Final	0.00	0.00	0.00
)00011014-00	12/19/200	Final	0.00	0.00	0.00
)00011018-00	12/19/200	Final	0.00	0.00	0.00
)00011023-00	12/12/200	Final	0.00	0.00	0.00
)00011028-00	12/19/200	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002				
011-0000011035-00	12/17/200:Reopened	50,500.00	0.00	50,500.00
011-0000011045-00	12/23/200:Final	281.48	281.48	0.00
011-0000011046-00	10/24/200:Final	1,111.62	1,111.62	0.00
011-0000011050-00	12/19/200:Final	0.00	0.00	0.00
011-0000011059-00	12/19/200:Final	0.00	0.00	0.00
011-0000011060-00	12/19/200:Final	0.00	0.00	0.00
011-0000011061-00	12/19/200:Final	0.00	0.00	0.00
011-0000011062-00	12/12/200:Final	0.00	0.00	0.00
011-0000011076-00	1/22/2002 Final	318.75	318.75	0.00
011-0000011077-00	12/16/200:Final	0.00	0.00	0.00
011-0000011081-00	12/25/200:Final	0.00	0.00	0.00
011-0000011088-00	12/19/200:Final	0.00	0.00	0.00
011-0000011093-00	12/19/200:Final	0.00	0.00	0.00
011-0000011094-00	12/19/200:Final	0.00	0.00	0.00
011-0000011097-00	3/22/2002 Final	2,902.55	2,902.55	0.00
011-0000011117-00	12/22/200:Final	638.22	638.22	0.00
011-0000011148-00	12/19/200:Final	923.95	923.95	0.00
011-0000011152-00	12/3/2002 Final	121.87	121.87	0.00
011-0000011168-00	12/19/200:Final	0.00	0.00	0.00
011-0000011192-00	12/2/2002 Final	0.00	0.00	0.00
011-0000011226-00	11/19/200:Final	0.00	0.00	0.00
011-0000011243-00	12/22/200:Final	0.00	0.00	0.00
011-0000011279-00	12/17/200:Final	0.00	0.00	0.00
011-0000011378-00	12/22/200:Final	0.00	0.00	0.00
011-0000011414-00	10/17/200:Final	0.00	0.00	0.00
011-0000011463-00	10/26/200:Final	0.00	0.00	0.00
011-0000011481-00	12/22/200:Final	4,187.11	4,187.11	0.00
011-0000011738-00	8/4/2002 Final	0.00	0.00	0.00
011-0000011753-00	9/7/2002 Final	105.61	105.61	0.00
011-0000012885-00	9/10/2002 Final	0.00	0.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2002					
011-0000013021-00	1/4/2002	Final	382.06	382.06	0.00
Total By Loss Date:				**811 Claims**	
			412,043.98	**326,543.98**	**85,500.00**

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000010976-00	1/3/2003	Final	0.00	0.00	0.00
011-0000010984-00	1/4/2003	Final	0.00	0.00	0.00
011-0000010985-00	1/4/2003	Final	0.00	0.00	0.00
011-0000010986-00	1/1/2003	Final	0.00	0.00	0.00
011-0000010992-00	1/7/2003	Final	240.00	240.00	0.00
011-0000010995-00	1/4/2003	Final	0.00	0.00	0.00
011-0000010998-00	1/9/2003	Final	0.00	0.00	0.00
011-0000010999-00	1/4/2003	Final	485.68	485.68	0.00
011-0000011001-00	1/9/2003	Final	600.00	600.00	0.00
011-0000011006-00	1/9/2003	Final	338.29	338.29	0.00
011-0000011007-00	1/9/2003	Final	0.00	0.00	0.00
011-0000011009-00	1/13/2003	Final	0.00	0.00	0.00
011-0000011010-00	1/10/2003	Final	0.00	0.00	0.00
011-0000011015-00	1/12/2003	Final	0.00	0.00	0.00
011-0000011019-00	1/13/2003	Final	121.00	121.00	0.00
011-0000011020-00	1/14/2003	Final	0.00	0.00	0.00
011-0000011022-00	1/15/2003	Final	1,200.00	1,200.00	0.00
011-0000011024-00	1/5/2003	Final	242.22	242.22	0.00
011-0000011025-00	1/4/2003	Final	0.00	0.00	0.00
011-0000011026-00	1/14/2003	Final	0.00	0.00	0.00
011-0000011027-00	1/8/2003	Final	1,298.59	1,298.59	0.00
011-0000011029-00	1/15/2003	Final	263.70	263.70	0.00
011-0000011030-00	1/15/2003	Final	142.99	142.99	0.00
011-0000011031-00	1/15/2003	Final	1,499.08	1,499.08	0.00
011-0000011032-00	1/15/2003	Final	1,344.72	1,344.72	0.00
011-0000011033-00	1/15/2003	Final	1,596.09	1,596.09	0.00
011-0000011034-00	1/15/2003	Final	1,760.76	1,760.76	0.00
011-0000011036-00	1/15/2003	Final	1,016.50	1,016.50	0.00
011-0000011037-00	1/15/2003	Final	769.99	769.99	0.00
011-0000011038-00	1/15/2003	Final	1,703.32	1,703.32	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011039-00	1/6/2003	Final	260.00	260.00	0.00
011-0000011040-00	1/15/2003	Final	1,023.35	1,023.35	0.00
011-0000011041-00	1/15/2003	Final	0.00	0.00	0.00
011-0000011042-00	1/15/2003	Final	407.06	407.06	0.00
011-0000011043-00	1/11/2003	Final	0.00	0.00	0.00
011-0000011047-00	1/15/2003	Final	466.23	466.23	0.00
011-0000011048-00	1/15/2003	Final	540.80	540.80	0.00
011-0000011049-00	1/16/2003	Final	0.00	0.00	0.00
011-0000011051-00	1/9/2003	Final	0.00	0.00	0.00
011-0000011052-00	1/10/2003	Final	240.00	240.00	0.00
011-0000011053-00	1/15/2003	Final	1,539.49	1,539.49	0.00
011-0000011054-00	1/15/2003	Final	233.07	233.07	0.00
011-0000011057-00	1/14/2003	Final	0.00	0.00	0.00
011-0000011058-00	1/15/2003	Final	0.00	0.00	0.00
011-0000011063-00	1/17/2003	Final	0.00	0.00	0.00
011-0000011065-00	1/15/2003	Final	0.00	0.00	0.00
011-0000011066-00	1/15/2003	Final	0.00	0.00	0.00
011-0000011067-00	1/15/2003	Final	93.88	93.88	0.00
011-0000011068-00	1/13/2003	Final	346.87	346.87	0.00
011-0000011069-00	1/17/2003	Final	532.41	532.41	0.00
011-0000011070-00	1/19/2003	Final	0.00	0.00	0.00
011-0000011071-00	1/4/2003	Final	0.00	0.00	0.00
011-0000011072-00	1/20/2003	Final	634.58	634.58	0.00
011-0000011073-00	1/15/2003	Final	175.00	175.00	0.00
011-0000011074-00	1/15/2003	Final	88.54	88.54	0.00
011-0000011078-00	1/15/2003	Final	365.69	365.69	0.00
011-0000011079-00	1/15/2003	Final	434.71	434.71	0.00
011-0000011080-00	1/15/2003	Final	323.10	323.10	0.00
011-0000011082-00	1/17/2003	Final	0.00	0.00	0.00
011-0000011083-00	1/4/2003	Final	500.00	500.00	0.00

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Loss Date: 2003					
011-0000011084-00	1/17/2003	Final	115.00	115.00	0.00
011-0000011086-00	1/19/2003	Final	0.00	0.00	0.00
011-0000011087-00	1/23/2003	Final	120.00	120.00	0.00
011-0000011092-00	1/23/2003	Final	0.00	0.00	0.00
011-0000011098-00	1/27/2003	Final	0.00	0.00	0.00
011-0000011099-00	1/27/2003	Final	0.00	0.00	0.00
011-0000011100-00	1/27/2003	Final	2,184.79	2,184.79	0.00
011-0000011101-00	1/15/2003	Final	285.68	285.68	0.00
011-0000011102-00	1/20/2003	Final	1,179.65	1,179.65	0.00
011-0000011103-00	1/4/2003	Final	0.00	0.00	0.00
011-0000011104-00	1/24/2003	Final	0.00	0.00	0.00
011-0000011105-00	1/27/2003	Final	0.00	0.00	0.00
011-0000011106-00	1/28/2003	Final	0.00	0.00	0.00
011-0000011107-00	1/23/2003	Final	0.00	0.00	0.00
011-0000011108-00	1/12/2003	Final	0.00	0.00	0.00
011-0000011109-00	1/15/2003	Final	176.04	176.04	0.00
011-0000011110-00	1/15/2003	Final	624.68	624.68	0.00
011-0000011111-00	1/15/2003	Final	799.96	799.96	0.00
011-0000011112-00	1/24/2003	Final	0.00	0.00	0.00
011-0000011113-00	1/23/2003	Final	167.70	167.70	0.00
011-0000011116-00	1/15/2003	Final	1,763.05	1,763.05	0.00
011-0000011118-00	1/9/2003	Final	0.00	0.00	0.00
011-0000011121-00	2/1/2003	Final	502.69	502.69	0.00
011-0000011124-00	1/4/2003	Final	39.53	39.53	0.00
011-0000011125-00	1/27/2003	Final	0.00	0.00	0.00
011-0000011126-00	1/27/2003	Final	0.00	0.00	0.00
011-0000011130-00	2/3/2003	Final	0.00	0.00	0.00
011-0000011131-00	1/15/2003	Final	0.00	0.00	0.00
011-0000011132-00	1/16/2003	Final	254.94	254.94	0.00
011-0000011133-00	1/27/2003	Final	0.00	0.00	0.00

tal	Paid Total	Outstanding
47	3,360.47	0.00
00	0.00	0.00
14	477.14	0.00
96	232.96	0.00
99	124.99	0.00
00	475.00	0.00
00	0.00	0.00
50	28.50	0.00
87	1,672.87	0.00
22	180.22	0.00
17	193.17	0.00
13	1,136.13	0.00
00	0.00	0.00
52	1,058.52	0.00
00	0.00	0.00
00	0.00	0.00
58	64.58	0.00
88	332.88	0.00
47	231.47	0.00
00	0.00	0.00
00	150.00	0.00
71	2,625.71	0.00
00	0.00	0.00
00	0.00	0.00
75	93.75	0.00
00	0.00	0.00
00	0.00	0.00
42	1,939.42	0.00
11	454.11	0.00
00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011170-00	2/14/2003	Final	0.00	0.00	0.00
011-0000011172-00	1/17/2003	Final	0.00	0.00	0.00
011-0000011173-00	1/15/2003	Final	0.00	0.00	0.00
011-0000011174-00	1/26/2003	Final	104.17	104.17	0.00
011-0000011175-00	1/15/2003	Final	205.29	205.29	0.00
011-0000011176-00	1/24/2003	Final	0.00	0.00	0.00
011-0000011177-00	2/14/2003	Final	120.80	120.80	0.00
011-0000011178-00	1/27/2003	Final	10.40	10.40	0.00
011-0000011179-00	1/15/2003	Final	0.00	0.00	0.00
011-0000011180-00	1/24/2003	Final	0.00	0.00	0.00
011-0000011181-00	2/19/2003	Final	0.00	0.00	0.00
011-0000011185-00	2/10/2003	Final	0.00	0.00	0.00
011-0000011186-00	2/23/2003	Final	0.00	0.00	0.00
011-0000011187-00	2/23/2003	Final	550.25	550.25	0.00
011-0000011188-00	2/2/2003	Final	943.18	943.18	0.00
011-0000011189-00	2/10/2003	Final	2,860.92	2,860.92	0.00
011-0000011190-00	2/24/2003	Final	0.00	0.00	0.00
011-0000011191-00	2/16/2003	Final	0.00	0.00	0.00
011-0000011193-00	2/14/2003	Final	257.10	257.10	0.00
011-0000011194-00	2/24/2003	Final	0.00	0.00	0.00
011-0000011195-00	1/16/2003	Final	99.61	99.61	0.00
011-0000011197-00	2/19/2003	Final	2,291.65	2,291.65	0.00
011-0000011198-00	2/13/2003	Final	0.00	0.00	0.00
011-0000011202-00	2/26/2003	Open	200.00	0.00	200.00
011-0000011204-00	2/16/2003	Final	173.18	173.18	0.00
011-0000011206-00	3/2/2003	Final	1,377.92	1,377.92	0.00
011-0000011207-00	2/13/2003	Final	436.15	436.15	0.00
011-0000011208-00	3/5/2003	Final	72.00	72.00	0.00
011-0000011209-00	3/2/2003	Final	0.00	0.00	0.00
011-0000011211-00	3/5/2003	Final	91.50	91.50	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011213-00	1/24/2003	Final	0.00	0.00	0.00
011-0000011214-00	3/7/2003	Final	0.00	0.00	0.00
011-0000011215-00	1/27/2003	Final	0.00	0.00	0.00
011-0000011216-00	3/7/2003	Final	150.00	150.00	0.00
011-0000011217-00	2/9/2003	Final	0.00	0.00	0.00
011-0000011218-00	3/6/2003	Final	226.55	226.55	0.00
011-0000011220-00	1/15/2003	Final	278.00	278.00	0.00
011-0000011221-00	3/5/2003	Final	240.00	240.00	0.00
011-0000011222-00	3/7/2003	Final	180.00	180.00	0.00
011-0000011223-00	3/4/2003	Final	240.00	240.00	0.00
011-0000011224-00	2/14/2003	Final	970.10	970.10	0.00
011-0000011225-00	3/9/2003	Final	0.00	0.00	0.00
011-0000011227-00	3/10/2003	Final	60.00	60.00	0.00
011-0000011229-00	3/10/2003	Final	0.00	0.00	0.00
011-0000011230-00	3/12/2003	Final	459.50	459.50	0.00
011-0000011231-00	3/3/2003	Final	0.00	0.00	0.00
011-0000011232-00	3/4/2003	Final	98.28	98.28	0.00
011-0000011237-00	3/15/2003	Final	0.00	0.00	0.00
011-0000011238-00	3/2/2003	Final	653.00	653.00	0.00
011-0000011239-00	3/13/2003	Final	0.00	0.00	0.00
011-0000011241-00	3/17/2003	Final	0.00	0.00	0.00
011-0000011242-00	3/10/2003	Final	52.00	52.00	0.00
011-0000011244-00	2/23/2003	Final	0.00	0.00	0.00
011-0000011245-00	3/7/2003	Final	0.00	0.00	0.00
011-0000011262-00	3/31/2003	Final	0.00	0.00	0.00
011-0000011263-00	3/26/2003	Final	256.16	256.16	0.00
011-0000011264-00	3/24/2003	Final	0.00	0.00	0.00
011-0000011265-00	2/1/2003	Final	2,409.20	2,409.20	0.00
011-0000011266-00	3/21/2003	Final	0.00	0.00	0.00
011-0000011269-00	3/25/2003	Final	1,478.43	1,478.43	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011270-00	3/31/2003	Final	269.58	269.58	0.00
011-0000011271-00	3/31/2003	Final	520.83	520.83	0.00
011-0000011272-00	4/4/2003	Final	0.00	0.00	0.00
011-0000011273-00	4/4/2003	Final	0.00	0.00	0.00
011-0000011274-00	4/3/2003	Final	259.37	259.37	0.00
011-0000011275-00	1/31/2003	Final	0.00	0.00	0.00
011-0000011276-00	4/5/2003	Final	0.00	0.00	0.00
011-0000011277-00	3/25/2003	Final	0.00	0.00	0.00
011-0000011278-00	3/3/2003	Final	720.82	720.82	0.00
011-0000011280-00	4/5/2003	Final	192.71	192.71	0.00
011-0000011281-00	4/2/2003	Final	240.00	240.00	0.00
011-0000011282-00	4/8/2003	Final	90.00	90.00	0.00
011-0000011283-00	4/4/2003	Final	0.00	0.00	0.00
011-0000011284-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011285-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011286-00	2/2/2003	Final	0.00	0.00	0.00
011-0000011287-00	4/8/2003	Final	62.50	62.50	0.00
011-0000011288-00	4/8/2003	Final	228.00	228.00	0.00
011-0000011289-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011290-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011292-00	4/8/2003	Final	93.74	93.74	0.00
011-0000011293-00	4/8/2003	Final	386.98	386.98	0.00
011-0000011294-00	4/8/2003	Final	83.22	83.22	0.00
011-0000011295-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011296-00	4/2/2003	Final	0.00	0.00	0.00
011-0000011297-00	4/8/2003	Final	771.83	771.83	0.00
011-0000011298-00	4/8/2003	Final	107.79	107.79	0.00
011-0000011299-00	3/17/2003	Final	217.98	217.98	0.00
011-0000011300-00	4/10/2003	Final	0.00	0.00	0.00
011-0000011301-00	4/10/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011302-00	4/10/2003	Final	0.00	0.00	0.00
011-0000011303-00	3/27/2003	Final	1,109.35	1,109.35	0.00
011-0000011304-00	4/8/2003	Final	365.04	365.04	0.00
011-0000011305-00	4/8/2003	Final	120.68	120.68	0.00
011-0000011306-00	4/8/2003	Final	156.30	156.30	0.00
011-0000011307-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011308-00	4/11/2003	Final	526.08	526.08	0.00
011-0000011309-00	3/22/2003	Final	0.00	0.00	0.00
011-0000011310-00	4/10/2003	Final	0.00	0.00	0.00
011-0000011313-00	4/8/2003	Final	50.00	50.00	0.00
011-0000011314-00	4/4/2003	Final	0.00	0.00	0.00
011-0000011315-00	4/4/2003	Final	135.36	135.36	0.00
011-0000011316-00	2/8/2003	Final	0.00	0.00	0.00
011-0000011317-00	1/4/2003	Final	0.00	0.00	0.00
011-0000011318-00	4/3/2003	Final	0.00	0.00	0.00
011-0000011319-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011320-00	4/8/2003	Final	480.82	480.82	0.00
011-0000011321-00	4/8/2003	Final	193.61	193.61	0.00
011-0000011322-00	4/16/2003	Final	438.09	438.09	0.00
011-0000011323-00	3/13/2003	Final	0.00	0.00	0.00
011-0000011328-00	4/21/2003	Final	526.08	526.08	0.00
011-0000011329-00	4/22/2003	Final	3,787.77	3,787.77	0.00
011-0000011330-00	4/14/2003	Final	0.00	0.00	0.00
011-0000011331-00	4/12/2003	Final	180.00	180.00	0.00
011-0000011332-00	4/8/2003	Final	121.25	121.25	0.00
011-0000011333-00	3/24/2003	Final	447.10	447.10	0.00
011-0000011334-00	3/28/2003	Final	0.00	0.00	0.00
011-0000011335-00	4/8/2003	Final	235.03	235.03	0.00
011-0000011336-00	4/24/2003	Open	500.00	243.00	257.00
011-0000011337-00	4/10/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011338-00	4/9/2003	Final	0.00	0.00	0.00
011-0000011339-00	4/23/2003	Final	186.64	186.64	0.00
011-0000011340-00	4/24/2003	Final	114.40	114.40	0.00
011-0000011341-00	2/7/2003	Final	0.00	0.00	0.00
011-0000011342-00	4/8/2003	Final	320.00	320.00	0.00
011-0000011343-00	4/24/2003	Final	240.00	240.00	0.00
011-0000011346-00	4/18/2003	Final	0.00	0.00	0.00
011-0000011347-00	4/28/2003	Final	0.00	0.00	0.00
011-0000011348-00	4/26/2003	Final	0.00	0.00	0.00
011-0000011350-00	4/4/2003	Final	262.50	262.50	0.00
011-0000011355-00	4/30/2003	Final	0.00	0.00	0.00
011-0000011356-00	4/26/2003	Final	114.58	114.58	0.00
011-0000011357-00	4/5/2003	Final	0.00	0.00	0.00
011-0000011358-00	5/1/2003	Final	83.68	83.68	0.00
011-0000011359-00	5/2/2003	Final	0.00	0.00	0.00
011-0000011360-00	4/23/2003	Final	41.61	41.61	0.00
011-0000011361-00	3/7/2003	Final	0.00	0.00	0.00
011-0000011363-00	5/4/2003	Final	0.00	0.00	0.00
011-0000011364-00	4/25/2003	Final	0.00	0.00	0.00
011-0000011365-00	5/1/2003	Final	0.00	0.00	0.00
011-0000011366-00	4/8/2003	Final	125.00	125.00	0.00
011-0000011368-00	4/28/2003	Final	0.00	0.00	0.00
011-0000011369-00	3/16/2003	Final	166.96	166.96	0.00
011-0000011370-00	4/10/2003	Final	0.00	0.00	0.00
011-0000011371-00	5/9/2003	Final	0.00	0.00	0.00
011-0000011376-00	4/29/2003	Final	0.00	0.00	0.00
011-0000011377-00	5/10/2003	Final	75.00	75.00	0.00
011-0000011379-00	5/14/2003	Final	427.55	427.55	0.00
011-0000011380-00	5/12/2003	Final	0.00	0.00	0.00
011-0000011381-00	5/12/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011382-00	5/1/2003	Final	0.00	0.00	0.00
011-0000011383-00	5/15/2003	Final	0.00	0.00	0.00
011-0000011384-00	5/14/2003	Final	240.00	240.00	0.00
011-0000011386-00	5/3/2003	Final	0.00	0.00	0.00
011-0000011389-00	5/14/2003	Final	0.00	0.00	0.00
011-0000011390-00	5/18/2003	Final	0.00	0.00	0.00
011-0000011391-00	4/21/2003	Final	0.00	0.00	0.00
011-0000011392-00	4/25/2003	Final	171.15	171.15	0.00
011-0000011397-00	5/18/2003	Final	0.00	0.00	0.00
011-0000011398-00	5/18/2003	Final	1,184.96	1,184.96	0.00
011-0000011400-00	4/25/2003	Final	0.00	0.00	0.00
011-0000011401-00	5/9/2003	Final	0.00	0.00	0.00
011-0000011402-00	5/24/2003	Final	0.00	0.00	0.00
011-0000011403-00	5/27/2003	Final	367.10	367.10	0.00
011-0000011404-00	4/28/2003	Final	43.75	43.75	0.00
011-0000011405-00	5/3/2003	Final	732.27	732.27	0.00
011-0000011406-00	4/20/2003	Final	0.00	0.00	0.00
011-0000011407-00	5/27/2003	Final	1,604.50	1,604.50	0.00
011-0000011408-00	5/18/2003	Final	88.54	88.54	0.00
011-0000011409-00	5/27/2003	Final	156.26	156.26	0.00
011-0000011410-00	3/19/2003	Final	0.00	0.00	0.00
011-0000011411-00	5/23/2003	Final	0.00	0.00	0.00
011-0000011412-00	5/21/2003	Final	0.00	0.00	0.00
011-0000011413-00	5/20/2003	Final	62.55	62.55	0.00
011-0000011415-00	5/19/2003	Final	51.04	51.04	0.00
011-0000011416-00	5/29/2003	Final	98.75	98.75	0.00
011-0000011417-00	4/8/2003	Final	0.00	0.00	0.00
011-0000011418-00	5/29/2003	Final	907.57	907.57	0.00
011-0000011419-00	4/30/2003	Final	1,263.52	1,263.52	0.00
011-0000011420-00	5/27/2003	Final	188.94	188.94	0.00

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ss Date	Status	Incurred Total	Paid Total	Outstanding
3/2003	Final	1,485.60	1,485.60	0.00
3/2003	Final	458.01	458.01	0.00
3/2003	Final	0.00	0.00	0.00
4/2003	Final	0.00	0.00	0.00
6/2003	Final	3,109.36	3,109.36	0.00
12/2003	Final	0.00	0.00	0.00
8/2003	Final	0.00	0.00	0.00
6/2003	Final	0.00	0.00	0.00
28/2003	Final	0.00	0.00	0.00
9/2003	Final	0.00	0.00	0.00
21/2003	Final	265.61	265.61	0.00
9/2003	Final	300.00	300.00	0.00
9/2003	Final	0.00	0.00	0.00
28/2003	Final	0.00	0.00	0.00
6/2003	Final	0.00	0.00	0.00
18/2003	Final	475.00	475.00	0.00
8/2003	Final	0.00	0.00	0.00
20/2003	Final	785.69	785.69	0.00
16/2003	Final	0.00	0.00	0.00
9/2003	Final	0.00	0.00	0.00
16/2003	Final	0.00	0.00	0.00
20/2003	Final	318.87	318.87	0.00
9/2003	Final	335.89	335.89	0.00
18/2003	Final	0.00	0.00	0.00
23/2003	Final	96.69	96.69	0.00
20/2003	Final	0.00	0.00	0.00
21/2003	Final	150.00	150.00	0.00
13/2003	Final	0.00	0.00	0.00
24/2003	Final	120.00	120.00	0.00
19/2003	Final	626.21	626.21	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011460-00	6/29/2003	Open	75,264.69	4,960.58	70,304.11
011-0000011461-00	6/29/2003	Final	78.12	78.12	0.00
011-0000011462-00	6/28/2003	Final	0.00	0.00	0.00
011-0000011464-00	6/29/2003	Final	4,760.73	4,760.73	0.00
011-0000011467-00	7/1/2003	Final	741.62	741.62	0.00
011-0000011468-00	6/26/2003	Final	0.00	0.00	0.00
011-0000011469-00	6/25/2003	Final	831.74	831.74	0.00
011-0000011470-00	6/25/2003	Final	444.44	444.44	0.00
011-0000011473-00	6/24/2003	Final	97.00	97.00	0.00
011-0000011475-00	6/23/2003	Final	843.75	843.75	0.00
011-0000011476-00	6/18/2003	Final	932.28	932.28	0.00
011-0000011480-00	7/7/2003	Final	218.97	218.97	0.00
011-0000011482-00	7/8/2003	Final	0.00	0.00	0.00
011-0000011483-00	7/8/2003	Final	2.50	2.50	0.00
011-0000011484-00	7/3/2003	Final	178.50	178.50	0.00
011-0000011486-00	7/3/2003	Final	0.00	0.00	0.00
011-0000011489-00	7/10/2003	Final	240.00	240.00	0.00
011-0000011490-00	7/7/2003	Final	0.00	0.00	0.00
011-0000011491-00	7/14/2003	Final	0.00	0.00	0.00
011-0000011492-00	7/9/2003	Final	0.00	0.00	0.00
011-0000011495-00	7/3/2003	Final	0.00	0.00	0.00
011-0000011498-00	7/7/2003	Final	926.88	926.88	0.00
011-0000011499-00	7/7/2003	Final	784.16	784.16	0.00
011-0000011500-00	6/19/2003	Final	161.94	161.94	0.00
011-0000011501-00	7/16/2003	Final	1,060.90	1,060.90	0.00
011-0000011503-00	7/20/2003	Final	0.00	0.00	0.00
011-0000011504-00	5/30/2003	Final	0.00	0.00	0.00
011-0000011505-00	7/7/2003	Final	0.00	0.00	0.00
011-0000011506-00	7/19/2003	Open	200.00	0.00	200.00
011-0000011507-00	7/21/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011508-00	7/21/2003	Final	104.00	104.00	0.00
011-0000011509-00	6/23/2003	Final	0.00	0.00	0.00
011-0000011510-00	7/8/2003	Final	0.00	0.00	0.00
011-0000011511-00	7/14/2003	Final	1,198.13	1,198.13	0.00
011-0000011512-00	7/8/2003	Final	0.00	0.00	0.00
011-0000011519-00	7/12/2003	Final	0.00	0.00	0.00
011-0000011520-00	6/27/2003	Final	3,074.63	3,074.63	0.00
011-0000011521-00	7/6/2003	Final	50.00	50.00	0.00
011-0000011522-00	7/3/2003	Final	565.46	565.46	0.00
011-0000011523-00	7/22/2003	Final	0.00	0.00	0.00
011-0000011527-00	7/14/2003	Final	0.00	0.00	0.00
011-0000011528-00	7/12/2003	Final	0.00	0.00	0.00
011-0000011529-00	7/25/2003	Final	877.00	877.00	0.00
011-0000011530-00	7/26/2003	Final	614.05	614.05	0.00
011-0000011531-00	7/24/2003	Final	0.00	0.00	0.00
011-0000011532-00	7/26/2003	Final	0.00	0.00	0.00
011-0000011533-00	7/28/2003	Final	1,892.32	1,892.32	0.00
011-0000011534-00	7/26/2003	Final	421.75	421.75	0.00
011-0000011535-00	7/25/2003	Open	1,000.00	0.00	1,000.00
011-0000011536-00	7/19/2003	Open	4,000.00	0.00	4,000.00
011-0000011537-00	7/29/2003	Final	0.00	0.00	0.00
011-0000011538-00	7/27/2003	Final	0.00	0.00	0.00
011-0000011539-00	7/24/2003	Final	0.00	0.00	0.00
011-0000011540-00	7/9/2003	Final	443.95	443.95	0.00
011-0000011541-00	7/13/2003	Final	0.00	0.00	0.00
011-0000011543-00	7/29/2003	Final	0.00	0.00	0.00
011-0000011544-00	7/28/2003	Final	0.00	0.00	0.00
011-0000011546-00	7/8/2003	Final	0.00	0.00	0.00
011-0000011547-00	7/26/2003	Final	0.00	0.00	0.00
011-0000011551-00	8/1/2003	Final	426.97	426.97	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011552-00	7/10/2003	Final	0.00	0.00	0.00
011-0000011555-00	7/29/2003	Final	205.73	205.73	0.00
011-0000011558-00	8/4/2003	Final	0.00	0.00	0.00
011-0000011559-00	8/4/2003	Final	0.00	0.00	0.00
011-0000011560-00	8/4/2003	Final	102.96	102.96	0.00
011-0000011561-00	8/1/2003	Final	0.00	0.00	0.00
011-0000011562-00	7/31/2003	Final	177.34	177.34	0.00
011-0000011563-00	7/27/2003	Final	0.00	0.00	0.00
011-0000011564-00	7/31/2003	Final	100.00	100.00	0.00
011-0000011565-00	8/5/2003	Final	2,300.00	2,300.00	0.00
011-0000011568-00	8/4/2003	Final	0.00	0.00	0.00
011-0000011569-00	7/29/2003	Final	1,751.25	1,751.25	0.00
011-0000011570-00	8/6/2003	Final	0.00	0.00	0.00
011-0000011571-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011572-00	7/14/2003	Final	0.00	0.00	0.00
011-0000011573-00	8/4/2003	Final	567.67	567.67	0.00
011-0000011574-00	7/27/2003	Final	1,508.16	1,508.16	0.00
011-0000011575-00	5/12/2003	Final	0.00	0.00	0.00
011-0000011577-00	7/9/2003	Final	0.00	0.00	0.00
011-0000011579-00	7/12/2003	Final	0.00	0.00	0.00
011-0000011581-00	8/8/2003	Final	104.58	104.58	0.00
011-0000011582-00	8/8/2003	Final	0.00	0.00	0.00
011-0000011583-00	8/8/2003	Final	240.00	240.00	0.00
011-0000011584-00	8/4/2003	Final	793.99	793.99	0.00
011-0000011585-00	8/7/2003	Final	0.00	0.00	0.00
011-0000011588-00	8/6/2003	Final	0.00	0.00	0.00
011-0000011594-00	8/16/2003	Final	2,036.55	2,036.55	0.00
011-0000011598-00	8/12/2003	Final	93.60	93.60	0.00
011-0000011599-00	8/4/2003	Final	201.60	201.60	0.00
011-0000011600-00	7/27/2003	Final	794.22	794.22	0.00

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oss Date	Status	Incurred Total	Paid Total	Outstanding
/16/2003	Final	0.00	0.00	0.00
/24/2003	Final	900.00	900.00	0.00
/26/2003	Final	0.00	0.00	0.00
/26/2003	Final	0.00	0.00	0.00
/19/2003	Final	328.00	328.00	0.00
/1/2003	Final	143.74	143.74	0.00
/16/2003	Final	0.00	0.00	0.00
/20/2003	Final	254.96	254.96	0.00
/12/2003	Final	0.00	0.00	0.00
/16/2003	Final	0.00	0.00	0.00
/2/2003	Final	0.00	0.00	0.00
/20/2003	Final	1,624.34	1,624.34	0.00
/26/2003	Final	0.00	0.00	0.00
/23/2003	Final	72.91	72.91	0.00
/22/2003	Final	4,403.34	4,403.34	0.00
/30/2003	Final	0.00	0.00	0.00
/20/2003	Final	242.45	242.45	0.00
/17/2003	Final	0.00	0.00	0.00
/21/2003	Final	7,485.00	7,485.00	0.00
/25/2003	Final	19.24	19.24	0.00
/23/2003	Final	778.09	778.09	0.00
/26/2003	Final	0.00	0.00	0.00
/1/2003	Final	0.00	0.00	0.00
/26/2003	Final	0.00	0.00	0.00
/4/2003	Final	580.10	580.10	0.00
/27/2003	Final	0.00	0.00	0.00
/1/2003	Final	0.00	0.00	0.00
/28/2003	Final	0.00	0.00	0.00
/24/2003	Final	0.00	0.00	0.00
/8/2003	Final	364.58	364.58	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011636-00	8/19/2003	Final	0.00	0.00	0.00
011-0000011637-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011638-00	8/29/2003	Final	1,054.60	1,054.60	0.00
011-0000011639-00	8/29/2003	Final	367.19	367.19	0.00
011-0000011640-00	8/29/2003	Final	494.37	494.37	0.00
011-0000011641-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011642-00	8/29/2003	Final	121.14	121.14	0.00
011-0000011643-00	8/29/2003	Final	407.11	407.11	0.00
011-0000011644-00	8/29/2003	Final	212.20	212.20	0.00
011-0000011645-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011646-00	8/29/2003	Final	599.96	599.96	0.00
011-0000011647-00	7/29/2003	Final	0.00	0.00	0.00
011-0000011648-00	8/29/2003	Final	175.00	175.00	0.00
011-0000011649-00	8/29/2003	Final	102.91	102.91	0.00
011-0000011650-00	8/29/2003	Final	71.87	71.87	0.00
011-0000011651-00	8/29/2003	Final	1,192.69	1,192.69	0.00
011-0000011652-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011653-00	8/29/2003	Final	70.72	70.72	0.00
011-0000011654-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011655-00	8/29/2003	Final	165.99	165.99	0.00
011-0000011656-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011657-00	8/29/2003	Final	89.65	89.65	0.00
011-0000011658-00	8/15/2003	Final	0.00	0.00	0.00
011-0000011659-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011660-00	8/29/2003	Final	447.60	447.60	0.00
011-0000011661-00	8/31/2003	Final	0.00	0.00	0.00
011-0000011662-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011663-00	8/31/2003	Final	625.00	625.00	0.00
011-0000011664-00	8/29/2003	Final	3,914.86	3,914.86	0.00
011-0000011665-00	8/29/2003	Final	239.10	239.10	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011666-00	8/29/2003	Final	131.24	131.24	0.00
011-0000011667-00	8/29/2003	Final	117.81	117.81	0.00
011-0000011668-00	8/19/2003	Final	0.00	0.00	0.00
011-0000011669-00	8/29/2003	Final	771.93	771.93	0.00
011-0000011670-00	8/29/2003	Final	116.17	116.17	0.00
011-0000011671-00	8/29/2003	Final	171.60	171.60	0.00
011-0000011672-00	8/29/2003	Final	118.80	118.80	0.00
011-0000011675-00	8/29/2003	Final	114.58	114.58	0.00
011-0000011676-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011677-00	8/29/2003	Final	35.40	35.40	0.00
011-0000011678-00	8/29/2003	Final	20.00	20.00	0.00
011-0000011679-00	8/29/2003	Final	1,071.53	1,071.53	0.00
011-0000011680-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011681-00	8/29/2003	Open	3,000.00	0.00	3,000.00
011-0000011682-00	8/29/2003	Final	600.91	600.91	0.00
011-0000011683-00	8/29/2003	Final	1,172.75	1,172.75	0.00
011-0000011684-00	8/30/2003	Final	239.51	239.51	0.00
011-0000011685-00	9/3/2003	Final	0.00	0.00	0.00
011-0000011686-00	8/25/2003	Final	373.14	373.14	0.00
011-0000011687-00	8/29/2003	Final	386.07	386.07	0.00
011-0000011688-00	8/29/2003	Final	590.51	590.51	0.00
011-0000011689-00	8/23/2003	Final	0.00	0.00	0.00
011-0000011690-00	9/3/2003	Final	52.03	52.03	0.00
011-0000011691-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011692-00	8/29/2003	Final	4,203.92	4,203.92	0.00
011-0000011693-00	9/3/2003	Final	125.00	125.00	0.00
011-0000011694-00	8/29/2003	Final	707.37	707.37	0.00
011-0000011695-00	8/29/2003	Final	400.00	400.00	0.00
011-0000011696-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011697-00	8/29/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011699-00	8/29/2003	Final	12.50	12.50	0.00
011-0000011700-00	8/29/2003	Final	214.93	214.93	0.00
011-0000011701-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011702-00	9/3/2003	Final	0.00	0.00	0.00
011-0000011703-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011704-00	8/29/2003	Final	271.00	271.00	0.00
011-0000011705-00	7/7/2003	Final	0.00	0.00	0.00
011-0000011706-00	8/29/2003	Final	1,766.38	1,766.38	0.00
011-0000011707-00	8/29/2003	Final	374.31	374.31	0.00
011-0000011708-00	8/29/2003	Final	260.09	260.09	0.00
011-0000011709-00	8/29/2003	Final	731.54	731.54	0.00
011-0000011710-00	8/29/2003	Final	343.95	343.95	0.00
011-0000011711-00	8/29/2003	Final	972.64	972.64	0.00
011-0000011712-00	9/9/2003	Final	0.00	0.00	0.00
011-0000011713-00	8/29/2003	Final	37.49	37.49	0.00
011-0000011714-00	7/29/2003	Final	4,515.18	4,515.18	0.00
011-0000011715-00	8/29/2003	Final	528.86	528.86	0.00
011-0000011716-00	8/29/2003	Final	170.83	170.83	0.00
011-0000011717-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011718-00	8/29/2003	Final	29.98	29.98	0.00
011-0000011719-00	8/5/2003	Final	1,459.28	1,459.28	0.00
011-0000011720-00	8/5/2003	Final	361.92	361.92	0.00
011-0000011721-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011722-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011723-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011724-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011725-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011726-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011727-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011728-00	8/5/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011729-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011730-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011731-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011732-00	8/5/2003	Final	364.00	364.00	0.00
011-0000011733-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011734-00	8/5/2003	Final	427.08	427.08	0.00
011-0000011735-00	8/5/2003	Final	218.24	218.24	0.00
011-0000011736-00	8/5/2003	Final	184.92	184.92	0.00
011-0000011737-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011739-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011740-00	8/5/2003	Final	236.95	236.95	0.00
011-0000011741-00	8/5/2003	Final	0.00	0.00	0.00
011-0000011742-00	9/11/2003	Final	0.00	0.00	0.00
011-0000011743-00	8/26/2003	Final	0.00	0.00	0.00
011-0000011744-00	9/12/2003	Final	0.00	0.00	0.00
011-0000011746-00	8/18/2003	Final	115.00	115.00	0.00
011-0000011747-00	8/29/2003	Final	1,123.18	1,123.18	0.00
011-0000011748-00	8/29/2003	Final	853.63	853.63	0.00
011-0000011749-00	8/29/2003	Final	559.37	559.37	0.00
011-0000011750-00	8/29/2003	Final	195.83	195.83	0.00
011-0000011751-00	9/14/2003	Open	300.00	0.00	300.00
011-0000011752-00	9/14/2003	Final	0.00	0.00	0.00
011-0000011754-00	9/14/2003	Final	163.29	163.29	0.00
011-0000011755-00	9/14/2003	Final	183.26	183.26	0.00
011-0000011756-00	8/29/2003	Final	341.87	341.87	0.00
011-0000011757-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011758-00	8/29/2003	Final	119.79	119.79	0.00
011-0000011759-00	9/14/2003	Final	0.00	0.00	0.00
011-0000011760-00	9/17/2003	Final	0.00	0.00	0.00
011-0000011761-00	8/29/2003	Final	776.27	776.27	0.00

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Date	Status	Incurred Total	Paid Total	Outstanding
2003	Final	1,083.10	1,083.10	0.00
2003	Final	245.40	245.40	0.00
2003	Final	0.00	0.00	0.00
2003	Final	0.00	0.00	0.00
2003	Final	52.00	52.00	0.00
003	Final	0.00	0.00	0.00
2003	Final	0.00	0.00	0.00
2003	Final	447.95	447.95	0.00
003	Final	0.00	0.00	0.00
2003	Final	79.99	79.99	0.00
2003	Final	0.00	0.00	0.00
003	Final	0.00	0.00	0.00
2003	Final	0.00	0.00	0.00
2003	Final	5,120.10	5,120.10	0.00
2003	Final	0.00	0.00	0.00
2003	Final	960.62	960.62	0.00
2003	Final	0.00	0.00	0.00
2003	Final	26.02	26.02	0.00
2003	Final	0.00	0.00	0.00
003	Final	0.00	0.00	0.00
2003	Final	0.00	0.00	0.00
2003	Final	27.70	27.70	0.00
2003	Final	855.90	855.90	0.00
2003	Final	1,096.24	1,096.24	0.00
2003	Final	0.00	0.00	0.00
2003	Final	0.00	0.00	0.00
2003	Final	0.00	0.00	0.00
2003	Final	0.00	0.00	0.00
003	Final	0.00	0.00	0.00
2003	Final	30.43	30.43	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011806-00	9/30/2003	Final	0.00	0.00	0.00
011-0000011807-00	8/25/2003	Final	0.00	0.00	0.00
011-0000011808-00	9/19/2003	Final	418.37	418.37	0.00
011-0000011809-00	9/13/2003	Final	2,051.34	2,051.34	0.00
011-0000011811-00	9/4/2003	Final	0.00	0.00	0.00
011-0000011813-00	9/25/2003	Final	0.00	0.00	0.00
011-0000011815-00	9/25/2003	Final	0.00	0.00	0.00
011-0000011816-00	10/4/2003	Final	218.73	218.73	0.00
011-0000011817-00	10/1/2003	Final	122.00	122.00	0.00
011-0000011818-00	10/2/2003	Final	0.00	0.00	0.00
011-0000011819-00	9/14/2003	Final	113.46	113.46	0.00
011-0000011820-00	10/2/2003	Final	286.46	286.46	0.00
011-0000011821-00	9/18/2003	Final	0.00	0.00	0.00
011-0000011822-00	10/1/2003	Final	0.00	0.00	0.00
011-0000011823-00	6/17/2003	Final	0.00	0.00	0.00
011-0000011824-00	10/2/2003	Final	0.00	0.00	0.00
011-0000011825-00	10/2/2003	Open	800.00	0.00	800.00
011-0000011826-00	10/7/2003	Final	0.00	0.00	0.00
011-0000011827-00	10/4/2003	Final	0.00	0.00	0.00
011-0000011828-00	10/8/2003	Final	240.00	240.00	0.00
011-0000011829-00	9/15/2003	Final	0.00	0.00	0.00
011-0000011830-00	10/4/2003	Final	0.00	0.00	0.00
011-0000011831-00	10/11/2003	Final	553.08	553.08	0.00
011-0000011832-00	10/11/2003	Final	566.77	566.77	0.00
011-0000011833-00	10/11/2003	Final	147.97	147.97	0.00
011-0000011834-00	10/11/2003	Final	891.23	891.23	0.00
011-0000011835-00	10/11/2003	Final	359.24	359.24	0.00
011-0000011836-00	10/11/2003	Open	500.00	0.00	500.00
011-0000011837-00	10/11/2003	Final	906.84	906.84	0.00
011-0000011838-00	10/11/2003	Final	559.05	559.05	0.00

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ber	Loss Date	Status	Incurred Total	Paid Total	Outstanding
2003					
11839-00	10/11/2003	Final	899.61	899.61	0.00
11840-00	10/11/2003	Final	371.87	371.87	0.00
11841-00	10/11/2003	Final	521.07	521.07	0.00
11842-00	10/11/2003	Final	989.43	989.43	0.00
11843-00	10/11/2003	Final	0.00	0.00	0.00
11844-00	10/11/2003	Final	1,533.41	1,533.41	0.00
11845-00	10/11/2003	Final	117.08	117.08	0.00
11847-00	10/11/2003	Final	783.20	783.20	0.00
11848-00	10/11/2003	Final	92.51	92.51	0.00
11849-00	10/11/2003	Final	50.00	50.00	0.00
11850-00	10/11/2003	Final	617.43	617.43	0.00
11851-00	10/11/2003	Final	118.62	118.62	0.00
11852-00	10/11/2003	Final	571.87	571.87	0.00
11853-00	10/11/2003	Final	319.56	319.56	0.00
11854-00	10/11/2003	Final	492.45	492.45	0.00
11855-00	10/11/2003	Final	83.04	83.04	0.00
11856-00	10/11/2003	Final	1,324.70	1,324.70	0.00
11857-00	10/11/2003	Final	1,448.95	1,448.95	0.00
11858-00	10/11/2003	Final	30.78	30.78	0.00
11859-00	10/11/2003	Final	394.14	394.14	0.00
11860-00	10/11/2003	Final	83.02	83.02	0.00
11861-00	10/11/2003	Final	197.23	197.23	0.00
11862-00	10/11/2003	Final	212.54	212.54	0.00
11863-00	10/11/2003	Final	838.14	838.14	0.00
11864-00	9/13/2003	Final	0.00	0.00	0.00
11865-00	9/25/2003	Final	0.00	0.00	0.00
11866-00	10/11/2003	Final	67.08	67.08	0.00
11867-00	10/11/2003	Final	302.08	302.08	0.00
11868-00	10/11/2003	Final	79.96	79.96	0.00
11869-00	10/11/2003	Final	1,537.13	1,537.13	0.00

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Loss Date: 2003					
011-0000011870-00	10/11/2003	Final	74.00	74.00	0.00
011-0000011871-00	10/11/2003	Final	25.00	25.00	0.00
011-0000011872-00	10/11/2003	Final	718.20	718.20	0.00
011-0000011873-00	10/11/2003	Final	428.70	428.70	0.00
011-0000011875-00	10/11/2003	Final	395.12	395.12	0.00
011-0000011877-00	10/11/2003	Final	272.89	272.89	0.00
011-0000011878-00	10/11/2003	Final	75.00	75.00	0.00
011-0000011879-00	10/2/2003	Final	0.00	0.00	0.00
011-0000011880-00	10/2/2003	Final	0.00	0.00	0.00
011-0000011881-00	10/11/2003	Final	365.21	365.21	0.00
011-0000011883-00	10/11/2003	Final	140.00	140.00	0.00
011-0000011884-00	10/11/2003	Final	1,824.47	1,824.47	0.00
011-0000011885-00	10/11/2003	Final	126.01	126.01	0.00
011-0000011887-00	9/3/2003	Final	0.00	0.00	0.00
011-0000011888-00	10/11/2003	Final	1,941.84	1,941.84	0.00
011-0000011889-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011890-00	10/11/2003	Final	530.00	530.00	0.00
011-0000011891-00	10/11/2003	Final	340.00	340.00	0.00
011-0000011892-00	10/11/2003	Final	83.32	83.32	0.00
011-0000011893-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011894-00	10/11/2003	Final	473.54	473.54	0.00
011-0000011895-00	10/11/2003	Final	86.00	86.00	0.00
011-0000011896-00	10/11/2003	Final	902.24	902.24	0.00
011-0000011897-00	10/11/2003	Final	295.08	295.08	0.00
011-0000011898-00	10/8/2003	Open	500.00	0.00	500.00
011-0000011899-00	10/11/2003	Final	167.13	167.13	0.00
011-0000011900-00	10/11/2003	Final	117.70	117.70	0.00
011-0000011901-00	10/11/2003	Final	130.00	130.00	0.00
011-0000011902-00	10/10/2003	Final	0.00	0.00	0.00
011-0000011904-00	10/3/2003	Final	250.00	250.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011905-00	10/20/2003	Final	0.00	0.00	0.00
011-0000011906-00	10/11/2003	Final	200.31	200.31	0.00
011-0000011907-00	10/11/2003	Final	494.74	494.74	0.00
011-0000011908-00	10/15/2003	Final	133.90	133.90	0.00
011-0000011909-00	10/11/2003	Final	213.52	213.52	0.00
011-0000011910-00	10/18/2003	Final	4,701.01	4,701.01	0.00
011-0000011911-00	10/11/2003	Final	110.77	110.77	0.00
011-0000011912-00	10/20/2003	Final	0.00	0.00	0.00
011-0000011914-00	10/20/2003	Final	0.00	0.00	0.00
011-0000011915-00	9/12/2003	Final	122.72	122.72	0.00
011-0000011916-00	10/11/2003	Final	352.07	352.07	0.00
011-0000011917-00	10/21/2003	Final	0.00	0.00	0.00
011-0000011918-00	10/11/2003	Final	470.07	470.07	0.00
011-0000011919-00	10/11/2003	Final	44.97	44.97	0.00
011-0000011920-00	10/11/2003	Final	296.87	296.87	0.00
011-0000011921-00	10/11/2003	Final	1,651.87	1,651.87	0.00
011-0000011923-00	10/11/2003	Final	94.73	94.73	0.00
011-0000011924-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011925-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011926-00	10/11/2003	Final	200.00	200.00	0.00
011-0000011927-00	10/23/2003	Final	4,799.27	4,799.27	0.00
011-0000011929-00	8/29/2003	Final	0.00	0.00	0.00
011-0000011930-00	10/8/2003	Final	625.00	625.00	0.00
011-0000011931-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011932-00	10/11/2003	Final	289.00	289.00	0.00
011-0000011933-00	10/11/2003	Final	6,895.57	6,895.57	0.00
011-0000011934-00	10/11/2003	Final	328.65	328.65	0.00
011-0000011936-00	10/7/2003	Final	530.10	530.10	0.00
011-0000011937-00	9/26/2003	Open	1,000.00	0.00	1,000.00
011-0000011938-00	10/28/2003	Open	800.00	0.00	800.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000011939-00	10/11/2003	Final	130.00	130.00	0.00
011-0000011940-00	10/11/2003	Final	380.80	380.80	0.00
011-0000011941-00	10/10/2003	Final	0.00	0.00	0.00
011-0000011942-00	10/11/2003	Final	582.28	582.28	0.00
011-0000011943-00	10/11/2003	Final	40.00	40.00	0.00
011-0000011944-00	10/28/2003	Final	258.91	258.91	0.00
011-0000011945-00	10/28/2003	Final	5,965.34	5,965.34	0.00
011-0000011946-00	10/7/2003	Final	312.00	312.00	0.00
011-0000011948-00	11/3/2003	Final	0.00	0.00	0.00
011-0000011949-00	10/26/2003	Final	123.70	123.70	0.00
011-0000011950-00	10/10/2003	Final	0.00	0.00	0.00
011-0000011951-00	10/11/2003	Final	569.20	569.20	0.00
011-0000011952-00	10/27/2003	Final	0.00	0.00	0.00
011-0000011953-00	11/3/2003	Final	6,788.84	6,788.84	0.00
011-0000011954-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011955-00	10/11/2003	Final	951.99	951.99	0.00
011-0000011958-00	10/11/2003	Final	48.00	48.00	0.00
011-0000011959-00	11/5/2003	Final	0.00	0.00	0.00
011-0000011960-00	7/11/2003	Final	0.00	0.00	0.00
011-0000011961-00	10/11/2003	Final	84.67	84.67	0.00
011-0000011962-00	10/28/2003	Final	459.37	459.37	0.00
011-0000011970-00	10/11/2003	Final	174.74	174.74	0.00
011-0000011971-00	10/30/2003	Final	0.00	0.00	0.00
011-0000011972-00	11/12/2003	Final	400.00	400.00	0.00
011-0000011974-00	11/2/2003	Final	0.00	0.00	0.00
011-0000011976-00	11/4/2003	Final	0.00	0.00	0.00
011-0000011977-00	11/14/2003	Final	49.99	49.99	0.00
011-0000011978-00	10/13/2003	Open	1,000.00	0.00	1,000.00
011-0000011979-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011980-00	10/2/2003	Final	0.00	0.00	0.00

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Loss Date: 2003					
011-0000011981-00	10/11/2003	Final	0.00	0.00	0.00
011-0000011982-00	11/16/2003	Open	200.00	0.00	200.00
011-0000011988-00	11/17/2003	Final	0.00	0.00	0.00
011-0000011989-00	10/28/2003	Final	338.54	338.54	0.00
011-0000011990-00	11/15/2003	Final	98.96	98.96	0.00
011-0000011991-00	6/28/2003	Final	2,669.76	2,669.76	0.00
011-0000011993-00	11/19/2003	Open	300.00	0.00	300.00
011-0000011994-00	11/19/2003	Final	132.18	132.18	0.00
011-0000011995-00	11/19/2003	Final	244.82	244.82	0.00
011-0000011996-00	11/19/2003	Final	845.74	845.74	0.00
011-0000011997-00	11/19/2003	Final	2,368.90	2,368.90	0.00
011-0000011998-00	11/19/2003	Final	1,701.79	1,701.79	0.00
011-0000011999-00	11/19/2003	Final	104.14	104.14	0.00
011-0000012000-00	11/3/2003	Final	0.00	0.00	0.00
011-0000012001-00	11/19/2003	Final	39.00	39.00	0.00
011-0000012002-00	11/19/2003	Final	599.94	599.94	0.00
011-0000012003-00	11/19/2003	Final	140.40	140.40	0.00
011-0000012004-00	11/15/2003	Final	4,942.10	4,942.10	0.00
011-0000012005-00	11/11/2003	Final	100.00	100.00	0.00
011-0000012006-00	11/19/2003	Open	1,000.00	0.00	1,000.00
011-0000012007-00	11/19/2003	Final	149.63	149.63	0.00
011-0000012008-00	11/19/2003	Final	630.36	630.36	0.00
011-0000012009-00	11/19/2003	Final	0.00	0.00	0.00
011-0000012011-00	11/19/2003	Open	700.00	0.00	700.00
011-0000012012-00	10/28/2003	Final	8,032.24	8,032.24	0.00
011-0000012013-00	11/19/2003	Final	0.00	0.00	0.00
011-0000012014-00	11/20/2003	Final	0.00	0.00	0.00
011-0000012015-00	11/11/2003	Final	0.00	0.00	0.00
011-0000012016-00	11/20/2003	Open	300.00	0.00	300.00
011-0000012017-00	11/14/2003	Final	0.00	0.00	0.00

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Loss Date: 2003					
011-0000012018-00	11/1/2003	Final	0.00	0.00	0.00
011-0000012019-00	11/19/2003	Final	699.81	699.81	0.00
011-0000012020-00	11/19/2003	Final	879.62	879.62	0.00
011-0000012021-00	11/20/2003	Final	312.30	312.30	0.00
011-0000012022-00	11/19/2003	Final	742.18	742.18	0.00
011-0000012023-00	11/19/2003	Final	681.88	681.88	0.00
011-0000012024-00	11/19/2003	Final	387.32	387.32	0.00
011-0000012025-00	11/20/2003	Final	815.00	815.00	0.00
011-0000012026-00	11/19/2003	Final	18.10	18.10	0.00
011-0000012027-00	11/24/2003	Open	500.00	0.00	500.00
011-0000012028-00	11/24/2003	Final	0.00	0.00	0.00
011-0000012029-00	11/19/2003	Final	164.06	164.06	0.00
011-0000012030-00	11/19/2003	Final	0.00	0.00	0.00
011-0000012032-00	11/19/2003	Final	0.00	0.00	0.00
011-0000012033-00	11/14/2003	Final	493.79	493.79	0.00
011-0000012034-00	10/22/2003	Final	7,425.91	7,425.91	0.00
011-0000012041-00	11/19/2003	Final	0.00	0.00	0.00
011-0000012042-00	11/20/2003	Final	98.44	98.44	0.00
011-0000012043-00	11/29/2003	Final	0.00	0.00	0.00
011-0000012044-00	11/29/2003	Final	200.00	200.00	0.00
011-0000012045-00	11/30/2003	Final	100.00	100.00	0.00
011-0000012046-00	11/29/2003	Final	0.00	0.00	0.00
011-0000012047-00	11/19/2003	Open	800.00	0.00	800.00
011-0000012048-00	12/1/2003	Final	0.00	0.00	0.00
011-0000012050-00	11/27/2003	Final	0.00	0.00	0.00
011-0000012051-00	12/1/2003	Final	0.00	0.00	0.00
011-0000012052-00	11/20/2003	Final	0.00	0.00	0.00
011-0000012053-00	11/26/2003	Final	0.00	0.00	0.00
011-0000012054-00	11/19/2003	Final	110.00	110.00	0.00
011-0000012055-00	11/29/2003	Final	0.00	0.00	0.00

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Loss Date: 2003					
011-0000012056-00	11/24/2003	Final	0.00	0.00	0.00
011-0000012057-00	11/30/2003	Final	0.00	0.00	0.00
011-0000012058-00	12/2/2003	Final	0.00	0.00	0.00
011-0000012059-00	12/1/2003	Final	0.00	0.00	0.00
011-0000012060-00	11/19/2003	Final	0.00	0.00	0.00
011-0000012061-00	11/25/2003	Final	0.00	0.00	0.00
011-0000012063-00	11/19/2003	Final	0.00	0.00	0.00
011-0000012064-00	11/18/2003	Open	500.00	0.00	500.00
011-0000012065-00	12/3/2003	Final	14,368.20	14,368.20	0.00
011-0000012066-00	12/3/2003	Final	0.00	0.00	0.00
011-0000012067-00	11/29/2003	Final	155.00	155.00	0.00
011-0000012068-00	11/19/2003	Final	337.57	337.57	0.00
011-0000012069-00	11/25/2003	Final	337.57	337.57	0.00
011-0000012070-00	10/11/2003	Final	1,749.83	1,749.83	0.00
011-0000012072-00	12/4/2003	Open	200.00	0.00	200.00
011-0000012073-00	11/8/2003	Final	504.00	504.00	0.00
011-0000012074-00	10/16/2003	Final	0.00	0.00	0.00
011-0000012075-00	11/19/2003	Final	562.29	562.29	0.00
011-0000012076-00	11/26/2003	Final	0.00	0.00	0.00
011-0000012077-00	11/29/2003	Final	259.98	259.98	0.00
011-0000012078-00	12/4/2003	Final	0.00	0.00	0.00
011-0000012079-00	11/29/2003	Final	924.00	924.00	0.00
011-0000012080-00	11/19/2003	Open	500.00	0.00	500.00
011-0000012083-00	11/25/2003	Final	1,067.18	1,067.18	0.00
011-0000012084-00	12/2/2003	Final	807.09	807.09	0.00
011-0000012085-00	11/19/2003	Final	170.00	170.00	0.00
011-0000012086-00	12/1/2003	Final	265.21	265.21	0.00
011-0000012087-00	11/26/2003	Final	0.00	0.00	0.00
011-0000012088-00	11/29/2003	Final	241.91	241.91	0.00
011-0000012089-00	12/7/2003	Final	65.00	65.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000012091-00	12/8/2003	Final	0.00	0.00	0.00
011-0000012092-00	12/4/2003	Final	38.80	38.80	0.00
011-0000012093-00	12/3/2003	Final	4,526.44	4,526.44	0.00
011-0000012094-00	11/26/2003	Final	149.80	149.80	0.00
011-0000012095-00	12/3/2003	Final	57.20	57.20	0.00
011-0000012096-00	12/9/2003	Final	0.00	0.00	0.00
011-0000012097-00	12/1/2003	Final	0.00	0.00	0.00
011-0000012098-00	11/29/2003	Final	1,447.49	1,447.49	0.00
011-0000012099-00	12/2/2003	Open	1,000.00	0.00	1,000.00
011-0000012100-00	12/6/2003	Final	1,879.50	1,879.50	0.00
011-0000012103-00	11/28/2003	Final	500.00	500.00	0.00
011-0000012104-00	11/19/2003	Final	1,559.84	1,559.84	0.00
011-0000012105-00	7/18/2003	Final	0.00	0.00	0.00
011-0000012106-00	12/8/2003	Final	0.00	0.00	0.00
011-0000012107-00	12/10/2003	Final	175.00	175.00	0.00
011-0000012108-00	12/9/2003	Open	400.00	0.00	400.00
011-0000012109-00	12/9/2003	Open	300.00	0.00	300.00
011-0000012112-00	12/9/2003	Final	0.00	0.00	0.00
011-0000012113-00	12/9/2003	Final	240.00	240.00	0.00
011-0000012117-00	11/29/2003	Final	15.00	15.00	0.00
011-0000012118-00	11/17/2003	Final	77.99	77.99	0.00
011-0000012119-00	12/4/2003	Final	132.29	132.29	0.00
011-0000012120-00	11/19/2003	Final	203.00	203.00	0.00
011-0000012121-00	12/13/2003	Final	0.00	0.00	0.00
011-0000012122-00	12/11/2003	Final	288.54	288.54	0.00
011-0000012123-00	12/5/2003	Open	250.00	0.00	250.00
011-0000012124-00	11/19/2003	Final	690.48	690.48	0.00
011-0000012125-00	4/27/2003	Final	0.00	0.00	0.00
011-0000012126-00	4/27/2003	Final	0.00	0.00	0.00
011-0000012127-00	12/1/2003	Final	0.00	0.00	0.00

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m Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
s Date: 2003					
-0000012132-00	12/19/2003	Final	0.00	0.00	0.00
-0000012133-00	10/18/2003	Final	56.61	56.61	0.00
-0000012134-00	11/29/2003	Final	616.28	616.28	0.00
-0000012135-00	12/18/2003	Final	0.00	0.00	0.00
-0000012136-00	12/1/2003	Final	0.00	0.00	0.00
-0000012138-00	12/1/2003	Final	130.00	130.00	0.00
-0000012139-00	12/9/2003	Final	100.00	100.00	0.00
-0000012140-00	12/18/2003	Open	989.62	0.00	989.62
-0000012141-00	12/22/2003	Final	1,883.15	1,883.15	0.00
-0000012143-00	11/19/2003	Open	850.00	0.00	850.00
-0000012144-00	12/5/2003	Final	0.00	0.00	0.00
-0000012145-00	12/28/2003	Final	0.00	0.00	0.00
-0000012146-00	11/20/2003	Final	223.39	223.39	0.00
-0000012151-00	12/25/2003	Final	0.00	0.00	0.00
-0000012152-00	1/31/2003	Final	150.00	150.00	0.00
-0000012153-00	12/31/2003	Final	185.55	185.55	0.00
-0000012158-00	12/1/2003	Final	346.03	346.03	0.00
-0000012159-00	1/4/2003	Final	566.55	566.55	0.00
-0000012161-00	12/7/2003	Final	0.00	0.00	0.00
-0000012162-00	12/8/2003	Final	93.75	93.75	0.00
-0000012163-00	12/22/2003	Final	0.00	0.00	0.00
-0000012165-00	12/31/2003	Final	0.00	0.00	0.00
-0000012166-00	12/24/2003	Final	516.83	516.83	0.00
-0000012167-00	12/28/2003	Final	0.00	0.00	0.00
-0000012168-00	12/3/2003	Final	1,686.45	1,686.45	0.00
-0000012171-00	12/17/2003	Final	50.00	50.00	0.00
-0000012172-00	11/1/2003	Final	786.80	786.80	0.00
-0000012173-00	12/8/2003	Final	199.93	199.93	0.00
-0000012174-00	12/1/2003	Final	0.00	0.00	0.00
-0000012176-00	12/23/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000012177-00	12/17/2003	Open	500.00	0.00	500.00
011-0000012178-00	12/31/2003	Final	188.03	188.03	0.00
011-0000012179-00	12/12/2003	Final	488.74	488.74	0.00
011-0000012187-00	12/27/2003	Open	100.00	0.00	100.00
011-0000012243-00	12/31/2003	Reopened	500.00	112.49	387.51
011-0000012248-00	10/11/2003	Open	1,000.00	0.00	1,000.00
011-0000012254-00	12/25/2003	Final	0.00	0.00	0.00
011-0000012381-00	12/7/2003	Final	405.63	405.63	0.00
011-0000012405-00	12/30/2003	Final	148.72	148.72	0.00
011-0000012425-00	12/15/2003	Final	0.00	0.00	0.00
011-0000012439-00	11/1/2003	Final	0.00	0.00	0.00
011-0000012463-00	12/8/2003	Final	0.00	0.00	0.00
011-0000012474-00	12/24/2003	Final	0.00	0.00	0.00
011-0000012485-00	12/31/2003	Final	394.96	394.96	0.00
011-0000012506-00	12/3/2003	Final	700.00	700.00	0.00
011-0000012507-00	12/23/2003	Final	979.25	979.25	0.00
011-0000012620-00	12/19/2003	Final	338.02	338.02	0.00
011-0000012652-00	12/31/2003	Final	338.56	338.56	0.00
011-0000012660-00	12/17/2003	Final	179.16	179.16	0.00
011-0000012677-00	12/1/2003	Final	0.00	0.00	0.00
011-0000012790-00	11/1/2003	Final	0.00	0.00	0.00
011-0000012799-00	10/11/2003	Final	0.00	0.00	0.00
011-0000012831-00	12/7/2003	Final	0.00	0.00	0.00
011-0000012849-00	12/14/2003	Final	0.00	0.00	0.00
011-0000012869-00	12/31/2003	Final	0.00	0.00	0.00
011-0000012923-00	12/31/2003	Final	0.00	0.00	0.00
011-0000012963-00	12/24/2003	Final	0.00	0.00	0.00
011-0000012973-00	8/1/2003	Final	0.00	0.00	0.00
011-0000013009-00	12/1/2003	Final	400.00	400.00	0.00
011-0000013151-00	12/31/2003	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2003					
011-0000013413-00	7/7/2003	Final	357.00	357.00	0.00
011-0000013861-00	7/12/2003	Final	25.00	25.00	0.00
012-0000000001-00	11/10/2003	Final	300.00	300.00	0.00
Total By Loss Date:				**933 Claims**	
			448,139.41	**353,501.17**	**94,638.24**

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012154-00	1/2/2004	Open	800.00	0.00	800.00
011-0000012155-00	1/2/2004	Final	143.40	143.40	0.00
011-0000012157-00	1/2/2004	Open	400.00	0.00	400.00
011-0000012160-00	1/2/2004	Final	62.75	62.75	0.00
011-0000012164-00	1/2/2004	Final	299.69	299.69	0.00
011-0000012169-00	1/4/2004	Final	0.00	0.00	0.00
011-0000012170-00	1/2/2004	Final	84.20	84.20	0.00
011-0000012175-00	1/6/2004	Final	350.48	350.48	0.00
011-0000012180-00	1/6/2004	Open	800.00	0.00	800.00
011-0000012183-00	1/3/2004	Final	0.00	0.00	0.00
011-0000012184-00	1/1/2004	Open	400.00	0.00	400.00
011-0000012185-00	1/4/2004	Final	3,364.55	3,364.55	0.00
011-0000012186-00	1/11/2004	Final	46.69	46.69	0.00
011-0000012188-00	1/11/2004	Final	337.83	337.83	0.00
011-0000012189-00	1/11/2004	Final	1,108.03	1,108.03	0.00
011-0000012190-00	1/11/2004	Final	904.37	904.37	0.00
011-0000012191-00	1/11/2004	Open	1,000.00	0.00	1,000.00
011-0000012192-00	1/2/2004	Final	21.16	21.16	0.00
011-0000012194-00	1/2/2004	Final	321.14	321.14	0.00
011-0000012195-00	1/2/2004	Final	540.74	540.74	0.00
011-0000012196-00	1/11/2004	Final	329.53	329.53	0.00
011-0000012197-00	1/11/2004	Final	68.72	68.72	0.00
011-0000012198-00	1/11/2004	Open	800.00	0.00	800.00
011-0000012199-00	1/11/2004	Final	352.48	352.48	0.00
011-0000012200-00	1/11/2004	Final	214.99	214.99	0.00
011-0000012201-00	1/11/2004	Open	1,000.00	0.00	1,000.00
011-0000012202-00	1/11/2004	Final	77.43	77.43	0.00
011-0000012203-00	1/11/2004	Final	902.29	902.29	0.00
011-0000012204-00	1/11/2004	Final	601.80	601.80	0.00
011-0000012205-00	1/11/2004	Final	676.30	676.30	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012206-00	1/11/2004	Final	191.61	191.61	0.00
011-0000012207-00	1/9/2004	Open	500.00	0.00	500.00
011-0000012208-00	1/11/2004	Final	342.97	342.97	0.00
011-0000012209-00	1/11/2004	Final	766.38	766.38	0.00
011-0000012210-00	1/11/2004	Final	300.00	300.00	0.00
011-0000012211-00	1/11/2004	Final	55.95	55.95	0.00
011-0000012212-00	1/11/2004	Final	256.27	256.27	0.00
011-0000012214-00	1/11/2004	Open	800.00	0.00	800.00
011-0000012215-00	1/9/2004	Final	3,940.00	3,940.00	0.00
011-0000012216-00	1/9/2004	Final	1,314.43	1,314.43	0.00
011-0000012217-00	1/11/2004	Final	3,145.20	3,145.20	0.00
011-0000012218-00	1/11/2004	Final	592.17	592.17	0.00
011-0000012219-00	1/11/2004	Final	976.87	976.87	0.00
011-0000012220-00	1/11/2004	Final	359.33	359.33	0.00
011-0000012221-00	1/11/2004	Open	200.00	0.00	200.00
011-0000012222-00	1/11/2004	Final	98.80	98.80	0.00
011-0000012223-00	1/11/2004	Final	226.45	226.45	0.00
011-0000012224-00	1/11/2004	Open	800.00	0.00	800.00
011-0000012225-00	1/11/2004	Final	113.29	113.29	0.00
011-0000012226-00	1/11/2004	Final	417.08	417.08	0.00
011-0000012227-00	1/11/2004	Final	126.47	126.47	0.00
011-0000012228-00	1/11/2004	Final	401.01	401.01	0.00
011-0000012229-00	1/11/2004	Final	313.74	313.74	0.00
011-0000012230-00	1/11/2004	Final	137.48	137.48	0.00
011-0000012231-00	1/3/2004	Final	480.00	480.00	0.00
011-0000012232-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012233-00	1/2/2004	Final	40.63	40.63	0.00
011-0000012234-00	1/12/2004	Final	490.00	490.00	0.00
011-0000012235-00	1/11/2004	Final	834.42	834.42	0.00
011-0000012236-00	1/11/2004	Open	500.00	0.00	500.00

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ursuant to Rule No. 16
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	Loss Date	Status	Incurred Total	Paid Total	Outstanding
0	1/2/2004	Final	0.00	0.00	0.00
0	1/11/2004	Final	348.94	348.94	0.00
0	1/11/2004	Final	108.77	108.77	0.00
0	1/11/2004	Final	332.80	332.80	0.00
0	1/11/2004	Final	951.04	951.04	0.00
0	1/11/2004	Final	200.00	200.00	0.00
0	1/11/2004	Final	1,106.44	1,106.44	0.00
0	1/11/2004	Final	469.71	469.71	0.00
0	1/2/2004	Final	210.00	210.00	0.00
0	1/13/2004	Open	1,000.00	0.00	1,000.00
0	1/11/2004	Final	433.32	433.32	0.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/2/2004	Final	437.86	437.86	0.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/11/2004	Final	65.00	65.00	0.00
0	1/11/2004	Final	336.44	336.44	0.00
0	1/11/2004	Final	104.00	104.00	0.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/22/2004	Final	0.00	0.00	0.00
0	1/11/2004	Final	212.82	212.82	0.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/11/2004	Final	0.00	0.00	0.00
0	1/2/2004	Open	40.00	0.00	40.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/14/2004	Final	0.00	0.00	0.00
0	1/14/2004	Final	1,786.75	1,786.75	0.00
0	1/2/2004	Final	0.00	0.00	0.00
0	1/11/2004	Final	293.74	293.74	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012271-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012272-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012273-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012274-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012275-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012276-00	1/11/2004	Final	200.00	200.00	0.00
011-0000012277-00	1/14/2004	Final	2,003.53	2,003.53	0.00
011-0000012278-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012279-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012280-00	1/11/2004	Open	1,000.00	0.00	1,000.00
011-0000012282-00	1/11/2004	Final	7,800.45	7,800.45	0.00
011-0000012283-00	1/11/2004	Open	400.00	0.00	400.00
011-0000012284-00	1/11/2004	Final	41.66	41.66	0.00
011-0000012285-00	1/11/2004	Final	0.00	0.00	0.00
011-0000012286-00	1/2/2004	Final	80.00	80.00	0.00
011-0000012287-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012288-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012289-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012290-00	1/14/2004	Final	798.47	798.47	0.00
011-0000012291-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012292-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012293-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012294-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012295-00	1/11/2004	Open	600.00	0.00	600.00
011-0000012296-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012297-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012298-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012299-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012300-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012301-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012302-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012303-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012304-00	1/14/2004	Final	1,503.00	1,503.00	0.00
011-0000012305-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012306-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012307-00	1/14/2004	Final	1,170.70	1,170.70	0.00
011-0000012308-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012309-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012310-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012311-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012312-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012313-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012314-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012315-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012316-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012317-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012318-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012319-00	1/14/2004	Final	569.53	569.53	0.00
011-0000012320-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012321-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012322-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012323-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012324-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012325-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012326-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012327-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012328-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012329-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012330-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012331-00	1/11/2004	Final	627.12	627.12	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012332-00	1/11/2004	Final	83.33	83.33	0.00
011-0000012333-00	1/11/2004	Final	162.84	162.84	0.00
011-0000012334-00	1/2/2004	Final	80.00	80.00	0.00
011-0000012335-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012336-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012337-00	1/11/2004	Final	29.10	29.10	0.00
011-0000012338-00	1/11/2004	Final	993.30	993.30	0.00
011-0000012339-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012340-00	1/11/2004	Final	147.50	147.50	0.00
011-0000012341-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012342-00	1/14/2004	Open	22,865.63	365.63	22,500.00
011-0000012343-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012344-00	1/14/2004	Open	500.00	0.00	500.00
011-0000012345-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012346-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012347-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012348-00	1/11/2004	Final	87.17	87.17	0.00
011-0000012349-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012350-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012351-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012352-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012354-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012355-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012356-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012357-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012358-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012359-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012360-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012361-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012362-00	1/14/2004	Final	0.00	0.00	0.00

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ber	Loss Date	Status	Incurred Total	Paid Total	Outstanding
: 2004					
12363-00	1/14/2004	Final	0.00	0.00	0.00
12364-00	1/14/2004	Final	0.00	0.00	0.00
12365-00	1/14/2004	Final	0.00	0.00	0.00
12366-00	1/14/2004	Final	0.00	0.00	0.00
12367-00	1/14/2004	Final	0.00	0.00	0.00
12368-00	1/14/2004	Final	0.00	0.00	0.00
12369-00	1/11/2004	Final	527.57	527.57	0.00
12370-00	1/14/2004	Open	1,000.00	0.00	1,000.00
12371-00	1/14/2004	Final	0.00	0.00	0.00
12372-00	1/14/2004	Final	0.00	0.00	0.00
12373-00	1/14/2004	Final	0.00	0.00	0.00
12374-00	1/18/2004	Final	3,960.75	3,960.75	0.00
12375-00	1/14/2004	Final	0.00	0.00	0.00
12376-00	1/11/2004	Final	0.00	0.00	0.00
12377-00	1/11/2004	Final	225.59	225.59	0.00
12378-00	1/14/2004	Final	0.00	0.00	0.00
12379-00	1/14/2004	Final	389.88	389.88	0.00
12380-00	1/14/2004	Final	0.00	0.00	0.00
12382-00	1/14/2004	Final	0.00	0.00	0.00
12383-00	1/14/2004	Open	1,000.00	0.00	1,000.00
12384-00	1/14/2004	Final	0.00	0.00	0.00
12385-00	1/11/2004	Final	289.94	289.94	0.00
12386-00	1/14/2004	Final	0.00	0.00	0.00
12387-00	1/14/2004	Final	0.00	0.00	0.00
12388-00	1/14/2004	Final	0.00	0.00	0.00
12389-00	1/14/2004	Final	0.00	0.00	0.00
12390-00	1/14/2004	Final	0.00	0.00	0.00
12391-00	1/19/2004	Final	468.00	468.00	0.00
12392-00	1/14/2004	Final	0.00	0.00	0.00
12393-00	1/12/2004	Final	490.00	490.00	0.00

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012394-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012395-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012396-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012397-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012398-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012399-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012400-00	1/14/2004	Final	125.00	125.00	0.00
011-0000012401-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012402-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012403-00	1/11/2004	Final	598.79	598.79	0.00
011-0000012404-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012406-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012408-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012409-00	1/18/2004	Final	50.00	50.00	0.00
011-0000012410-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012411-00	1/16/2004	Final	0.00	0.00	0.00
011-0000012412-00	1/12/2004	Final	0.00	0.00	0.00
011-0000012413-00	1/14/2004	Final	707.73	707.73	0.00
011-0000012414-00	1/11/2004	Final	3,422.89	3,422.89	0.00
011-0000012415-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012416-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012417-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012418-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012419-00	1/18/2004	Final	266.93	266.93	0.00
011-0000012420-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012421-00	1/20/2004	Final	2,124.75	2,124.75	0.00
011-0000012422-00	1/13/2004	Final	0.00	0.00	0.00
011-0000012423-00	1/15/2004	Open	300.00	0.00	300.00
011-0000012424-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012426-00	1/11/2004	Final	915.57	915.57	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012427-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012428-00	1/11/2004	Final	424.47	424.47	0.00
011-0000012429-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012430-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012431-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012432-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012433-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012434-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012435-00	1/14/2004	Final	411.93	411.93	0.00
011-0000012436-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012437-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012438-00	1/2/2004	Final	257.46	257.46	0.00
011-0000012440-00	1/11/2004	Final	190.30	190.30	0.00
011-0000012441-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012442-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012443-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012444-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012445-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012446-00	1/11/2004	Final	185.00	185.00	0.00
011-0000012447-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012448-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012449-00	1/11/2004	Open	500.00	0.00	500.00
011-0000012450-00	1/11/2004	Final	218.31	218.31	0.00
011-0000012451-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012452-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012453-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012454-00	1/12/2004	Final	0.00	0.00	0.00
011-0000012455-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012456-00	1/5/2004	Final	345.00	345.00	0.00
011-0000012457-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012458-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012459-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012460-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012461-00	1/11/2004	Final	156.00	156.00	0.00
011-0000012462-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012464-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012465-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012466-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012467-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012470-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012471-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012472-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012473-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012475-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012476-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012477-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012478-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012479-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012480-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012481-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012482-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012483-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012484-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012486-00	1/15/2004	Open	1,000.00	0.00	1,000.00
011-0000012487-00	1/10/2004	Final	20.82	20.82	0.00
011-0000012488-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012489-00	1/9/2004	Final	0.00	0.00	0.00
011-0000012490-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012491-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012492-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012493-00	1/12/2004	Final	268.81	268.81	0.00
011-0000012494-00	1/19/2004	Final	83.32	83.32	0.00
011-0000012495-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012496-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012497-00	1/11/2004	Final	126.47	126.47	0.00
011-0000012498-00	1/2/2004	Final	74.86	74.86	0.00
011-0000012499-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012500-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012501-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012502-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012503-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012504-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012505-00	1/16/2004	Final	0.00	0.00	0.00
011-0000012508-00	1/21/2004	Final	765.16	765.16	0.00
011-0000012509-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012510-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012511-00	1/13/2004	Final	1,468.50	1,468.50	0.00
011-0000012512-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012513-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012514-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012515-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012516-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012517-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012518-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012519-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012520-00	1/14/2004	Final	500.00	500.00	0.00
011-0000012521-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012522-00	1/13/2004	Final	0.00	0.00	0.00
011-0000012523-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012524-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012525-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012526-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012527-00	1/20/2004	Final	0.00	0.00	0.00
011-0000012528-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012529-00	1/11/2004	Final	0.00	0.00	0.00
011-0000012530-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012531-00	1/11/2004	Final	309.08	309.08	0.00
011-0000012532-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012533-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012534-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012535-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012536-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012537-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012538-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012539-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012540-00	1/21/2004	Final	469.89	469.89	0.00
011-0000012541-00	1/23/2004	Open	200.00	0.00	200.00
011-0000012542-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012543-00	1/11/2004	Final	732.29	732.29	0.00
011-0000012544-00	1/11/2004	Final	210.67	210.67	0.00
011-0000012545-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012546-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012547-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012548-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012549-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012550-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012551-00	1/14/2004	Final	1,552.91	1,552.91	0.00
011-0000012552-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012553-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012554-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012555-00	1/18/2004	Final	0.00	0.00	0.00
011-0000012556-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012557-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012558-00	1/16/2004	Final	436.43	436.43	0.00
011-0000012559-00	1/14/2004	Final	123.96	123.96	0.00
011-0000012560-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012561-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012562-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012563-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012564-00	1/11/2004	Final	713.09	713.09	0.00
011-0000012565-00	1/11/2004	Final	294.25	294.25	0.00
011-0000012566-00	1/22/2004	Open	500.00	0.00	500.00
011-0000012567-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012568-00	1/14/2004	Open	1,000.00	0.00	1,000.00
011-0000012569-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012570-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012571-00	1/15/2004	Final	0.00	0.00	0.00
011-0000012572-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012573-00	1/11/2004	Final	325.85	325.85	0.00
011-0000012574-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012575-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012576-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012577-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012578-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012579-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012580-00	1/5/2004	Open	112.00	0.00	112.00
011-0000012581-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012582-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012583-00	1/13/2004	Final	0.00	0.00	0.00
011-0000012584-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012585-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012586-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012587-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012588-00	1/24/2004	Open	156.24	0.00	156.24
011-0000012589-00	1/23/2004	Final	153.15	153.15	0.00
011-0000012590-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012591-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012592-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012593-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012594-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012595-00	1/22/2004	Final	0.00	0.00	0.00
011-0000012596-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012597-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012598-00	1/19/2004	Final	266.02	266.02	0.00
011-0000012599-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012600-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012601-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012602-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012603-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012604-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012605-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012606-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012607-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012608-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012609-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012610-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012611-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012612-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012613-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012614-00	1/14/2004	Final	232.29	232.29	0.00

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Date	Status	Incurred Total	Paid Total	Outstanding
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	179.99	179.99	0.00
2004	Final	0.00	0.00	0.00
2004	Final	1,052.84	1,052.84	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
004	Final	331.11	331.11	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
2004	Final	233.21	233.21	0.00
2004	Final	0.00	0.00	0.00
004	Final	1,165.77	1,165.77	0.00
2004	Final	0.00	0.00	0.00
2004	Final	75.95	75.95	0.00
004	Final	0.00	0.00	0.00
2004	Final	0.00	0.00	0.00
004	Final	422.90	422.90	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012647-00	1/15/2004	Final	0.00	0.00	0.00
011-0000012648-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012649-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012650-00	1/12/2004	Open	300.00	0.00	300.00
011-0000012651-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012653-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012654-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012655-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012656-00	1/22/2004	Final	0.00	0.00	0.00
011-0000012657-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012658-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012659-00	1/23/2004	Final	0.00	0.00	0.00
011-0000012661-00	1/29/2004	Open	1,000.00	0.00	1,000.00
011-0000012662-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012663-00	1/24/2004	Final	0.00	0.00	0.00
011-0000012666-00	1/29/2004	Final	1,617.07	1,617.07	0.00
011-0000012667-00	1/29/2004	Open	500.00	227.20	272.80
011-0000012668-00	1/29/2004	Final	638.78	638.78	0.00
011-0000012669-00	1/11/2004	Final	477.76	477.76	0.00
011-0000012670-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012671-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012672-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012673-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012674-00	1/11/2004	Final	1,161.79	1,161.79	0.00
011-0000012675-00	1/19/2004	Final	198.74	198.74	0.00
011-0000012676-00	1/2/2004	Final	594.11	594.11	0.00
011-0000012678-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012679-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012680-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012681-00	1/14/2004	Open	200.00	0.00	200.00

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mber	Loss Date	Status	Incurred Total	Paid Total	Outstanding
e: 2004					
012682-00	1/11/2004	Final	445.44	445.44	0.00
012684-00	1/22/2004	Final	0.00	0.00	0.00
012685-00	1/30/2004	Final	0.00	0.00	0.00
012686-00	1/14/2004	Final	0.00	0.00	0.00
012687-00	1/9/2004	Final	395.90	395.90	0.00
012688-00	1/14/2004	Final	0.00	0.00	0.00
012692-00	1/29/2004	Open	2,000.00	0.00	2,000.00
012693-00	1/29/2004	Open	500.00	0.00	500.00
012694-00	1/29/2004	Open	1,000.00	0.00	1,000.00
012695-00	1/14/2004	Final	0.00	0.00	0.00
012696-00	1/29/2004	Final	279.05	279.05	0.00
012697-00	1/22/2004	Final	0.00	0.00	0.00
012698-00	1/14/2004	Final	0.00	0.00	0.00
012699-00	1/11/2004	Final	156.59	156.59	0.00
012700-00	1/14/2004	Final	0.00	0.00	0.00
012701-00	1/14/2004	Final	0.00	0.00	0.00
012702-00	1/11/2004	Final	215.00	215.00	0.00
012703-00	1/14/2004	Final	0.00	0.00	0.00
012704-00	1/15/2004	Final	16.00	16.00	0.00
012705-00	1/14/2004	Final	0.00	0.00	0.00
012706-00	1/14/2004	Final	0.00	0.00	0.00
012707-00	1/14/2004	Final	0.00	0.00	0.00
012708-00	1/14/2004	Final	0.00	0.00	0.00
012709-00	1/13/2004	Final	0.00	0.00	0.00
012710-00	1/14/2004	Final	0.00	0.00	0.00
012711-00	1/2/2004	Final	270.68	270.68	0.00
012712-00	1/25/2004	Final	0.00	0.00	0.00
012713-00	1/24/2004	Final	658.03	658.03	0.00
012714-00	1/14/2004	Final	0.00	0.00	0.00
012715-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012717-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012718-00	1/11/2004	Final	506.61	506.61	0.00
011-0000012719-00	1/5/2004	Final	0.00	0.00	0.00
011-0000012720-00	2/1/2004	Final	415.33	415.33	0.00
011-0000012721-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012722-00	1/1/2004	Final	0.00	0.00	0.00
011-0000012723-00	1/11/2004	Open	120.00	0.00	120.00
011-0000012724-00	1/13/2004	Final	0.00	0.00	0.00
011-0000012725-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012726-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012727-00	1/24/2004	Final	0.00	0.00	0.00
011-0000012728-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012729-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012730-00	1/11/2004	Final	0.00	0.00	0.00
011-0000012731-00	1/22/2004	Final	0.00	0.00	0.00
011-0000012732-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012733-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012734-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012735-00	1/21/2004	Final	341.12	341.12	0.00
011-0000012736-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012737-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012738-00	1/11/2004	Final	50.00	50.00	0.00
011-0000012739-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012740-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012741-00	2/3/2004	Final	3,780.85	3,780.85	0.00
011-0000012742-00	1/22/2004	Final	0.00	0.00	0.00
011-0000012743-00	1/30/2004	Final	346.44	346.44	0.00
011-0000012744-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012745-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012746-00	1/18/2004	Final	169.33	169.33	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012747-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012748-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012749-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012750-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012751-00	1/5/2004	Final	387.71	387.71	0.00
011-0000012752-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012753-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012754-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012755-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012756-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012757-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012760-00	2/4/2004	Final	1,342.00	1,342.00	0.00
011-0000012761-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012762-00	1/15/2004	Final	0.00	0.00	0.00
011-0000012763-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012764-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012765-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012766-00	1/15/2004	Final	0.00	0.00	0.00
011-0000012767-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012768-00	1/14/2004	Final	221.89	221.89	0.00
011-0000012769-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012770-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012771-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012772-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012773-00	1/11/2004	Final	3,873.96	3,873.96	0.00
011-0000012774-00	2/4/2004	Final	0.00	0.00	0.00
011-0000012775-00	1/6/2004	Open	564.55	180.12	384.43
011-0000012777-00	1/8/2004	Final	0.00	0.00	0.00
011-0000012778-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012779-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012780-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012781-00	1/11/2004	Final	1,454.53	1,454.53	0.00
011-0000012782-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012783-00	1/29/2004	Final	122.72	122.72	0.00
011-0000012784-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012785-00	1/7/2004	Open	750.00	0.00	750.00
011-0000012786-00	1/29/2004	Final	0.00	0.00	0.00
011-0000012787-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012788-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012789-00	1/11/2004	Open	150.00	0.00	150.00
011-0000012791-00	1/14/2004	Final	483.60	483.60	0.00
011-0000012792-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012793-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012794-00	1/11/2004	Final	627.08	627.08	0.00
011-0000012795-00	1/11/2004	Final	55.00	55.00	0.00
011-0000012796-00	2/4/2004	Final	0.00	0.00	0.00
011-0000012797-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012798-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012802-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012803-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012804-00	1/11/2004	Final	605.31	605.31	0.00
011-0000012805-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012806-00	1/11/2004	Final	117.76	117.76	0.00
011-0000012807-00	2/1/2004	Final	0.00	0.00	0.00
011-0000012808-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012809-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012810-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012811-00	1/19/2004	Open	200.00	0.00	200.00
011-0000012812-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012813-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012814-00	1/11/2004	Final	0.00	0.00	0.00
011-0000012815-00	1/2/2004	Final	125.00	125.00	0.00
011-0000012816-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012817-00	1/31/2004	Final	0.00	0.00	0.00
011-0000012818-00	2/2/2004	Final	0.00	0.00	0.00
011-0000012820-00	1/11/2004	Final	1,103.40	1,103.40	0.00
011-0000012821-00	1/11/2004	Open	500.00	0.00	500.00
011-0000012822-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012823-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012824-00	1/24/2004	Final	0.00	0.00	0.00
011-0000012825-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012826-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012827-00	2/3/2004	Final	105.00	105.00	0.00
011-0000012828-00	1/23/2004	Final	0.00	0.00	0.00
011-0000012829-00	1/29/2004	Final	100.00	100.00	0.00
011-0000012830-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012832-00	1/18/2004	Final	0.00	0.00	0.00
011-0000012833-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012834-00	2/3/2004	Final	0.00	0.00	0.00
011-0000012835-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012836-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012837-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012838-00	1/22/2004	Final	1,087.40	1,087.40	0.00
011-0000012839-00	1/11/2004	Open	1,901.90	0.00	1,901.90
011-0000012840-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012841-00	1/23/2004	Open	200.00	0.00	200.00
011-0000012842-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012843-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012844-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012845-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012847-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012848-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012850-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012851-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012852-00	1/11/2004	Final	210.00	210.00	0.00
011-0000012853-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012854-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012855-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012856-00	1/29/2004	Final	93.75	93.75	0.00
011-0000012857-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012858-00	1/14/2004	Final	3,304.47	3,304.47	0.00
011-0000012859-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012860-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012861-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012862-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012863-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012864-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012865-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012866-00	1/23/2004	Final	0.00	0.00	0.00
011-0000012867-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012868-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012870-00	1/1/2004	Final	0.00	0.00	0.00
011-0000012871-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012872-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012874-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012875-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012876-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012877-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012878-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012879-00	1/30/2004	Final	58.74	58.74	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012880-00	2/9/2004	Final	1,179.17	1,179.17	0.00
011-0000012881-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012882-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012883-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012884-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012886-00	2/10/2004	Open	208.00	0.00	208.00
011-0000012887-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012888-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012889-00	1/14/2004	Final	218.00	218.00	0.00
011-0000012890-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012891-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012892-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012893-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012894-00	1/11/2004	Final	654.87	654.87	0.00
011-0000012895-00	1/22/2004	Final	925.00	925.00	0.00
011-0000012896-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012897-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012898-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012899-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012900-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012901-00	1/22/2004	Final	0.00	0.00	0.00
011-0000012902-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012903-00	1/24/2004	Final	335.00	335.00	0.00
011-0000012904-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012905-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012906-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012908-00	1/8/2004	Final	0.00	0.00	0.00
011-0000012909-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012910-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012911-00	1/14/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012912-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012913-00	1/8/2004	Final	0.00	0.00	0.00
011-0000012914-00	1/4/2004	Final	0.00	0.00	0.00
011-0000012915-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012916-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012917-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012918-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012919-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012920-00	1/18/2004	Final	0.00	0.00	0.00
011-0000012921-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012922-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012924-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012926-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012927-00	1/16/2004	Final	0.00	0.00	0.00
011-0000012928-00	1/14/2004	Open	215.95	0.00	215.95
011-0000012929-00	1/13/2004	Final	0.00	0.00	0.00
011-0000012930-00	1/15/2004	Final	0.00	0.00	0.00
011-0000012931-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012932-00	1/31/2004	Final	420.12	420.12	0.00
011-0000012933-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012934-00	2/8/2004	Final	195.88	195.88	0.00
011-0000012936-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012937-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012938-00	1/2/2004	Final	0.00	0.00	0.00
011-0000012939-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012940-00	1/19/2004	Final	194.78	194.78	0.00
011-0000012941-00	1/22/2004	Final	0.00	0.00	0.00
011-0000012942-00	1/29/2004	Final	0.00	0.00	0.00
011-0000012943-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012944-00	2/17/2004	Open	1,000.00	0.00	1,000.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000012945-00	1/9/2004	Final	820.00	820.00	0.00
011-0000012946-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012947-00	2/19/2004	Final	50.00	50.00	0.00
011-0000012948-00	1/14/2004	Final	278.02	278.02	0.00
011-0000012949-00	2/20/2004	Final	0.00	0.00	0.00
011-0000012950-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012951-00	1/23/2004	Final	0.00	0.00	0.00
011-0000012952-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012953-00	1/15/2004	Final	0.00	0.00	0.00
011-0000012954-00	2/15/2004	Final	0.00	0.00	0.00
011-0000012955-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012956-00	1/11/2004	Open	185.00	0.00	185.00
011-0000012957-00	1/23/2004	Open	500.00	0.00	500.00
011-0000012958-00	2/18/2004	Final	309.90	309.90	0.00
011-0000012959-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012960-00	2/17/2004	Final	0.00	0.00	0.00
011-0000012961-00	1/29/2004	Final	2,492.14	2,492.14	0.00
011-0000012964-00	2/1/2004	Final	0.00	0.00	0.00
011-0000012965-00	2/12/2004	Final	0.00	0.00	0.00
011-0000012966-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012967-00	1/29/2004	Final	145.66	145.66	0.00
011-0000012968-00	1/24/2004	Final	0.00	0.00	0.00
011-0000012969-00	1/14/2004	Final	0.00	0.00	0.00
011-0000012970-00	2/19/2004	Open	1,500.00	0.00	1,500.00
011-0000012971-00	1/28/2004	Open	500.00	0.00	500.00
011-0000012972-00	2/24/2004	Final	0.00	0.00	0.00
011-0000012974-00	1/24/2004	Open	100.00	0.00	100.00
011-0000012975-00	2/25/2004	Final	0.00	0.00	0.00
011-0000012976-00	2/12/2004	Final	606.42	606.42	0.00
011-0000012977-00	2/19/2004	Open	500.00	0.00	500.00

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oss Date	Status	Incurred Total	Paid Total	Outstanding
/26/2004	Final	0.00	0.00	0.00
/2/2004	Open	150.00	0.00	150.00
/26/2004	Final	0.00	0.00	0.00
/26/2004	Final	0.00	0.00	0.00
/27/2004	Final	327.00	327.00	0.00
/27/2004	Final	0.00	0.00	0.00
/28/2004	Final	433.75	433.75	0.00
/29/2004	Final	885.99	885.99	0.00
/27/2004	Final	0.00	0.00	0.00
/14/2004	Final	0.00	0.00	0.00
/28/2004	Final	2,795.59	2,795.59	0.00
/27/2004	Open	500.00	0.00	500.00
/26/2004	Open	500.00	0.00	500.00
/6/2004	Open	500.00	0.00	500.00
/25/2004	Final	0.00	0.00	0.00
/26/2004	Open	600.00	0.00	600.00
/27/2004	Final	1,383.32	1,383.32	0.00
29/2004	Final	225.07	225.07	0.00
28/2004	Open	200.00	0.00	200.00
27/2004	Final	0.00	0.00	0.00
1/2004	Open	9,000.00	0.00	9,000.00
26/2004	Final	0.00	0.00	0.00
26/2004	Final	0.00	0.00	0.00
26/2004	Final	0.00	0.00	0.00
26/2004	Final	0.00	0.00	0.00
26/2004	Final	0.00	0.00	0.00
26/2004	Final	0.00	0.00	0.00
3/2004	Final	0.00	0.00	0.00
14/2004	Final	0.00	0.00	0.00
3/2004	Final	1,000.00	1,000.00	0.00

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Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Date: 2004					
0000013011-00	1/14/2004	Final	0.00	0.00	0.00
0000013012-00	1/29/2004	Final	0.00	0.00	0.00
0000013013-00	2/26/2004	Final	0.00	0.00	0.00
0000013014-00	2/18/2004	Final	39.99	39.99	0.00
0000013015-00	2/26/2004	Final	0.00	0.00	0.00
0000013016-00	2/26/2004	Final	0.00	0.00	0.00
0000013017-00	2/26/2004	Final	0.00	0.00	0.00
0000013018-00	3/3/2004	Final	0.00	0.00	0.00
0000013019-00	3/3/2004	Final	0.00	0.00	0.00
0000013020-00	3/3/2004	Final	0.00	0.00	0.00
0000013022-00	3/1/2004	Final	0.00	0.00	0.00
0000013023-00	2/27/2004	Final	398.32	398.32	0.00
0000013024-00	3/3/2004	Final	0.00	0.00	0.00
0000013025-00	2/26/2004	Final	0.00	0.00	0.00
0000013026-00	2/4/2004	Final	0.00	0.00	0.00
0000013027-00	2/26/2004	Final	0.00	0.00	0.00
0000013028-00	2/26/2004	Final	0.00	0.00	0.00
0000013029-00	2/27/2004	Final	0.00	0.00	0.00
0000013030-00	2/26/2004	Final	0.00	0.00	0.00
0000013031-00	2/26/2004	Final	0.00	0.00	0.00
0000013032-00	3/5/2004	Final	171.88	171.88	0.00
0000013033-00	2/27/2004	Final	0.00	0.00	0.00
0000013034-00	3/6/2004	Open	800.00	0.00	800.00
0000013035-00	2/20/2004	Final	0.00	0.00	0.00
0000013036-00	1/14/2004	Final	585.99	585.99	0.00
0000013037-00	3/8/2004	Final	0.00	0.00	0.00
0000013038-00	2/1/2004	Final	0.00	0.00	0.00
0000013039-00	3/8/2004	Final	0.00	0.00	0.00
0000013040-00	2/26/2004	Final	0.00	0.00	0.00
0000013041-00	3/8/2004	Final	468.00	468.00	0.00

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Loss Date: 2004					
011-0000013042-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013043-00	2/26/2004	Final	0.00	0.00	0.00
011-0000013044-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013045-00	2/26/2004	Final	0.00	0.00	0.00
011-0000013046-00	3/8/2004	Final	9,886.00	9,886.00	0.00
011-0000013047-00	3/5/2004	Open	200.00	0.00	200.00
011-0000013048-00	2/27/2004	Open	585.00	0.00	585.00
011-0000013054-00	3/8/2004	Final	720.00	720.00	0.00
011-0000013055-00	3/4/2004	Final	0.00	0.00	0.00
011-0000013056-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013057-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013058-00	2/27/2004	Final	0.00	0.00	0.00
011-0000013061-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013064-00	2/9/2004	Final	0.00	0.00	0.00
011-0000013065-00	2/29/2004	Open	68.75	0.00	68.75
011-0000013066-00	2/27/2004	Final	0.00	0.00	0.00
011-0000013067-00	2/18/2004	Final	0.00	0.00	0.00
011-0000013068-00	2/26/2004	Final	0.00	0.00	0.00
011-0000013069-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013070-00	3/1/2004	Final	0.00	0.00	0.00
011-0000013071-00	3/8/2004	Final	805.00	805.00	0.00
011-0000013072-00	3/2/2004	Final	467.26	467.26	0.00
011-0000013073-00	3/3/2004	Final	1,872.03	1,872.03	0.00
011-0000013074-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013075-00	2/27/2004	Final	0.00	0.00	0.00
011-0000013076-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013079-00	3/16/2004	Final	0.00	0.00	0.00
011-0000013080-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013081-00	2/28/2004	Final	158.02	158.02	0.00
011-0000013082-00	3/8/2004	Final	0.00	0.00	0.00

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Loss Date: 2004					
011-0000013083-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013084-00	2/26/2004	Final	0.00	0.00	0.00
011-0000013085-00	2/29/2004	Final	0.00	0.00	0.00
011-0000013086-00	2/26/2004	Final	0.00	0.00	0.00
011-0000013087-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013088-00	2/20/2004	Final	516.15	516.15	0.00
011-0000013089-00	2/25/2004	Final	4,183.00	4,183.00	0.00
011-0000013090-00	3/11/2004	Final	0.00	0.00	0.00
011-0000013091-00	1/22/2004	Final	1,346.09	1,346.09	0.00
011-0000013092-00	2/16/2004	Final	0.00	0.00	0.00
011-0000013097-00	1/29/2004	Final	0.00	0.00	0.00
011-0000013098-00	3/18/2004	Final	1,452.83	1,452.83	0.00
011-0000013099-00	3/17/2004	Open	1,000.00	0.00	1,000.00
011-0000013100-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013101-00	2/7/2004	Final	0.00	0.00	0.00
011-0000013102-00	3/13/2004	Final	0.00	0.00	0.00
011-0000013103-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013104-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013120-00	3/3/2004	Final	64.52	64.52	0.00
011-0000013122-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013131-00	2/19/2004	Final	1,370.63	1,370.63	0.00
011-0000013132-00	3/15/2004	Final	0.00	0.00	0.00
011-0000013133-00	3/28/2004	Final	1,097.70	1,097.70	0.00
011-0000013134-00	3/1/2004	Open	220.00	0.00	220.00
011-0000013135-00	2/27/2004	Final	0.00	0.00	0.00
011-0000013140-00	3/26/2004	Final	121.42	121.42	0.00
011-0000013141-00	3/6/2004	Final	0.00	0.00	0.00
011-0000013142-00	3/22/2004	Final	0.00	0.00	0.00
011-0000013143-00	3/25/2004	Final	0.00	0.00	0.00
011-0000013144-00	3/10/2004	Final	1,718.50	1,718.50	0.00

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Loss Date: 2004					
011-0000013145-00	3/14/2004	Final	0.00	0.00	0.00
011-0000013146-00	3/30/2004	Open	300.00	0.00	300.00
011-0000013147-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013148-00	3/22/2004	Final	56.00	56.00	0.00
011-0000013149-00	3/29/2004	Final	6,047.20	6,047.20	0.00
011-0000013150-00	3/10/2004	Final	0.00	0.00	0.00
011-0000013152-00	3/30/2004	Final	258.31	258.31	0.00
011-0000013157-00	3/24/2004	Final	909.95	909.95	0.00
011-0000013158-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013159-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013160-00	3/29/2004	Final	141.09	141.09	0.00
011-0000013161-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013162-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013163-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013164-00	1/14/2004	Final	1,340.73	1,340.73	0.00
011-0000013165-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013166-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013167-00	1/14/2004	Final	68.75	68.75	0.00
011-0000013168-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013169-00	3/29/2004	Final	0.00	0.00	0.00
011-0000013170-00	3/3/2004	Final	0.00	0.00	0.00
011-0000013171-00	3/21/2004	Final	342.12	342.12	0.00
011-0000013172-00	3/30/2004	Final	0.00	0.00	0.00
011-0000013173-00	3/23/2004	Open	500.00	0.00	500.00
011-0000013179-00	2/26/2004	Final	0.00	0.00	0.00
011-0000013180-00	3/29/2004	Final	58.26	58.26	0.00
011-0000013181-00	4/1/2004	Final	0.00	0.00	0.00
011-0000013182-00	4/5/2004	Final	0.00	0.00	0.00
011-0000013184-00	1/13/2004	Final	0.00	0.00	0.00
011-0000013185-00	3/8/2004	Final	0.00	0.00	0.00

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Loss Date: 2004					
011-0000013186-00	4/6/2004	Final	0.00	0.00	0.00
011-0000013187-00	4/9/2004	Final	0.00	0.00	0.00
011-0000013188-00	4/3/2004	Open	478.00	0.00	478.00
011-0000013189-00	4/6/2004	Final	0.00	0.00	0.00
011-0000013190-00	4/6/2004	Final	0.00	0.00	0.00
011-0000013191-00	3/29/2004	Final	692.72	692.72	0.00
011-0000013193-00	4/9/2004	Open	300.00	0.00	300.00
011-0000013194-00	4/9/2004	Open	1,000.00	0.00	1,000.00
011-0000013199-00	1/31/2004	Final	0.00	0.00	0.00
011-0000013200-00	2/28/2004	Final	984.05	984.05	0.00
011-0000013203-00	4/12/2004	Open	300.00	0.00	300.00
011-0000013204-00	4/13/2004	Final	0.00	0.00	0.00
011-0000013205-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013206-00	4/11/2004	Final	1,641.72	1,641.72	0.00
011-0000013207-00	3/27/2004	Final	1,374.06	1,374.06	0.00
011-0000013208-00	4/5/2004	Open	449.48	0.00	449.48
011-0000013209-00	4/14/2004	Final	240.00	240.00	0.00
011-0000013210-00	4/15/2004	Final	0.00	0.00	0.00
011-0000013211-00	4/5/2004	Final	0.00	0.00	0.00
011-0000013212-00	3/8/2004	Final	0.00	0.00	0.00
011-0000013213-00	3/29/2004	Open	400.00	0.00	400.00
011-0000013216-00	4/12/2004	Final	0.00	0.00	0.00
011-0000013217-00	4/18/2004	Final	0.00	0.00	0.00
011-0000013218-00	3/27/2004	Final	310.72	310.72	0.00
011-0000013219-00	4/6/2004	Final	400.00	400.00	0.00
011-0000013221-00	4/14/2004	Open	1,000.00	0.00	1,000.00
011-0000013222-00	1/22/2004	Final	2,247.91	2,247.91	0.00
011-0000013223-00	4/17/2004	Final	0.00	0.00	0.00
011-0000013224-00	4/18/2004	Open	500.00	0.00	500.00
011-0000013231-00	4/22/2004	Final	0.00	0.00	0.00

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Loss Date: 2004					
011-0000013232-00	4/22/2004	Final	0.00	0.00	0.00
011-0000013234-00	4/6/2004	Final	0.00	0.00	0.00
011-0000013235-00	4/20/2004	Final	116.63	116.63	0.00
011-0000013236-00	3/30/2004	Final	131.10	131.10	0.00
011-0000013237-00	4/26/2004	Final	0.00	0.00	0.00
011-0000013240-00	4/20/2004	Open	500.00	0.00	500.00
011-0000013242-00	4/12/2004	Final	1,225.00	1,225.00	0.00
011-0000013244-00	3/27/2004	Final	290.00	290.00	0.00
011-0000013246-00	5/2/2004	Final	0.00	0.00	0.00
011-0000013247-00	4/23/2004	Open	650.00	0.00	650.00
011-0000013248-00	4/1/2004	Final	0.00	0.00	0.00
011-0000013249-00	5/3/2004	Final	1,227.20	1,227.20	0.00
011-0000013250-00	1/10/2004	Final	0.00	0.00	0.00
011-0000013254-00	1/14/2004	Final	0.00	0.00	0.00
011-0000013256-00	5/5/2004	Final	0.00	0.00	0.00
011-0000013257-00	5/4/2004	Final	0.00	0.00	0.00
011-0000013258-00	1/3/2004	Final	0.00	0.00	0.00
011-0000013261-00	5/8/2004	Final	723.54	723.54	0.00
011-0000013262-00	5/7/2004	Final	0.00	0.00	0.00
011-0000013263-00	5/9/2004	Open	1,000.00	0.00	1,000.00
011-0000013264-00	5/5/2004	Final	480.36	480.36	0.00
011-0000013266-00	5/8/2004	Final	0.00	0.00	0.00
011-0000013267-00	5/6/2004	Open	1,000.00	0.00	1,000.00
011-0000013268-00	5/7/2004	Final	240.00	240.00	0.00
011-0000013269-00	5/4/2004	Open	40.00	0.00	40.00
011-0000013270-00	5/7/2004	Open	500.00	0.00	500.00
011-0000013271-00	5/11/2004	Final	0.00	0.00	0.00
011-0000013272-00	5/11/2004	Open	2,000.00	862.58	1,137.42
011-0000013273-00	5/11/2004	Open	2,000.00	0.00	2,000.00
011-0000013275-00	5/2/2004	Final	0.00	0.00	0.00

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Loss Date: 2004					
011-0000013276-00	5/14/2004	Final	163.40	163.40	0.00
011-0000013277-00	5/16/2004	Final	5,020.21	5,020.21	0.00
011-0000013278-00	5/16/2004	Final	1,652.56	1,652.56	0.00
011-0000013280-00	5/17/2004	Final	135.77	135.77	0.00
011-0000013282-00	5/1/2004	Final	0.00	0.00	0.00
011-0000013283-00	5/17/2004	Final	598.92	598.92	0.00
011-0000013284-00	5/16/2004	Open	300.00	0.00	300.00
011-0000013285-00	5/17/2004	Final	72.97	72.97	0.00
011-0000013286-00	5/17/2004	Final	386.95	386.95	0.00
011-0000013287-00	5/18/2004	Final	394.13	394.13	0.00
011-0000013288-00	3/5/2004	Final	2,061.00	2,061.00	0.00
011-0000013289-00	5/6/2004	Final	432.49	432.49	0.00
011-0000013290-00	5/17/2004	Final	50.00	50.00	0.00
011-0000013291-00	5/17/2004	Final	171.37	171.37	0.00
011-0000013292-00	5/17/2004	Final	127.77	127.77	0.00
011-0000013293-00	5/21/2004	Final	0.00	0.00	0.00
011-0000013294-00	5/17/2004	Final	208.33	208.33	0.00
011-0000013295-00	5/17/2004	Final	49.48	49.48	0.00
011-0000013296-00	5/15/2004	Final	0.00	0.00	0.00
011-0000013297-00	5/21/2004	Open	500.00	0.00	500.00
011-0000013298-00	5/17/2004	Final	207.29	207.29	0.00
011-0000013300-00	5/22/2004	Final	0.00	0.00	0.00
011-0000013301-00	5/17/2004	Final	104.00	104.00	0.00
011-0000013302-00	4/8/2004	Final	0.00	0.00	0.00
011-0000013304-00	5/17/2004	Final	1,177.34	1,177.34	0.00
011-0000013306-00	5/19/2004	Final	153.42	153.42	0.00
011-0000013308-00	5/17/2004	Open	500.00	0.00	500.00
011-0000013309-00	5/17/2004	Final	152.81	152.81	0.00
011-0000013310-00	5/25/2004	Final	0.00	0.00	0.00
011-0000013311-00	5/27/2004	Final	499.87	499.87	0.00

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Loss Date: 2004					
011-0000013312-00	5/14/2004	Open	600.00	0.00	600.00
011-0000013313-00	5/25/2004	Open	500.00	0.00	500.00
011-0000013314-00	5/28/2004	Final	529.32	529.32	0.00
011-0000013315-00	5/28/2004	Final	0.00	0.00	0.00
011-0000013316-00	5/17/2004	Final	230.20	230.20	0.00
011-0000013320-00	6/2/2004	Final	246.65	246.65	0.00
011-0000013321-00	6/1/2004	Final	22,265.64	22,265.64	0.00
011-0000013322-00	5/27/2004	Open	500.00	0.00	500.00
011-0000013323-00	5/21/2004	Final	108.00	108.00	0.00
011-0000013324-00	6/2/2004	Open	3,000.00	1,233.00	1,767.00
011-0000013325-00	6/2/2004	Final	167.88	167.88	0.00
011-0000013326-00	6/1/2004	Final	0.00	0.00	0.00
011-0000013327-00	6/2/2004	Final	491.45	491.45	0.00
011-0000013328-00	3/14/2004	Final	0.00	0.00	0.00
011-0000013331-00	5/20/2004	Final	0.00	0.00	0.00
011-0000013332-00	5/17/2004	Final	0.00	0.00	0.00
011-0000013333-00	6/5/2004	Final	3,306.70	3,306.70	0.00
011-0000013334-00	6/5/2004	Open	1,500.00	0.00	1,500.00
011-0000013335-00	6/6/2004	Final	78.00	78.00	0.00
011-0000013336-00	5/17/2004	Open	500.00	0.00	500.00
011-0000013337-00	6/7/2004	Final	570.50	570.50	0.00
011-0000013339-00	5/26/2004	Open	500.00	0.00	500.00
011-0000013340-00	6/7/2004	Open	800.00	0.00	800.00
011-0000013342-00	6/4/2004	Open	1,000.00	0.00	1,000.00
011-0000013343-00	6/8/2004	Final	1,472.47	1,472.47	0.00
011-0000013344-00	6/6/2004	Final	0.00	0.00	0.00
011-0000013345-00	6/5/2004	Final	0.00	0.00	0.00
011-0000013346-00	6/5/2004	Final	0.00	0.00	0.00
011-0000013347-00	4/14/2004	Final	0.00	0.00	0.00
011-0000013351-00	6/9/2004	Final	1,870.60	1,870.60	0.00

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Loss Date: 2004					
011-0000013352-00	6/10/2004	Open	200.00	0.00	200.00
011-0000013353-00	6/4/2004	Open	700.00	0.00	700.00
011-0000013354-00	5/17/2004	Open	100.00	0.00	100.00
011-0000013355-00	5/17/2004	Final	567.70	567.70	0.00
011-0000013356-00	5/21/2004	Final	50.00	50.00	0.00
011-0000013357-00	5/17/2004	Final	4,506.99	4,506.99	0.00
011-0000013358-00	6/5/2004	Final	0.00	0.00	0.00
011-0000013360-00	6/11/2004	Final	56.80	56.80	0.00
011-0000013361-00	6/15/2004	Final	0.00	0.00	0.00
011-0000013362-00	5/17/2004	Final	130.21	130.21	0.00
011-0000013363-00	6/15/2004	Final	0.00	0.00	0.00
011-0000013364-00	6/16/2004	Final	0.00	0.00	0.00
011-0000013367-00	6/16/2004	Final	0.00	0.00	0.00
011-0000013368-00	6/17/2004	Final	177.07	177.07	0.00
011-0000013369-00	6/20/2004	Open	800.00	0.00	800.00
011-0000013370-00	6/6/2004	Final	40.50	40.50	0.00
011-0000013371-00	6/3/2004	Final	822.16	822.16	0.00
011-0000013372-00	5/7/2004	Final	0.00	0.00	0.00
011-0000013373-00	1/27/2004	Final	0.00	0.00	0.00
011-0000013374-00	6/14/2004	Final	0.00	0.00	0.00
011-0000013375-00	6/21/2004	Final	240.00	240.00	0.00
011-0000013376-00	6/19/2004	Open	800.00	0.00	800.00
011-0000013377-00	6/19/2004	Final	0.00	0.00	0.00
011-0000013379-00	6/21/2004	Final	240.00	240.00	0.00
011-0000013381-00	6/11/2004	Final	184.00	184.00	0.00
011-0000013383-00	6/1/2004	Final	0.00	0.00	0.00
011-0000013385-00	6/27/2004	Open	500.00	0.00	500.00
011-0000013387-00	6/1/2004	Final	760.83	760.83	0.00
011-0000013388-00	6/16/2004	Final	159.38	159.38	0.00
011-0000013390-00	6/28/2004	Final	170.64	170.64	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013391-00	5/11/2004	Final	0.00	0.00	0.00
011-0000013394-00	6/29/2004	Open	500.00	0.00	500.00
011-0000013395-00	5/17/2004	Open	500.00	0.00	500.00
011-0000013397-00	6/30/2004	Final	0.00	0.00	0.00
011-0000013398-00	6/29/2004	Final	0.00	0.00	0.00
011-0000013399-00	7/3/2004	Final	436.18	436.18	0.00
011-0000013400-00	7/3/2004	Final	380.29	380.29	0.00
011-0000013401-00	7/3/2004	Open	500.00	0.00	500.00
011-0000013402-00	6/30/2004	Final	17.00	17.00	0.00
011-0000013404-00	7/8/2004	Final	303.68	303.68	0.00
011-0000013405-00	7/9/2004	Final	0.00	0.00	0.00
011-0000013406-00	7/1/2004	Final	584.22	584.22	0.00
011-0000013409-00	7/8/2004	Open	500.00	0.00	500.00
011-0000013411-00	6/30/2004	Final	937.50	937.50	0.00
011-0000013412-00	7/8/2004	Final	78.00	78.00	0.00
011-0000013415-00	7/13/2004	Open	800.00	0.00	800.00
011-0000013416-00	7/13/2004	Final	0.00	0.00	0.00
011-0000013417-00	7/8/2004	Final	312.45	312.45	0.00
011-0000013418-00	7/14/2004	Final	299.82	299.82	0.00
011-0000013419-00	7/14/2004	Final	427.49	427.49	0.00
011-0000013420-00	7/14/2004	Final	1,376.41	1,376.41	0.00
011-0000013421-00	6/28/2004	Final	0.00	0.00	0.00
011-0000013422-00	7/14/2004	Final	0.00	0.00	0.00
011-0000013423-00	3/1/2004	Final	0.00	0.00	0.00
011-0000013424-00	7/16/2004	Final	0.00	0.00	0.00
011-0000013425-00	7/14/2004	Open	10,555.00	889.92	9,665.08
011-0000013426-00	7/20/2004	Final	0.00	0.00	0.00
011-0000013427-00	7/17/2004	Open	100.00	0.00	100.00
011-0000013428-00	7/20/2004	Final	0.00	0.00	0.00
011-0000013431-00	7/20/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013432-00	6/14/2004	Final	0.00	0.00	0.00
011-0000013434-00	7/20/2004	Open	800.00	0.00	800.00
011-0000013435-00	7/20/2004	Open	800.00	0.00	800.00
011-0000013436-00	7/4/2004	Final	807.47	807.47	0.00
011-0000013437-00	7/14/2004	Final	236.50	236.50	0.00
011-0000013438-00	7/22/2004	Final	0.00	0.00	0.00
011-0000013442-00	7/26/2004	Final	128.72	128.72	0.00
011-0000013447-00	7/19/2004	Final	0.00	0.00	0.00
011-0000013448-00	7/7/2004	Final	0.00	0.00	0.00
011-0000013450-00	7/30/2004	Final	0.00	0.00	0.00
011-0000013451-00	8/2/2004	Final	0.00	0.00	0.00
011-0000013457-00	8/3/2004	Open	800.00	0.00	800.00
011-0000013458-00	7/31/2004	Final	0.00	0.00	0.00
011-0000013460-00	8/1/2004	Final	0.00	0.00	0.00
011-0000013461-00	8/2/2004	Final	215.28	215.28	0.00
011-0000013462-00	8/4/2004	Final	21.99	21.99	0.00
011-0000013463-00	8/2/2004	Open	500.00	0.00	500.00
011-0000013467-00	6/21/2004	Final	0.00	0.00	0.00
011-0000013469-00	8/8/2004	Final	589.51	589.51	0.00
011-0000013471-00	8/6/2004	Open	500.00	0.00	500.00
011-0000013475-00	8/4/2004	Final	436.00	436.00	0.00
011-0000013476-00	8/2/2004	Final	50.00	50.00	0.00
011-0000013477-00	8/3/2004	Open	114.36	0.00	114.36
011-0000013478-00	7/7/2004	Final	0.00	0.00	0.00
011-0000013479-00	8/8/2004	Final	0.00	0.00	0.00
011-0000013480-00	8/10/2004	Open	1,000.00	0.00	1,000.00
011-0000013481-00	8/2/2004	Final	200.00	200.00	0.00
011-0000013484-00	8/10/2004	Final	0.00	0.00	0.00
011-0000013486-00	8/12/2004	Final	0.00	0.00	0.00
011-0000013510-00	7/25/2004	Final	807.70	807.70	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013513-00	8/5/2004	Final	177.07	177.07	0.00
011-0000013514-00	8/13/2004	Final	0.00	0.00	0.00
011-0000013515-00	7/17/2004	Final	0.00	0.00	0.00
011-0000013516-00	7/5/2004	Open	15,000.00	0.00	15,000.00
011-0000013517-00	4/15/2004	Final	1,119.08	1,119.08	0.00
011-0000013518-00	8/18/2004	Final	0.00	0.00	0.00
011-0000013519-00	3/30/2004	Final	0.00	0.00	0.00
011-0000013520-00	8/11/2004	Open	175.00	0.00	175.00
011-0000013521-00	8/26/2004	Open	500.00	0.00	500.00
011-0000013522-00	8/26/2004	Final	715.58	715.58	0.00
011-0000013524-00	8/13/2004	Final	93.75	93.75	0.00
011-0000013525-00	8/17/2004	Open	300.00	0.00	300.00
011-0000013526-00	8/21/2004	Final	378.99	378.99	0.00
011-0000013527-00	8/12/2004	Final	3,850.50	3,850.50	0.00
011-0000013528-00	8/26/2004	Final	0.00	0.00	0.00
011-0000013529-00	8/28/2004	Final	0.00	0.00	0.00
011-0000013530-00	8/2/2004	Final	14.75	14.75	0.00
011-0000013531-00	8/25/2004	Open	103.99	0.00	103.99
011-0000013532-00	8/8/2004	Final	755.20	755.20	0.00
011-0000013533-00	8/28/2004	Final	1,661.75	1,661.75	0.00
011-0000013534-00	8/12/2004	Final	0.00	0.00	0.00
011-0000013535-00	8/10/2004	Final	1,598.63	1,598.63	0.00
011-0000013536-00	8/19/2004	Open	1,000.00	0.00	1,000.00
011-0000013537-00	5/9/2004	Final	546.18	546.18	0.00
011-0000013538-00	5/1/2004	Final	0.00	0.00	0.00
011-0000013539-00	8/3/2004	Final	466.66	466.66	0.00
011-0000013540-00	8/3/2004	Open	1,000.00	0.00	1,000.00
011-0000013541-00	9/1/2004	Final	240.00	240.00	0.00
011-0000013543-00	8/18/2004	Final	69.99	69.99	0.00
011-0000013544-00	8/23/2004	Final	115.00	115.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013545-00	9/3/2004	Final	0.00	0.00	0.00
011-0000013547-00	8/23/2004	Final	0.00	0.00	0.00
011-0000013552-00	9/7/2004	Open	300.00	0.00	300.00
011-0000013553-00	9/8/2004	Open	300.00	0.00	300.00
011-0000013559-00	8/14/2004	Final	1,200.00	1,200.00	0.00
011-0000013560-00	8/14/2004	Final	0.00	0.00	0.00
011-0000013561-00	8/22/2004	Open	700.00	0.00	700.00
011-0000013562-00	8/7/2004	Final	1,581.12	1,581.12	0.00
011-0000013563-00	9/12/2004	Final	0.00	0.00	0.00
011-0000013564-00	9/13/2004	Final	0.00	0.00	0.00
011-0000013565-00	6/15/2004	Final	606.00	606.00	0.00
011-0000013566-00	9/6/2004	Final	527.47	527.47	0.00
011-0000013567-00	9/14/2004	Open	300.00	0.00	300.00
011-0000013569-00	9/14/2004	Final	100.00	100.00	0.00
011-0000013570-00	9/14/2004	Final	11.50	11.50	0.00
011-0000013572-00	9/10/2004	Final	25.00	25.00	0.00
011-0000013573-00	9/14/2004	Final	153.50	153.50	0.00
011-0000013574-00	7/2/2004	Open	616.45	0.00	616.45
011-0000013575-00	9/16/2004	Open	500.00	0.00	500.00
011-0000013576-00	9/14/2004	Open	700.00	0.00	700.00
011-0000013577-00	9/13/2004	Final	2,337.91	2,337.91	0.00
011-0000013578-00	9/16/2004	Final	1,209.04	1,209.04	0.00
011-0000013580-00	9/16/2004	Final	0.00	0.00	0.00
011-0000013581-00	9/21/2004	Final	468.00	468.00	0.00
011-0000013582-00	9/14/2004	Final	139.58	139.58	0.00
011-0000013583-00	9/21/2004	Final	240.00	240.00	0.00
011-0000013586-00	8/29/2004	Final	666.66	666.66	0.00
011-0000013587-00	9/20/2004	Final	0.00	0.00	0.00
011-0000013589-00	9/1/2004	Final	445.80	445.80	0.00
011-0000013590-00	9/8/2004	Open	500.00	0.00	500.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013591-00	8/31/2004	Final	1,185.04	1,185.04	0.00
011-0000013595-00	8/16/2004	Final	0.00	0.00	0.00
011-0000013596-00	6/17/2004	Open	8,310.19	0.00	8,310.19
011-0000013597-00	9/13/2004	Final	114.58	114.58	0.00
011-0000013598-00	9/18/2004	Final	0.00	0.00	0.00
011-0000013600-00	9/29/2004	Final	0.00	0.00	0.00
011-0000013602-00	10/1/2004	Final	3,323.87	3,323.87	0.00
011-0000013603-00	10/1/2004	Final	0.00	0.00	0.00
011-0000013604-00	9/13/2004	Open	500.00	0.00	500.00
011-0000013605-00	10/1/2004	Open	500.00	120.00	380.00
011-0000013606-00	6/15/2004	Final	4,701.02	4,701.02	0.00
011-0000013607-00	10/2/2004	Open	500.00	0.00	500.00
011-0000013608-00	9/10/2004	Final	638.10	638.10	0.00
011-0000013609-00	9/21/2004	Final	483.08	483.08	0.00
011-0000013610-00	10/1/2004	Final	7,040.13	7,040.13	0.00
011-0000013611-00	9/20/2004	Open	1,200.00	0.00	1,200.00
011-0000013612-00	10/6/2004	Final	104.16	104.16	0.00
011-0000013613-00	10/6/2004	Open	500.00	0.00	500.00
011-0000013614-00	10/7/2004	Open	800.00	0.00	800.00
011-0000013615-00	10/2/2004	Open	500.00	0.00	500.00
011-0000013616-00	10/7/2004	Final	0.00	0.00	0.00
011-0000013617-00	10/7/2004	Open	500.00	0.00	500.00
011-0000013621-00	10/11/2004	Final	0.00	0.00	0.00
011-0000013622-00	9/10/2004	Final	550.25	550.25	0.00
011-0000013623-00	10/8/2004	Final	1,419.93	1,419.93	0.00
011-0000013624-00	10/1/2004	Final	0.00	0.00	0.00
011-0000013626-00	10/12/2004	Final	147.16	147.16	0.00
011-0000013627-00	10/12/2004	Open	400.00	0.00	400.00
011-0000013628-00	10/7/2004	Final	0.00	0.00	0.00
011-0000013629-00	10/12/2004	Final	225.08	225.08	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013630-00	10/10/2004	Open	500.00	0.00	500.00
011-0000013631-00	10/15/2004	Open	500.00	0.00	500.00
011-0000013633-00	10/12/2004	Open	7.50	0.00	7.50
011-0000013634-00	10/16/2004	Final	1,111.65	1,111.65	0.00
011-0000013635-00	10/13/2004	Open	1,000.00	0.00	1,000.00
011-0000013636-00	10/19/2004	Open	800.00	0.00	800.00
011-0000013637-00	10/12/2004	Open	1,250.00	0.00	1,250.00
011-0000013638-00	10/16/2004	Open	1,000.00	0.00	1,000.00
011-0000013639-00	10/14/2004	Open	500.00	0.00	500.00
011-0000013640-00	10/14/2004	Final	0.00	0.00	0.00
011-0000013643-00	10/20/2004	Final	120.00	120.00	0.00
011-0000013645-00	10/15/2004	Final	0.00	0.00	0.00
011-0000013647-00	10/16/2004	Final	0.00	0.00	0.00
011-0000013648-00	10/13/2004	Final	153.92	153.92	0.00
011-0000013649-00	10/24/2004	Final	0.00	0.00	0.00
011-0000013650-00	10/24/2004	Open	100.00	0.00	100.00
011-0000013651-00	10/22/2004	Final	0.00	0.00	0.00
011-0000013652-00	10/23/2004	Open	1,000.00	0.00	1,000.00
011-0000013653-00	10/1/2004	Open	500.00	0.00	500.00
011-0000013655-00	10/12/2004	Final	0.00	0.00	0.00
011-0000013656-00	10/12/2004	Open	200.00	0.00	200.00
011-0000013657-00	10/29/2004	Open	500.00	0.00	500.00
011-0000013658-00	11/2/2004	Open	1,000.00	0.00	1,000.00
011-0000013659-00	10/7/2004	Final	0.00	0.00	0.00
011-0000013660-00	10/25/2004	Final	0.00	0.00	0.00
011-0000013662-00	10/28/2004	Final	0.00	0.00	0.00
011-0000013663-00	10/12/2004	Open	3,869.37	0.00	3,869.37
011-0000013664-00	11/3/2004	Final	0.00	0.00	0.00
011-0000013665-00	11/3/2004	Final	0.00	0.00	0.00
011-0000013666-00	10/29/2004	Final	3,313.41	3,313.41	0.00

'otal	Paid Total	Outstanding
).00	0.00	1,000.00
3.60	396.60	0.00
).00	0.00	0.00
).00	0.00	0.00
).00	250.00	0.00
5.38	66.38	0.00
).47	930.47	0.00
).00	0.00	500.00
).00	0.00	1,000.00
).00	240.00	0.00
).00	0.00	0.00
7.00	0.00	347.00
).62	390.62	0.00
).00	0.00	0.00
).00	0.00	0.00
9.74	349.74	0.00
8.54	338.54	0.00
).00	0.00	0.00
).00	0.00	0.00
).00	0.00	1,000.00
).00	0.00	200.00
).00	0.00	300.00
).00	0.00	600.00
3.74	163.74	0.00
).00	0.00	300.00
8.12	278.12	0.00
).00	0.00	0.00
5.89	75.89	0.00
).00	2,200.00	0.00
).00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013710-00	11/6/2004	Final	259.58	259.58	0.00
011-0000013715-00	11/14/2004	Final	0.00	0.00	0.00
011-0000013716-00	9/1/2004	Open	550.00	0.00	550.00
011-0000013717-00	11/14/2004	Final	206.67	206.67	0.00
011-0000013718-00	11/23/2004	Final	0.00	0.00	0.00
011-0000013720-00	11/29/2004	Final	20.00	20.00	0.00
011-0000013721-00	11/9/2004	Reopened	201.51	201.51	0.00
011-0000013722-00	10/30/2004	Open	427.09	0.00	427.09
011-0000013723-00	11/1/2004	Open	1,000.00	0.00	1,000.00
011-0000013724-00	11/22/2004	Final	229.17	229.17	0.00
011-0000013725-00	11/14/2004	Final	247.67	247.67	0.00
011-0000013726-00	12/1/2004	Open	1,000.00	0.00	1,000.00
011-0000013727-00	11/1/2004	Final	181.97	181.97	0.00
011-0000013728-00	11/27/2004	Final	181.97	181.97	0.00
011-0000013729-00	11/26/2004	Final	0.00	0.00	0.00
011-0000013730-00	11/27/2004	Open	500.00	0.00	500.00
011-0000013731-00	12/2/2004	Open	1,000.00	0.00	1,000.00
011-0000013732-00	11/22/2004	Final	0.00	0.00	0.00
011-0000013733-00	12/1/2004	Open	500.00	0.00	500.00
011-0000013738-00	11/27/2004	Final	0.00	0.00	0.00
011-0000013739-00	12/3/2004	Final	244.80	244.80	0.00
011-0000013741-00	12/3/2004	Final	0.00	0.00	0.00
011-0000013742-00	11/29/2004	Final	339.06	339.06	0.00
011-0000013743-00	12/7/2004	Open	1,000.00	0.00	1,000.00
011-0000013744-00	12/7/2004	Final	1,286.38	1,286.38	0.00
011-0000013745-00	12/7/2004	Final	2,780.00	2,780.00	0.00
011-0000013746-00	11/2/2004	Final	518.75	518.75	0.00
011-0000013747-00	11/17/2004	Final	0.00	0.00	0.00
011-0000013749-00	12/9/2004	Final	2,591.64	2,591.64	0.00
011-0000013750-00	12/12/2004	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

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Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013751-00	12/12/2004	Final	0.00	0.00	0.00
011-0000013752-00	12/7/2004	Final	0.00	0.00	0.00
011-0000013753-00	12/8/2004	Final	0.00	0.00	0.00
011-0000013754-00	12/11/2004	Final	0.00	0.00	0.00
011-0000013755-00	12/10/2004	Final	0.00	0.00	0.00
011-0000013756-00	9/20/2004	Open	1,000.00	0.00	1,000.00
011-0000013757-00	12/11/2004	Final	4,475.00	4,475.00	0.00
011-0000013758-00	12/12/2004	Final	282.22	282.22	0.00
011-0000013759-00	12/12/2004	Final	0.00	0.00	0.00
011-0000013760-00	12/8/2004	Final	275.00	275.00	0.00
011-0000013761-00	12/10/2004	Final	0.00	0.00	0.00
011-0000013762-00	12/4/2004	Final	185.00	185.00	0.00
011-0000013763-00	11/27/2004	Final	315.92	315.92	0.00
011-0000013765-00	11/25/2004	Final	0.00	0.00	0.00
011-0000013769-00	12/14/2004	Open	500.00	0.00	500.00
011-0000013772-00	12/10/2004	Final	264.58	264.58	0.00
011-0000013775-00	11/26/2004	Open	1,144.00	0.00	1,144.00
011-0000013776-00	12/9/2004	Open	678.76	0.00	678.76
011-0000013777-00	11/27/2004	Open	1,000.00	0.00	1,000.00
011-0000013778-00	11/27/2004	Final	245.60	245.60	0.00
011-0000013781-00	11/23/2004	Final	0.00	0.00	0.00
011-0000013782-00	12/16/2004	Open	800.00	0.00	800.00
011-0000013786-00	12/22/2004	Open	400.00	0.00	400.00
011-0000013787-00	12/24/2004	Final	1,393.56	1,393.56	0.00
011-0000013788-00	12/24/2004	Final	479.27	479.27	0.00
011-0000013789-00	8/13/2004	Final	1,027.64	1,027.64	0.00
011-0000013790-00	12/26/2004	Open	500.00	0.00	500.00
011-0000013791-00	12/9/2004	Final	184.15	184.15	0.00
011-0000013792-00	11/24/2004	Open	198.00	0.00	198.00
011-0000013793-00	10/12/2004	Open	1,000.00	0.00	1,000.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013796-00	12/22/2004	Final	0.00	0.00	0.00
011-0000013797-00	12/24/2004	Final	233.01	233.01	0.00
011-0000013799-00	12/24/2004	Final	600.77	600.77	0.00
011-0000013800-00	12/22/2004	Open	400.00	0.00	400.00
011-0000013801-00	12/26/2004	Final	236.35	236.35	0.00
011-0000013802-00	12/24/2004	Final	320.13	320.13	0.00
011-0000013803-00	11/24/2004	Open	800.00	0.00	800.00
011-0000013809-00	11/22/2004	Open	600.00	0.00	600.00
011-0000013810-00	12/3/2004	Open	1,000.00	0.00	1,000.00
011-0000013811-00	12/23/2004	Final	165.00	165.00	0.00
011-0000013814-00	12/7/2004	Final	0.00	0.00	0.00
011-0000013826-00	12/19/2004	Final	0.00	0.00	0.00
011-0000013827-00	12/24/2004	Final	2,706.12	2,706.12	0.00
011-0000013831-00	12/10/2004	Final	0.00	0.00	0.00
011-0000013834-00	12/12/2004	Final	0.00	0.00	0.00
011-0000013836-00	11/14/2004	Final	177.07	177.07	0.00
011-0000013841-00	12/23/2004	Final	181.25	181.25	0.00
011-0000013843-00	12/28/2004	Final	0.00	0.00	0.00
011-0000013849-00	12/25/2004	Final	297.66	297.66	0.00
011-0000013850-00	7/15/2004	Final	0.00	0.00	0.00
011-0000013851-00	11/27/2004	Final	0.00	0.00	0.00
011-0000013852-00	12/30/2004	Open	6,235.69	0.00	6,235.69
011-0000013859-00	12/20/2004	Open	300.00	0.00	300.00
011-0000013864-00	12/12/2004	Open	500.00	0.00	500.00
011-0000013865-00	12/10/2004	Final	809.57	809.57	0.00
011-0000013875-00	11/27/2004	Final	376.74	376.74	0.00
011-0000013881-00	11/19/2004	Open	267.06	0.00	267.06
011-0000013886-00	11/27/2004	Open	300.00	0.00	300.00
011-0000013899-00	11/29/2004	Final	0.00	0.00	0.00
011-0000013921-00	12/29/2004	Open	4,500.00	0.00	4,500.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2004					
011-0000013941-00	2/13/2004	Final	114.00	114.00	0.00
011-0000013962-00	12/11/2004	Final	2,005.00	2,005.00	0.00
011-0000013963-00	12/30/2004	Open	216.30	0.00	216.30
011-0000013995-00	12/22/2004	Final	0.00	0.00	0.00
011-0000014005-00	7/17/2004	Final	0.00	0.00	0.00
Total By Loss Date:				**1,355 Claims**	
			508,578.48	**317,180.67**	**191,397.81**

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2005					
011-0000013806-00	1/1/2005	Open	500.00	50.00	450.00
011-0000013812-00	1/1/2005	Open	3,520.00	0.00	3,520.00
011-0000013815-00	1/4/2005	Open	2,000.00	0.00	2,000.00
011-0000013816-00	1/4/2005	Final	1,317.30	1,317.30	0.00
011-0000013817-00	1/4/2005	Final	8,416.85	8,416.85	0.00
011-0000013818-00	1/5/2005	Final	0.00	0.00	0.00
011-0000013819-00	1/4/2005	Open	1,000.00	0.00	1,000.00
011-0000013820-00	1/4/2005	Final	1,312.53	1,312.53	0.00
011-0000013821-00	1/4/2005	Open	5,000.00	0.00	5,000.00
011-0000013822-00	1/4/2005	Final	4,869.26	4,869.26	0.00
011-0000013823-00	1/3/2005	Final	0.00	0.00	0.00
011-0000013828-00	1/9/2005	Open	500.00	0.00	500.00
011-0000013829-00	1/9/2005	Open	500.00	0.00	500.00
011-0000013830-00	1/9/2005	Final	0.00	0.00	0.00
011-0000013832-00	1/9/2005	Final	219.68	219.68	0.00
011-0000013833-00	1/8/2005	Final	0.00	0.00	0.00
011-0000013835-00	1/8/2005	Final	0.00	0.00	0.00
011-0000013837-00	1/8/2005	Final	112.39	112.39	0.00
011-0000013838-00	1/6/2005	Final	240.00	240.00	0.00
011-0000013839-00	1/9/2005	Final	1,272.12	1,272.12	0.00
011-0000013840-00	1/10/2005	Open	900.00	0.00	900.00
011-0000013848-00	1/1/2005	Final	240.00	240.00	0.00
011-0000013853-00	1/4/2005	Open	1,000.00	0.00	1,000.00
011-0000013854-00	1/8/2005	Final	0.00	0.00	0.00
011-0000013856-00	1/4/2005	Open	20,000.00	0.00	20,000.00
011-0000013860-00	1/4/2005	Open	73.17	0.00	73.17
011-0000013862-00	1/2/2005	Final	404.00	404.00	0.00
011-0000013863-00	1/2/2005	Final	244.00	244.00	0.00
011-0000013866-00	1/15/2005	Open	800.00	0.00	800.00
011-0000013867-00	1/15/2005	Open	1,000.00	0.00	1,000.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2005					
011-0000013868-00	1/2/2005	Final	353.00	353.00	0.00
011-0000013869-00	1/8/2005	Final	0.00	0.00	0.00
011-0000013870-00	1/13/2005	Final	44.27	44.27	0.00
011-0000013871-00	1/4/2005	Open	149.57	0.00	149.57
011-0000013872-00	1/6/2005	Final	71.87	71.87	0.00
011-0000013873-00	1/6/2005	Open	800.00	0.00	800.00
011-0000013874-00	1/17/2005	Final	0.00	0.00	0.00
011-0000013876-00	1/8/2005	Final	0.00	0.00	0.00
011-0000013878-00	1/13/2005	Open	500.00	0.00	500.00
011-0000013879-00	1/9/2005	Open	800.99	0.00	800.99
011-0000013880-00	1/9/2005	Open	500.00	0.00	500.00
011-0000013882-00	1/4/2005	Final	0.00	0.00	0.00
011-0000013883-00	1/8/2005	Final	0.00	0.00	0.00
011-0000013884-00	1/1/2005	Final	88.54	88.54	0.00
011-0000013887-00	1/11/2005	Final	695.40	695.40	0.00
011-0000013888-00	1/4/2005	Open	93.75	0.00	93.75
011-0000013889-00	1/8/2005	Final	0.00	0.00	0.00
011-0000013890-00	1/21/2005	Final	240.00	240.00	0.00
011-0000013891-00	1/15/2005	Final	530.97	530.97	0.00
011-0000013892-00	1/20/2005	Open	1,000.00	0.00	1,000.00
011-0000013893-00	1/19/2005	Open	1,000.00	0.00	1,000.00
011-0000013897-00	1/24/2005	Open	800.00	0.00	800.00
011-0000013898-00	1/4/2005	Final	301.38	301.38	0.00
011-0000013900-00	1/21/2005	Final	378.41	378.41	0.00
011-0000013901-00	1/4/2005	Final	0.00	0.00	0.00
011-0000013902-00	1/3/2005	Final	0.00	0.00	0.00
011-0000013903-00	1/17/2005	Final	0.00	0.00	0.00
011-0000013904-00	1/10/2005	Final	0.00	0.00	0.00
011-0000013907-00	1/24/2005	Open	800.00	0.00	800.00
011-0000013908-00	1/26/2005	Final	0.00	0.00	0.00

Total	Paid Total	Outstanding
0.00	0.00	500.00
0.00	0.00	500.00
0.00	0.00	500.00
0.00	0.00	0.00
0.00	0.00	1,000.00
0.00	0.00	2,100.00
0.00	0.00	500.00
0.00	0.00	0.00
0.00	0.00	1,500.00
9.00	0.00	2,439.00
0.00	0.00	0.00
6.46	76.46	0.00
0.00	0.00	1,000.00
0.00	0.00	1,000.00
7.50	87.50	0.00
0.00	0.00	0.00
0.00	0.00	1,000.00
0.00	0.00	0.00
0.16	1,110.16	0.00
0.00	0.00	500.00
0.00	0.00	0.00
0.00	0.00	500.00
0.00	0.00	800.00
0.42	140.42	0.00
9.95	169.95	0.00
3.93	0.00	1,653.93
4.00	0.00	124.00
0.00	725.87	274.13
0.00	0.00	0.00
0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2005					
011-0000013952-00	2/11/2005	Final	0.00	0.00	0.00
011-0000013953-00	2/17/2005	Open	300.00	0.00	300.00
011-0000013955-00	2/11/2005	Final	0.00	0.00	0.00
011-0000013956-00	2/7/2005	Final	0.00	0.00	0.00
011-0000013957-00	2/7/2005	Open	300.00	0.00	300.00
011-0000013958-00	2/19/2005	Open	2,000.00	0.00	2,000.00
011-0000013959-00	2/19/2005	Open	1,000.00	0.00	1,000.00
011-0000013960-00	2/9/2005	Final	0.00	0.00	0.00
011-0000013961-00	2/11/2005	Final	0.00	0.00	0.00
011-0000013965-00	2/7/2005	Open	500.00	0.00	500.00
011-0000013968-00	1/29/2005	Final	0.00	0.00	0.00
011-0000013969-00	2/23/2005	Final	0.00	0.00	0.00
011-0000013970-00	2/7/2005	Final	300.00	300.00	0.00
011-0000013971-00	1/28/2005	Open	1,349.00	0.00	1,349.00
011-0000013973-00	2/13/2005	Open	300.00	0.00	300.00
011-0000013974-00	2/18/2005	Final	398.40	398.40	0.00
011-0000013975-00	2/12/2005	Open	1,790.00	0.00	1,790.00
011-0000013976-00	2/16/2005	Final	0.00	0.00	0.00
011-0000013977-00	2/25/2005	Open	1,000.00	0.00	1,000.00
011-0000013978-00	2/25/2005	Open	1,000.00	0.00	1,000.00
011-0000013979-00	2/25/2005	Open	800.00	0.00	800.00
011-0000013980-00	2/25/2005	Open	1,000.00	0.00	1,000.00
011-0000013981-00	2/25/2005	Open	500.00	0.00	500.00
011-0000013982-00	2/25/2005	Open	200.00	0.00	200.00
011-0000013983-00	2/25/2005	Final	422.35	422.35	0.00
011-0000013984-00	1/4/2005	Final	364.07	364.07	0.00
011-0000013985-00	2/27/2005	Open	500.00	0.00	500.00
011-0000013986-00	2/7/2005	Open	500.00	0.00	500.00
011-0000013991-00	1/6/2005	Final	203.99	203.99	0.00
011-0000013992-00	1/9/2005	Final	0.00	0.00	0.00

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Loss Date: 2005					
011-0000013993-00	2/28/2005	Final	406.25	406.25	0.00
011-0000013994-00	2/11/2005	Final	0.00	0.00	0.00
011-0000013996-00	3/4/2005	Final	0.00	0.00	0.00
011-0000013997-00	2/22/2005	Final	0.00	0.00	0.00
011-0000013998-00	3/6/2005	Open	500.00	0.00	500.00
011-0000013999-00	3/7/2005	Final	0.00	0.00	0.00
011-0000014000-00	3/8/2005	Open	300.00	0.00	300.00
011-0000014002-00	1/20/2005	Final	300.00	300.00	0.00
011-0000014003-00	3/7/2005	Open	500.00	0.00	500.00
011-0000014006-00	3/8/2005	Final	0.00	0.00	0.00
011-0000014007-00	3/3/2005	Open	25.00	0.00	25.00
011-0000014008-00	3/13/2005	Open	800.00	0.00	800.00
011-0000014010-00	3/15/2005	Final	0.00	0.00	0.00
011-0000014011-00	3/3/2005	Open	500.00	0.00	500.00
011-0000014012-00	3/11/2005	Final	0.00	0.00	0.00
011-0000014013-00	3/16/2005	Final	0.00	0.00	0.00
011-0000014014-00	3/16/2005	Open	120.00	0.00	120.00
011-0000014015-00	3/16/2005	Open	240.00	0.00	240.00
011-0000014016-00	3/17/2005	Open	700.00	0.00	700.00
011-0000014018-00	3/13/2005	Open	200.00	0.00	200.00
011-0000014019-00	3/10/2005	Open	303.13	0.00	303.13
011-0000014020-00	3/4/2005	Open	700.00	0.00	700.00
011-0000139500-0	2/11/2005	Final	0.00	0.00	0.00
Total By Loss Date:			**103,113.06**	**143 Claims 26,107.39**	**77,005.67**

Hawaiian Electric Co., Inc.

Claims Filed Pursuant to Rule No. 16
January 1, 2000 - Present

Claim Number	Loss Date	Status	Incurred Total	Paid Total	Outstanding
Grand Totals:				**5,132 Claims**	
			2,146,302.74	**1,697,761.02**	**448,541.72**

STARS

CA-IR-368

Ref: HECO-2220, HECO-2222, HECO-2223 and HECO-2224, Power Factor Adjustment

Please provide the following information regarding the Company's tariff provision for a 0.1 percent demand and energy charge adjustment for each full one percentage departure from an 85 percent power factor:

a. Explain when this tariff provision was initiated and provide copies of, or reference to associated testimony and exhibits.

b. State whether the discount terms are thought to be cost-based or economically justified.

c. Provide complete copies of all studies and other documentation associated with your response to part (b) of this information request.

HECO Response:

a. The power factor adjustment provision has been in HECO's tariffs since before the 1930's. The demand and energy adjustment was changed from 0.15% to 0.10% effective July 22, 1980, per PUC Decision & Order No. 6275 in Docket No. 3705.

b. See HECO response to part a. above. The power factor adjustment is economically justified as it provides incentives to customers to install capacitors and reduce the kvar that they require from the system, thereby reducing the utility system costs. The power factor adjustment is a common provision in utilities' tariffs for large power service.

c. Copies of other utilities' tariffs with power factor provisions are available but are voluminous. One copy each will be provided to the Consumer Advocate and the Commission under separate transmittal.

WMECO - Primary General Service

MDTE No. 1006B
Cancels MDPU No. 957

PRIMARY GENERAL SERVICE
SCHEDULE G-2

APPLICABILITY:
This rate is applicable only to the entire use of electricity at a single location where service requires only primary facilities. Such service shall not exceed 349 kW. All electricity shall be measured through one meter, except that, where the Company deems it impractical to deliver electricity through one service, or where more than one meter has been installed, then the measurement of electricity may be by two or more meters. All electricity supplied shall be for the exclusive use of the customer and shall not be resold. With the approval of the Company the customer may furnish electricity to persons or concerns who occupy space in the building to which service is supplied hereunder, but on the express condition that the customer shall not resell, make a specific charge for, or remeter (or submeter) or measure or control the use of, any of the electricity so furnished.

Notwithstanding the foregoing, Schedule 23 may be used in conjunction herewith and separately billed.

RATE - Per month:

DISTRIBUTION CHARGES:

Customer Charge	$333.14
First 50 kW of Demand	$2.22 Per kW
All Over 50 kW of Demand	$7.53 Per kWh
Energy Charge	$0.00036 Per kWh

TRANSITION CHARGE:	$0.03223 Per kWh
TRANSMISSION CHARGE:	
First 50 kW	$0.93 Per kW
All Over 50 kW	$0.93 Per kW

SUPPLIER SERVICE OPTIONS:

Standard Service	As Per Tariff
Default Service	As Per Tariff
Third-Party Supply	As Per Standard or Default Service Tariffs

REACTIVE DEMAND:

a. All reactive kVA less than 25% of the actual demand — 15¢ credit Per kVa

b. If a customer is found to have a power factor of less than 90% lagging, the Company may require correction to at least 90% lagging as a condition of service. If the customer does not correct the power factor to at least 90% lagging and the Company corrects the condition, the customer will reimburse the Company for all costs which it incurs.

DETERMINATION OF DEMAND:
The Demand shall be determined by meter, monthly, and shall be the highest 30-minute kilowatt registration during the month determined to the nearest one-half kW.

DETERMINATION OF REACTIVE DEMAND:
The reactive demand shall be the highest average 30-minute reactive load in kilovolt-amperes occurring during the billing month coincident with the highest average 30-minute kilowatt demand(s) occurring in the billing month. Customers may request that the Company perform periodic tests of the customer's power factor. If such tests demonstrate that the customer's power factor exceeds 97%, the Reactive Demand Credit will be calculated using the test power factor.

The Customer will not be eligible to receive the reactive demand credit if the customer consistently has a leading power factor during the Company's light load hours from 11 p.m. to 7 a.m. The Company reserves the right to conduct periodic tests at reasonable intervals if it is suspected that a customer has a leading power factor during the aforementioned light load hours.

RATE ADJUSTMENTS:
This rate will be adjusted as provided in the Company's Demand Side Management and Renewable Energy Adjustments.

TRANSITION COST ADJUSTMENT:
The Transition charges and terms under this rate includes a Transition Cost Adjustment Charge set in accordance with the Company's Transition Cost Adjustment.

TRANSMISSION COST ADJUSTMENT:
Transmission service charges for all customers taking service under this rate shall be set in accordance with the Company's Transmission Cost Adjustment.

MISCELLANEOUS CREDITS:
Transformer Ownership Credit: If the service transformers and associated equipment, except metering, are furnished by the customer, a credit shall be applied to the bill equal to $.20 per kW.

Metering Credit: The Company may meter the electricity delivered to the customer on the higher voltage side of the service transformers, in which case the number of kWh so registered shall be reduced by two (2) percent.

MINIMUM MONTHLY CHARGE:
The minimum charge is the customer charge.

TERMS:
The Company's Terms and Conditions in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

TERM OF CONTRACT:
Customers served under this rate must provide the Company with six months prior written notice before installing, or allowing to be installed for its use, a non-emergency generator with a nameplate capacity greater than that in place on the Customer's location as of March 1, 1998. Also, customers receiving service under this or superseding rate schedule may not change to another rate schedule within the first 12 months of the service.

Issued per Order in DTE 97-120
dated February 20, 1998

For Consumption On and
After March 1,1998

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Western Massachusetts Electric
The Northeast Utilities System

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WMECO - Large Primary Service Time-Of-Use

MDTE No. 1008B
Cancels MDPU No. 959

LARGE PRIMARY SERVICE TIME-OF-USE
SCHEDULE T-2

APPLICABILITY:
This rate is applicable only to the entire use of electricity at a single location where service requires only primary facilities. All electricity shall be measured through one meter, except that, where the Company deems it impractical to deliver electricity through one service, or where more than one meter has been installed, then the measurement of electricity may be by two or more meters. All electricity supplied shall be for the exclusive use of the customer and shall not be resold. With the approval of the Company, the customer may furnish electricity to persons or concerns who occupy space in the building to which service is supplied hereunder, but on the express condition that the customer shall not resell, make a specific charge for, or remeter (or submeter) or measure or control the use of, any of the electricity so furnished.

Customers whose maximum demand equaled or exceeded 350 kW at any time in the most recent 12 months and new customers whose demand is reasonably anticipated to equal or exceed 350 kW within one year must take service under this rate.

MONTHLY RATE:

DISTRIBUTION CHARGES:

Customer Service Charge:
The Customer Service Charge shall be based on the customer's two highest maximum demand months within the most recent 12 months (On- or Off-Peak). If in the most recent 12 months, the customer has;

a. two billing months with maximum kW demands over a higher demand threshold or,
b. one billing month with a maximum kW demand over a higher demand threshold by 5 percent or more of the higher demand threshold then,

the Customer Service Charge will be that of the higher demand threshold.

$2, 268.14 for less than 500 kW demand
2,754.14 for 500 kW but less than 650 kW demand
3,186.14 for 650 kW but less than 1,000 kW demand
6,354.14 for 1,000 kW but less than 1,500 kW demand
9,972.14 for 1,500 kW but less than 3,000 kW demand
13,770.14 for 3,000 kW demand and over

On-Peak Demand	$2.82 Per kW

TRANSITION CHARGES:

On-Peak Demand	$10.41 Per kW
On-Peak Energy	$0.01268 Per kWh
Off-Peak Energy	$0.00258 Per kWh

TRANSMISSION CHARGE:

On-Peak Demand	$1.17 Per kW

SUPPLIER SERVICE OPTIONS:

Standard Service	As Per Tariff
Default Service	As Per Tariff
Third-Party Supply	As Per Standard or Default Service Tariffs

REACTIVE DEMAND:

a. All reactive kVA less than 25% of the actual demand — 15¢ credit Per kVA

b. If a customer is found to have a power factor of less than 90% lagging, the Company may require correction to at least 90% lagging as a condition of service. If the customer does not correct the power factor to at least 90% lagging and the Company corrects the condition, the customer will reimburse the Company for all costs which it incurs.

ADJUSTMENT FOR SERVICE AT TRANSMISSION VOLTAGE:
If a customer is provided service at 69 kV or higher, and furnishes, owns and maintains all service transformers and associated equipment except metering, which shall measure at transmission voltage, then the customer will receive a credit equal to the marginal cost of distribution per kW, currently $3.95 per kW, as approved by the MASS DPU in the most recent rate case, and the above Standard Service or Default Service energy charges shall be reduced to reflect the on-peak and off-peak differentials in energy line losses between transmission and primary distribution service. This energy charge reduction shall be implemented by multiplying the on-peak, by .9602, and off-peak, by .9724, energy charges determined as the quotient (1 - Lgs)/(1 - Ltr), where Lgs equals the appropriate marginal on-peak or off-peak energy loss rates associated with the primary distribution service and Ltr equals the corresponding on-peak and off-peak marginal energy loss rates at transmission voltage service.

DETERMINATION OF DEMAND FOR DEMAND CHARGE:
The Demand shall be determined by meter, monthly, and shall be the highest 30-minute kilowatt registration during the month in the On-Peak hours determined to the nearest one-half kW. Measurement of demand will be on the basis of the Company's available metering.

DETERMINATION OF REACTIVE DEMAND:
The reactive demand shall be the highest average 30-minute reactive load in kilovolt

RATE ADJUSTMENTS:
This rate will be adjusted as provided in the Company's Demand Side Management and Renewable Energy Adjustments.

TRANSITION COST ADJUSTMENT:
The Transition charges and terms under this rate includes a Transition Cost Adjustment Charge set in accordance with the Company's Transition Cost Adjustment.

TRANSMISSION COST ADJUSTMENT:
Transmission service charges for all customers taking service under this rate shall be set in accordance with the Company's Transmission Cost Adjustment.

MISCELLANEOUS CREDITS:
Transformer Ownership Credit: If the service transformers and associated equipment, except metering, are furnished by the customer, a credit shall be applied to the bill equal to:

First 1,000 kW of maximum monthly demand	$.20 Per kW
All over 1,000 kW of maximum monthly demand	$.10 Per kW

Metering Credit: The Company may meter the electricity delivered to the customer on the higher voltage side of the service transformers, in which case the number of kWh so registered shall be reduced by two (2) percent.

MINIMUM MONTHLY CHARGE:
The minimum charge is the applicable customer charge.

TERMS:
The Company's Terms and Conditions in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate schedule.

TERM OF CONTRACT:
Customers served under this rate must provide the Company with six months prior written notice before installing, or allowing to be installed for its use, a non-emergency generator with a nameplate capacity greater than that in place on the Customer's location as of March 1, 1998. Also, customers receiving service under this or superseding rate schedule may not change to another rate schedule within the first 12 months of the service.

Issued per Order in DTE 97-120
dated February 20, 1998

For Consumption On and
After March 1, 1998

Back to Main Page

Black Hills Power

Commerical and Industrial General Service - Wyoming

AVAILABLE
At points on the Company's existing distribution facilities supplied by its interconnected transmission system.

APPLICABLE
To customers using electric service supplied at one point of delivery and for which no specific schedule is provided. This schedule is not applicable to standby, supplementary, emergency, resale, shared or incidental service.

CHARACTER OF SERVICE
Alternating current, 60 hertz, at the voltage and phase of the Company's established distribution system most available to the location of the customer.

NET MONTHLY BILL

Customer Charge	$9.50
Capacity Charge	No charge for first 5 kW of Billing Capacity $4.35 per kW for next 45 kW of Billing Capacity $3.90 per kW for all additional kW of Billing Capacity
Energy Charge	6.80¢ per kW for first 1,000 kWh 6.45¢ per kWh for next 2,000 kWh 6.20¢ per kWh for next 12,000 kWh 5.89¢ per kWh for all additional kWh
Minimum	The capacity charge or $2.25 per kilovolt-ampere (kVA) of required transformer capacity including a special transformer installation provided for the benefit of the customer or to protect the quality of service to other customers, but not less than the customer charge.

BILLING CAPACITY
Customer's average kilowatt load during the fifteen-minute period of maximum use during the month

Bills computed under the above rate will be increased by the applicable proportionate part of any impost, assessment or charge imposed or levied by any governmental authority as a result of laws or ordinances enacted, which is assessed or levied on the basis of revenue for electric energy or service sold, and/or the volume of energy generated and sold; provided, however, that this adjustment shall only be applied when authorized by order of the Public Service Commission of Wyoming.

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THE CONNECTICUT LIGHT AND POWER COMPANY

INTERMEDIATE GENERAL ELECTRIC SERVICE

AVAILABLE for the electrical requirements where the customer's maximum demand is less than 350 kW and delivered at one point and at one standard voltage through one installation of transformers supplied by the Company. Service will be metered at one point by one installation of meters. The meter location will be determined by the Company. Where the Company deems it impractical to deliver electricity through one service, or where more than one meter has been installed for billing under a withdrawn rate, then the measurement of electricity may be by two or more meters.

MONTHLY RATE:

DISTRIBUTION SERVICE RATE:

CUSTOMER CHARGE	$258.60
DIST. DEMAND CHARGE	$3.99 per kW
CHARGE PER kWh	
FIRST 400 kWH PER kW OF ACTUAL DEMAND	$0.00315
ALL OVER 400 kWH PER kW OF ACTUAL DEMAND	$0.00000

TRANSMISSION SERVICE RATE:

PROD./TRAN. DEMAND CHARGE	$1.55 per kW

SYSTEMS BENEFITS CHARGE:

CHARGE PER kWh	$0.00007

COMPETITIVE TRANSITION ASSESSMENT:

PROD./TRAN. DEMAND CHARGE	$2.74 per kW
CHARGE PER kWh	
FIRST 400 kWH PER kW OF ACTUAL DEMAND	$0.00202
ALL OVER 400 kWH PER kW OF ACTUAL DEMAND	$0.00160

CONSERVATION CHARGE:

CHARGE PER kWh	$0.00176

RENEWABLE ENERGY:

CHARGE PER kWh Effective June 23, 2004	$0.00052
CHARGE PER kWH Effective January 1, 2005	$0.00100

THE CONNECTICUT LIGHT AND POWER COMPANY

INTERMEDIATE GENERAL ELECTRIC SERVICE

FMCC DELIVERY CHARGE:

CHARGE PER KWH	As stated in Federally Mandated Congestion Charge tariff.

SUPPLIER SERVICE OPTIONS:
(as per the Generation Service tariff)

GENERATION SERVICE

CHARGE PER kWh

FIRST 400 kWh per kW of Actual Demand	$0.05439
All OVER 400 kWh per kW of Actual Demand	$0.04766
THIRD-PARTY SERVICE	as per contract

FMCC GENERATION CHARGE:

CHARGE PER KWH	As stated in Federally Mandated Congestion Charge tariff. Not applicable to customers taking THIRD-PARTY SERVICE above.

REACTIVE DEMAND:

a. All reactive kVAR less than 25% of the actual demand — 15¢ credit per kVAR

b. If a customer is found to have a power factor of less than 90% lagging, the Company may require correction to at least 90% lagging as a condition of service. If the customer does not correct the power factor to at least 90% lagging and the Company corrects the condition, the customer will reimburse the Company for all costs which it incurs.

RATE ADJUSTMENTS: This rate will be adjusted as provided in the Company's Energy Adjustment Clause.

COMPETITIVE TRANSITION ASSESSMENT COST ADJUSTMENT:

Competitive Transition Assessment (CTA) charges and terms under this rate includes a CTA Cost Adjustment Charge set in accordance wit h the Company's CTA Cost Adjustment.

THE CONNECTICUT LIGHT AND POWER COMPANY

INTERMEDIATE GENERAL ELECTRIC SERVICE

SYSTEMS BENEFITS COST ADJUSTMENT:

Systems Benefits service charges for all customers taking service under this rate shall be set in accordance with the Company's Systems Benefits Cost Adjustment.

DETERMINATION OF PRODUCTION/TRANSMISSION DEMAND: The production/ transmission demand shall be the highest average 30-minute kilowatt demand in the current month provided that where the meter registers a 15-minute demand interval, the demand so registered shall be reduced by 1.2 percent.

DETERMINATION OF DISTRIBUTION DEMAND: The distribution demand shall be the highest average 30-minute kilowatt demand in twelve (12) months ending with the current month, provided that where the meter registers a 15-minute demand interval, the demand so registered shall be reduced by 1.2 percent.

The customer may, upon not less than three (3) months' prior written notice to the Company, decrease the Distribution Demand solely to reflect lower load levels resulting from demonstrable conservation and load management.

DETERMINATION OF REACTIVE DEMAND: The reactive demand shall be the highest average 30-minute reactive load in kilovolt-amperes occurring during the billing month coincident with the highest average 30-minute kilowatt demand(s) occurring in the billing month. A Customer may request that the Company perform periodic tests of the customer's power factor. If such tests demonstrate that the customer's power factor exceeds 97%, the Reactive Demand Credit will be calculated using the test power factor. Where the meter registers a 15-minute demand interval the demand so registered shall be reduced by 1.2 percent.

The customer will not be eligible to receive the reactive demand credit if the customer consistently has a leading power factor during the Company's light load hours from 11 p.m. to 7 a.m.

The Company shall have the right to conduct periodic tests at reasonable intervals to determine reactive demands.

SPECIAL PROVISIONS:

1. Primary Metering: If the service is metered on the primary side of the transformers supplying the customer, 2% of the metered kilowatthours will be deducted in computing the bill.

2. Facilities Ownership: If the service is taken at the property line and the Company is relieved of owning and maintaining all electrical distribution equipment on private property, except the metering equipment, a credit shall be applied to the bill equal to $.20 per kW of the Distribution Demand billed.

THE CONNECTICUT LIGHT AND POWER COMPANY

INTERMEDIATE GENERAL ELECTRIC SERVICE

MINIMUM CHARGE: The minimum charge is the customer charge plus the distribution demand charges in any rate category.

TERM OF CONTRACT: One year and thereafter unless canceled by one month's written notice.

ELECTRIC SERVICE TARIFF:

POWER AND LIGHT MEDIUM SCHEDULE: "PLM-3"

GEORGIA POWER
SOUTHERN COMPANY

PAGE	EFFECTIVE DATE	REVISION	PAGE NO.
1 of 2	With Bills Rendered for the Billing Month of March, 2002	Original	3.12

AVAILABILITY:

Throughout the Company's service area from existing lines of adequate capacity.

APPLICABILITY:

To all electric service of one standard voltage required on the customer's premises, delivered at one point and metered at or compensated to that voltage for any customer with a demand, as determined under the Special Applicability Provisions, of not less than 30 kW but less than 500 kW.

TYPE OF SERVICE:

Single or three phase, 60 hertz, at a standard voltage.

MONTHLY RATE - Energy Charge Including Demand Charge:

Base Charge **$14.00**

All consumption (kWh) not greater than 200 hours times the billing demand:

First 3,000 kWh	**@**	**8.757¢ per kWh**
Next 7,000 kWh	**@**	**8.026¢ per kWh**
Next 190,000 kWh	**@**	**6.910¢ per kWh**
Over 200,000 kWh	**@**	**5.355¢ per kWh**

All consumption (kWh) in excess of 200 hours and not greater than 400 hours times the billing demand ..... **@** ..... **0.892¢ per kWh**

All consumption (kWh) in excess of 400 hours and not greater than 600 hours times the billing demand ..... **@** ..... **0.672¢ per kWh**

All consumption (kWh) in excess of 600 hours times the billing demand ..... **@** ..... **0.586¢ per kWh**

Minimum Monthly Bill:

A. $14.00 Base Charge plus $6.42 per kW of billing demand in excess of 30 kW plus excess kVAR charges and Fuel Cost Recovery as applied to the current month kWh.

B. Metered Outdoor Lighting: The lessor of (1) that determined from paragraph "A" above, or (2) $31.91 per meter plus Fuel Cost Recovery for metered outdoor lighting installations, provided service is limited to the lighting equipment itself and such incidental load as may be required to operate coincidentally with the lighting equipment.

DETERMINATION OF REACTIVE DEMAND:

Where there is an indication of a power factor of less than 95% lagging, the Company may at its option, install metering equipment to measure Reactive Demand. The Reactive Demand shall be the highest 30-minute kVAR measured during the month. The Excess Reactive Demand shall be kVAR which is in excess of one-third of the measured actual kW in the current month. The Company will bill excess kVAR at the rate of $0.27 per excess kVAR.

FUEL COST RECOVERY:

The amount calculated at the above rate will be increased under the provisions of the Company's effective Fuel Cost Recovery Schedule, including any applicable adjustments

SCHEDULE: "PLM-3"

PAGE	EFFECTIVE DATE	REVISION	PAGE NO.
2 of 2	With Bills Rendered for the Billing Month of March, 2002	Original	3.12

DETERMINATION OF BILLING DEMAND:

The Billing Demand shall be based on the highest 30-minute kW measurement during the current month and the preceding eleven (11) months.

For the billing months of **June** through **September**, the Billing Demand shall be the greatest of:
(1) The current actual demand, or,
(2) Ninety-Five percent (95%) of the highest actual demand occurring in any previous applicable summer month (June through September), or,
(3) Sixty percent (60%) of the highest actual demand occurring in any previous applicable winter month (October through May).

For the billing months of **October** through **May**, the Billing Demand shall be the greater of:

(1) Ninety-Five percent (95%) of the highest summer month (June through September), or,
(2) Sixty percent (60%) of the highest winter month (October through May), including the current month.

In no case shall the Billing Demand be less than the greatest of:
(1) The contract minimum, or,
(2) Fifty percent (50%) of the total contract capacity, or,
(3) 30 kW.

SPECIAL APPLICABILITY PROVISIONS:

Limitation of Service

Service will be provided hereunder for those customers having a calculated demand of not less than 30 kW but less that 500 kW where that calculation is the greater of:
(1) Applying Sixty percent (60%) to the current or previous 11 months winter or off-peak demands, or,
(2) Applying Ninety-Five percent (95%) to the current or previous 11 months summer or on-peak demands.

For customers on the Off-Peak (OP) and Variable Off-Peak (VOP) riders the calculation shall be based on the percentages as stated in the riders.

Construction Service

Construction power shall be considered as a part of permanent service and will be provided in accordance with the Applicability section of this schedule. The Company will obtain a payment in advance for each metering point to be served in the amount currently on file with the Georgia Public Service Commission.

TERM OF CONTRACT:

One year.

GENERAL TERMS & CONDITIONS:

The bill calculated under this tariff is subject to change in such an amount as may approved and/or amended by the Georgia Public Service Commission under the provisions of applicable riders.

Service hereunder subject to Rules and Regulations for Electric Service on file with the Georgia Public Service Commission.

ENTERGY MISSISSIPPI, INC.

Date Filed: December 16, 2002
Date to be Effective: December 31, 2002
Docket No.: 02-UN-0526

MISSISSIPPI PUBLIC SERVICE COMMISSION
P.S.C. Schedule No. I-13
Revised Schedule No. 13, Date: December 31, 2002
Superseded Schedule No. 13, Date: September 28, 2001
Schedule Consists of: Three Pages

INTERMEDIATE GENERAL SERVICE RATE SCHEDULE B-31

I. AVAILABILITY

At any point on Company's existing distribution lines of adequate capacity and suitable voltage.

II. APPLICATION

To all electric service for which no specific schedule is provided, supplied to customers contracting for not less than 200 kW, when all service required on the premises is supplied at one point of delivery and measured by one kilowatt-hour meter.

Applicable to standby and supplementary service only in conjunction with the applicable rider for such service.

Not applicable to temporary, breakdown, resale, or shared service.

III. CHARACTER OF SERVICE

Three phase, 60 cycles, and at one standard nominal voltage required by Customer, as described in Company's Standards For Electrical Installations.

IV. NET MONTHLY RATE

A. RATE

$737.41	for the first 200 kW or less of Customer's Demand
$ 3.039	per kW for the next 200 kW of Customer's Demand
$ 2.899	per kW for all additional kW of Customer's Demand
$ 0.050601	per kWh for the first 60,000 kWh
$ 0.045365	per kWh for additional kWh up to 400 kWh per kW of Customer's Demand
$ 0.040936	per kWh for all additional kWh
$ 0.34	per KVAR of Excess KVAR

B. MINIMUM BILL

The charges based on Customer's Demand and Excess KVAR for the current month or such higher amount as may be required for line extension customers.

C. PRIMARY DELIVERY ADJUSTMENT

Customer may elect to take service at the primary voltage that is available, or in Company's judgment, can be made available in the most practicable manner. When Customer contracts to take service at such primary voltage and provides all facilities necessary to take service at this voltage, the demand charge, before adjustments, will be reduced $0.34 per kW for nominal 13,800 volt delivery.

D. METERING ADJUSTMENT

Company may elect to measure such service on the secondary side of Customer's transformer installation. Where metering is at primary, the metering equipment installed will compensate for transformer losses or in lieu thereof an allowance of 1% will be made in the measured quantities.

(Continued on reverse side)

E. OTHER ADJUSTMENTS

First - Plus or minus an amount determined in accordance with Company's effective Energy Cost Recovery Rider on file with the Mississippi Public Service Commission.

Second - Plus or minus a percentage adjustment on the pre-tax billing sufficient to compensate Company for any increase in income taxes above the 1993 level or to reduce Customer's billing to adjust for any decrease in any effective income tax rates.

Upon any change in the effective rates of income taxes the Company will file within 30 days the percentage adjustment to be applied for the remainder of the year based on operations for the prior calendar year. Subsequently the percentage adjustment to be applied during a year will be filed with the Commission prior to February 1 of each year and will be based on the prior calendar year's operations. The adjustment will be such percentage as may be necessary to obtain the same after-tax income under the effective tax rates as would have been realized under the income tax rates in effect for the year 1993 without this income tax adjustment.

Third - Plus the applicable proportionate part of any directly allocable tax, impost, or assessment imposed or levied by any governmental authority, which is assessed or levied against the Company or directly affects the Company's cost of operation and which the Company is legally obligated to pay on the basis of meters, customers, or rates of, or revenue from electric power and energy or service sold, or on the volume of the energy generated, transported, purchased for sale, or sold, or on any other basis where direct allocation is possible.

V. CUSTOMER'S DEMAND

The average kW supplied during the fifteen-minute period of Customer's greatest use in the Day Hours (Day Load) of the current month plus 25% (for Primary Service) or 33 1/3% (in all other cases) of the amount by which the average kW supplied during the fifteen-minute period of Customer's greatest use in the Night Hours (Night Load) of the current month exceeds the Day Load, but not less than the highest of the following:

(1) 50% of the highest kW so established in the prior eleven months, or

(2) the minimum kW provided in the Agreement For Service, or

(3) 200 kW.

If the instantaneous load exceeds the highest average fifteen-minute load by an unusual amount, such instantaneous load may be taken as the demand used for billing.

DAY HOURS
Initially 7 a.m. to 9 p.m. C.S.T. (8 a.m. to 10 p.m. C.D.T.) Monday through Friday except holidays. These hours are subject to change by the Company upon thirty days' written notice, but shall not exceed fourteen hours per day.

NIGHT HOURS
All hours not designated as day hours.

VI. EXCESS KVAR

The average KVAR supplied during the 15-minute period of greatest KVAR use during the current month in excess of 60% of Customer's Demand for the current month. A KVAR meter will be installed where tests indicate a power factor less than 85%.

(Continued on next page)

VII. CONTRACT PERIOD

(1) Not less than five years and extended for one-year periods thereafter when new or additional facilities are involved, or

(2) as required by the currently effective Rider Schedules, or

(3) not less than one year for existing locations where no new or additional facilities are involved and extended for one-year periods thereafter.

VIII. RESERVATION

Subject to orders of regulatory authorities having jurisdiction and to the provisions of Company's Service Policy currently on file with the Mississippi Public Service Commission.

ENTERGY MISSISSIPPI, INC.	MISSISSIPPI PUBLIC SERVICE COMMISSION
	P.S.C. Schedule No. I-10
Date Filed: December 16, 2002	Revised Schedule No. 10, Date: December 31, 2002
Date to be Effective: December 31, 2002	Superseded Schedule No. 10, Date: September 28, 2001
Docket No.: 02-UN-0526	Schedule Consists of: Three Pages

GENERAL LIGHTING AND POWER SERVICE RATE SCHEDULE GS-295

I. AVAILABILITY

At any point on Company's existing distribution lines of adequate capacity and suitable voltage.

II. APPLICATION

To all electric service for which no specific schedule is provided, supplied at one point of delivery and measured through one kilowatt-hour meter.

Applicable to temporary, seasonal, standby, and supplementary service only in conjunction with the applicable rider for such service.

Not applicable for resale or shared service.

III. CHARACTER OF SERVICE

The service to be supplied will be 60 cycles at one nominal voltage as described in Company's Standards For Electrical Installations. Customers with individual motors with ratings of less than 5 horsepower or who have less than an aggregate motor rating of 10 horsepower will normally be provided with single phase service.

IV. NET MONTHLY RATE

A. RATE

$5.61	Customer Charge; plus
$0.093643	per kWh for the first 870 kWh*
$0.058641	per kWh for the next 7,000 kWh
$0.051932	per kWh for additional kWh except
$0.046689	per kWh for all kWh that is in excess of the greater of 60,000 kWh or 300 kWh per kW of Measured Load.
$0.34	per KVAR of Excess KVAR

*When the kW of measured load is above 6 kW, the $0.093643 block is increased at the rate of:

120 kWh per kW for the first 19 kW in excess of 6 kW
82 kWh per kW for the next 75 kW
74 kWh per kW for all additional kW

B. MINIMUM BILL

$5.61 for the first 10 kW or less of Capacity Requirement and $1.51 for each additional kW of Capacity Requirement but not less than $11.78 for three phase service. In addition to the foregoing, there will be added any applicable Facilities Charge.

C. FACILITIES CHARGE

In addition to the amount otherwise computed under the provisions of the net monthly rate included herein, the amount of any Facilities Charge applicable to such service, will be paid monthly. Such Facilities Charge shall be based upon the additional investment necessary to cover the cost of rendering said services.

(Continued on reverse side)

D. PRIMARY DELIVERY ADJUSTMENT
Where it is feasible and economical from the standpoint of efficient operation, Customer may elect to take service at the primary voltage that is available, or in Company's judgment, can be made available in the most practicable manner. When Customer contracts for 200 kW minimum billing basis at 12,500 volts or higher and provides all facilities necessary to take service at this voltage, the billing, before adjustments, will be reduced $0.34 per kW of Measured Load.

E. METERING ADJUSTMENT
Company may elect to measure such service on the secondary side of Customer's transformer installation. Where metering is at primary, the metering equipment installed will compensate for transformer losses or in lieu thereof an allowance of 1% will be made in the measured quantities.

F. OTHER ADJUSTMENTS
First - Plus or minus an amount determined in accordance with Company's effective Energy Cost Recovery Rider on file with the Mississippi Public Service Commission.

Second - Plus or minus a percentage adjustment on the pre-tax billing sufficient to compensate Company for any increase in income taxes above the 1993 level or to reduce Customer's billing to adjust for any decrease in any effective income tax rates.

Upon any change in the effective rates of income taxes the Company will file within 30 days the percentage adjustment to be applied for the remainder of the year based on operations for the prior calendar year. Subsequently the percentage adjustment to be applied during a year will be filed with the Commission prior to February 1 of each year and will be based on the prior calendar year's operations. The adjustment will be such percentage as may be necessary to obtain the same after-tax income under the effective tax rates as would have been realized under income tax rates in effect for the year 1993 without this income tax adjustment.

Third - Plus the applicable proportionate part of any directly allocable tax, impost, or assessment imposed or levied by any governmental authority, which is assessed or levied against the Company or directly affects the Company's cost of operation and which the Company is legally obligated to pay on the basis of meters, customers, or rates of, or revenue from electric power and energy or service sold, or on the volume of the energy generated, transported, purchased for sale, or sold, or on any other basis where direct allocation is possible.

V. MEASURED LOAD
The average kW supplied during the 15-minute period of greatest use during the current month, but not less than the higher of:

(1) the minimum kW specified in the Agreement For Service, or

(2) one-third of the Capacity Requirement.

VI. EXCESS KVAR
The average KVAR supplied during the 15-minute period of greatest KVAR use during the current month in excess of 60% of the Measured Load for the current month. A KVAR meter may be installed where tests indicate a power factor less than 85%.

 (Continued on next page)

VII. CAPACITY REQUIREMENT

The highest kW of Measured Load previously established, or the maximum kW specified in the Agreement For Service, whichever is the greater. In the event the instantaneous load of Customer's installation exceeds the Measured Load by an unusual amount, such instantaneous load may be taken as the Capacity Requirement.

VIII. CONTRACT PERIOD

(1) Not less than one year and extended for one-year periods thereafter when required by the currently effective Character of Service Available, or

(2) as required by the currently effective Rider Schedule, or

(3) when new or additional facilities are involved, an appropriate term contract may be required.

IX. RESERVATION

Subject to orders of regulatory authorities having jurisdiction and to the provisions of Company's Service Policy currently on file with the Mississippi Public Service Commission.

LARGE GENERAL SERVICE

Rate Zones 1 & 9

Transmission Service	40-632
Primary Service	40-602
Secondary Service	40-603

APPLICATION OF SCHEDULE: This schedule is applicable upon request for single and three-phase electric service supplied through one meter. This rate is not applicable for energy for resale, nor for municipal streetlighting. Emergency, supplementary or standby service will be supplied only in accordance with the terms applying to such service.

All equipment to be served must be of such voltage and electrical characteristics that it can be served from the circuit provided for the main part of the load and the electricity used properly measured by the meter ordinarily installed on such a circuit. If the equipment to be served is such that this is impossible, the customer must provide any necessary transformers, auto transformers or other devices suitable for connection to the circuit provided by the Company.

Intermittent and highly fluctuating loads requiring a separate service line or separate transformer may be served through a separate meter, on this rate, with a separate billing.

RATE:

Demand:		Transmission Service	Primary Service	Secondary Service
First 100	kw of billing demand	$7.80/kw	$8.20/kw	$8.65/kw
Excess	kw of billing demand	$6.60/kw	$6.95/kw	$7.30/kw
		PLUS:		
Energy:	kwh Charge	2.944¢	3.004¢	3.066¢
	All kwh over 360 per kw of billing demand	2.682¢	2.737¢	2.792¢

MONTHLY MINIMUM CHARGE: The demand charge, computed in accordance with the terms of this rate, or as negotiated between the customer and the Company.

LARGE GENERAL SERVICE (Continued)

DETERMINATION OF BILLING DEMAND: Otter Tail Power, at its option, will calculate the billing demand as: 1) the maximum kw as measured by a suitable demand meter for any period of 15 consecutive minutes during the months for which the bill is rendered adjusted for excess reactive demand; or 2) the standard minimum or the special minimum; or 3) the special billing demand as defined below.

(Standard Minimum) the greater of 80 kw or

25% of the first	500	kw plus
50% of the next	500	kw plus
75% of the excess		kw of billing demand in excess of 1000 kw, established during the preceding 11 months.

(Special Minimum)

The Company may negotiate with customers for a contract involving a special minimum charge based on either of the following conditions:

1. The customer has 500 kw or more of actual or requested capacity,
2. The ratio of the Company's investment in electric service equipment to the Company's projected annual revenue is greater than 2.0.

Interrelated locations of the same customer may be evaluated as one customer when determining the special minimum charge.

The special minimum amount is defined as the negotiated kw capacity computed in accordance with the demand portion of the rate and is subject to approval by the Minnesota Public Utilities Commission.

SPECIAL BILLING DEMAND: Upon customer request, Otter Tail Power may calculate the demand used for billing as the average of the previous twelve billing demands. The use of a special billing demand shall not exceed a period of six consecutive months. Otter Tail Power may agree to the use of the special billing demand upon conditions where customers have incurred, or can take advantage of, increased demand levels and the increased demand levels did not, or will not, increase Otter Tail Power's peak load. During the period under which the customer's billing demand is calculated in accordance to the provision of the Special Billing Demand, Otter Tail Power reserves the right to curtail the customer's additional demand (i.e., any demand over the special billing demand level) back to the customer's special billing demand in order to maintain the integrity of Otter Tail Power's generation and transmission systems.

LARGE GENERAL SERVICE (Continued)

ADJUSTMENT FOR EXCESS REACTIVE DEMAND: The billing demand shall be increased by 1 kw for each whole 10 kvar of reactive demand in excess of 50% of the measured demand in kw.

METERING: If it is impractical or impossible to measure the demand and the energy used with one meter or metering equipment, Otter Tail may, at its option, install separate meters and combine the readings of such meters before applying the rate. If this is done, no allowance shall be made for diversity but all demands and consumptions shall be added together to determine the totals on which billing will be made.

EMERGENCY, SUPPLEMENTARY OR STANDBY SERVICE: Emergency, supplementary or standby service will be provided only subject to individual negotiation, in each instance.

COST OF ENERGY ADJUSTMENT: The energy charges under this schedule are subject to a Cost of Energy Adjustment as provided for in Rate Designation M-60M, or any amendments or superseding provisions applicable thereto.

CUSTOMER CONNECTION CHARGE: Refer to Rate Schedule, Rate Designation M-61M and Payment Policy Rate Schedule, Rate Designation M-62M.

CUSTOMER SERVICE GUARANTEE: Refer to Rate Schedule, Rate Designation M-65M. Service connection will be made by the date promised or OTP will pay the customer $50.00 for each working day up to $250.00 that we are late. If repair to your rental security light is not made within 5 working days after notification, OTP will provide one month of free electric service for that unit. If your electric service bill is inaccurate, it will be corrected and we will award you 10 percent of the error, with the minimum being $10.00 and a maximum of $500.00. (Does not apply to estimated or prorated bills or self-read meters.) -N-

PAYMENT: Refer to Payment Policy Rate Schedule, Rate Designation M-62M, superseding amendments, or provisions allowed by law.

CONTRACT PERIOD: This rate is applicable only by signed agreement, setting forth the location and conditions applicable to the electric service, and providing for an initial minimum contract period of three years, unless otherwise authorized by Otter Tail.

REGULATIONS: General Rules and Regulations govern use under this schedule.

ADJUSTMENT FOR MUNICIPAL PAYMENTS: Bills under this rate schedule may be subject to adjustment for certain payments to municipalities as provided in the General Rules and Regulations.

TARIFF L.P.
(Large Power)

Availability of Service.

Available for general service. Customers shall contract for a definite amount of electrical capacity, in kilowatts, which shall be sufficient to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 2,000 kW. The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement.

Customer shall provide the necessary equipment to receive service at the voltage indicated below:

Monthly Rate.

	Primary	Subtransmission	Transmission
Tariff Codes:	306	308	310
Service Charge ($):	259.13	259.13	259.13
Demand Charge ($/kW):	15.73	14.93	14.16
Energy Charge (¢/kWh) On-Peak:	1.609	1.576	1.550
Off-Peak:	1.399	1.369	1.346
Nuclear Decommissioning Surcharge (¢/kWh):	0.228	0.228	0.228
Power Supply Cost Recovery Factor:	This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.		

For purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

(Cont'd on Sheet No. 38.1)

INDIANA MICHIGAN POWER COMPANY
STATE OF MICHIGAN
THREE RIVERS RATE AREA
(MERGER ORDER)

CANCELS SECOND REVISED SHEET NO. 38.1

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38)

Minimum Charge.

This tariff is subject to a minimum monthly charge equal to the monthly service charge plus the product of the demand charge and the monthly billing demand and adjustments for the Nuclear Decommissioning Surcharge, PSCR factor, and AEP/CSW Net Merger Savings Reduction Rider. The power factor clause shall not operate to change the monthly minimum charge. TN N

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total net bill shall be added to any bill which is not paid on or before the due date shown thereon as set forth in Section 19, Rule 5 (Sheet No. 3.75) of the Company's Terms and Conditions of Service. The due date shall be 21 days following the date of transmittal.

Monthly Billing Demand.

The billing demand in kW shall be taken each month as the average of the three highest 15-minute integrated peaks in kW, as registered during the month by a demand meter or indicator, subject to off-peak hour provision, but the monthly billing demand so established shall, in no event, be less than 60 percent of the customer's contract capacity. The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

Off-Peak Hour Provision.

Demand created during the off-peak hours (as set forth below) shall be disregarded for billing purposes provided that the billing demand shall not be less than 60 percent of the maximum demand created during the billing month nor less than 60 percent of the contract capacity.

The off-peak hour provision is subject to the availability of capacity in the Company's existing facilities.

The on-peak period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as all other hours in the week.

(Cont'd on Sheet No. 38.2)

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38.1)

Credits and Charges Modifying Rate.

Bills computed under the rate set forth herein will be modified by debits or credits as follows:

(A) Metered Voltage

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be adjusted for billing purposes. If the Company elects to adjust kWh and kW based on multipliers, the adjustment shall be in accordance with the following:

(1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.

(2) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

(B) Power Factor

The rate set forth in this tariff is based upon the maintenance by the customer of an average monthly power factor of 85 percent, leading or lagging, as shown by integrating instruments. When the average monthly power factor is above or below 85 percent, the total monthly charge, exclusive of the power supply cost recovery factor, will be multiplied by the constant, rounded to the nearest 0.0001, derived from the following formula:

$$\text{Constant} = 0.9510 + \left[0.1275 \left[\frac{\text{RKVAH}}{\text{KWH}} \right]^2 \right]$$

(Cont'd on Sheet No. 38.3)

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38.2)

Furnace Load Provision.

A reduced demand charge, as stated below, shall apply to service for operation of electric furnaces directly used in the metallurgical process where the demand for such load is separately metered. This provision shall apply only to electric furnace use with combined billing demand of 2,000 kW or more. The customer must provide special circuits in order that the Company may install separate metering for the furnace load. All other provisions of Tariff L.P. shall apply to the furnace load.

Service Voltage	Furnace Demand Charge ($/kW)
Primary	14.79
Subtransmission	14.03
Transmission	13.31

Term of Contract.

Contracts under this tariff will be made for an initial period of not less than two years and shall remain in effect thereafter until either party shall give at least one years' written notice to the other of the intention to discontinue service under the terms of this tariff. Where new facilities are required, the Company reserves the right to require initial contracts for periods of greater than two years.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

This tariff is also available to customers having other sources of energy supply, but who desire to purchase standby or backup service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in kW which the Company might be required to furnish, but not less than 2,000 kW. The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods, and the minimum charge shall be as set forth under paragraph "Minimum Charge" above.

(Cont'd on Sheet No. 38.4) N

(MERGER ORDER)

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38.3) N

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 49, 49.1, 49.2, and 49.3) is available to customers qualifying for service under the provisions of this tariff.

AEP/CSW Net Merger Savings Reduction Rider. N

This tariff is subject to the AEP/CSW Net Merger Savings Reduction Rider (Sheet No. 52). N

Availability of Service.

Available for general service. Customers shall contract for a definite amount of electrical capacity in kilowatts, which shall be sufficient to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 2,000 kW. The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement.

Customer shall provide the necessary equipment to receive service at the voltage indicated below.

Monthly Rate.

	Primary	Subtransmission	Transmission
Tariff Codes:	358	357	359
Service Charge ($):	259.13	259.13	259.13
Demand Charge ($/kW):	6.62	6.02	5.40

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37)

Rider. N

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total net bill shall be added to any bill which is not paid on or before the due date shown thereon as set forth in Section 19, Rule 5 (Sheet No. 3.75) of the Company's Terms and Conditions of Service. The due date shall be 21 days following the date of transmittal.

Monthly Billing Demand.

The billing demand in kW shall be taken each month as the average of the three highest 15-minute integrated peaks in kW, as registered during the month by a demand meter or indicator, subject to off-peak hour provision, but the monthly billing demand so established shall, in no event, be less than 65 percent of the customer's contract capacity, nor shall it be less than 2,000 kW. The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37.1)

(A) Metered Voltage.

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be adjusted for billing purposes. If the Company elects to [illegible]

and kW based on multipliers, the adjustment shall be in accordance with the following:

(1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.

(2) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

(B) Power Factor

This rate requires a determination of the average power factor maintained by the customer during the billing period. Such average power factor will be determined through metering kilovarhours and kilowatthours during the billing period. The calculated ratio of kilovarhours to kilowatthours will then be converted to the average power factor for the billing period by using appropriate conversion factor. Whenever the average power factor during the billing period is above .899 or below .85, the capacity charge will be adjusted as follows:

(1) If the average power factor during the billing period is .900 or higher, the demand charge will be reduced by 2 percent. This credit shall not in any case be used to reduce the prescribed minimum charge or the capacity charge when based upon 65 percent of the contract capacity.

STATE OF MICHIGAN
THREE RIVERS RATE AREA
(MERGER ORDER)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37.2)

(2) If the average power factor during the billing period is less than .85, the demand charge will be increased by the ratio that .85 bears to the customer's average power factor during the billing period.

Furnace Load Provision.

A reduced demand charge, as stated below, shall apply to service for operation of electric furnaces directly used in the metallurgical process where the demand for such load is separately metered. This provision shall apply only to electric furnace use with combined billing demand of 2,000 kW or more. The customer must provide special circuits in order that the Company may install separate metering for the furnace load. All other provisions of Tariff Q.P. shall apply to the furnace load.

Service Voltage	Furnace Demand Charge ($/kW)
Primary	6.20
Subtransmission	5.66
Transmission	5.08

Term of Contract.

Contracts under this tariff will be made for an initial period of not less than two years and shall remain in effect thereafter until either party shall give at least one years' written notice to the other of the intention to discontinue service under the terms of this tariff. Where new facilities are required, the Company reserves the right to require initial contracts for periods of greater than two years.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

(Cont'd on Sheet No. 37.4)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37.3)

but who desire to purchase standby or backup service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in kW which the Company might be required to furnish, but not less than 2,000 kW. The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods and the minimum charge shall be as set forth under paragraph "Minimum Charge" above.

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 49, 49.1, 49.2, and 49.3) is available to customers qualifying for service under the provisions of this tariff.

AEP/CSW Net Merger Savings Reduction Rider. N

This tariff is subject to the AEP/CSW Net Merger Savings Reduction Rider (Sheet No. 52). N

TARIFF L.G.S.
(Large General Service)

Availability of Service.

Available for general service. Customers shall contract for a definite amount of electrical capacity in kilowatts which shall be sufficient to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 100 kW, nor greater than 2,000 kW. The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement. Customers may continue to qualify for service under this tariff until their twelve month average demand exceeds 2,000 kW.

Monthly Rate.

		Secondary	Primary	Subtransmission
Tariff Codes:		240	244	248
Service Charge ($):		43.58	206.83	206.83
Demand Charge ($/kW):		8.92	8.06	7.74
Energy Charge (¢/kWh)	On-Peak:	4.583	4.340	4.261
	Off-Peak:	3.027	2.866	2.812
Nuclear Decommissioning Surcharge (¢/kWh):		0.294	0.294	0.294

D

Power Supply Cost Recovery Factor: This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16) of the Company's Terms and Conditions of Service.

For purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

Minimum and Maximum Charges.

Bills computed under the above rate are subject to the operation of minimum and maximum charge provisions as follows:

(A) Minimum Charge - The service charge plus the product of the demand charge and the monthly billing demand. The power

(Cont'd on Sheet No. 36.1)

M.P.S.C. NO. 12
INDIANA MICHIGAN POWER COMPANY
STATE OF MICHIGAN
THREE RIVERS RATE AREA
(MERGER ORDER)

THIRD REVISED SHEET NO. 36.1
CANCELS SECOND REVISED SHEET NO. 36.1

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36)

factor clause shall not operate to change the monthly minimum charge.

(B) Maximum Charge - The service charge plus 15.000¢ per kWh of billing energy and adjustments for the PSCR factor and AEP/CSW Net Merger Savings Reduction Rider. TN N

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total new bill shall be added to any bill which is not paid on or before the due date

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36.1)

Availability is limited to the first 25 customers applying for service under this provision and is subject to the availability of capacity in the Company's existing facilities.

The on-peak period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as all other hours in the week.

Credits and Charges Modifying Rate.

Bills computed under the rate set forth herein will be modified by debits or credits as follows:

(A) Metered Voltage

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be adjusted for billing purposes. If the Company elects to adjust kWh and kW based on multipliers, the adjustment shall be in accordance with the following:

(1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.

(2) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

(B) Power Factor

The rate set forth in this tariff is based upon the maintenance by the customer of an average monthly power factor of 85 percent, leading or lagging, as shown by integrating instruments. When the average monthly power factor is above or below 85 percent, the total monthly charge, exclusive of the power supply cost recovery factor, will be multiplied by the constant, rounded to the nearest 0.0001, derived from the following formula:

(Cont'd on Sheet No. 36.3)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36.2)

$$\text{Constant} = 0.9510 + \left[0.1275 \left[\frac{\text{RKVAH}}{\text{KWH}} \right]^2 \right]$$

Term of Contract.

Contracts under this tariff will be made for an initial period of not less than one year and shall remain in effect thereafter until either party shall give at least six months' written notice to the other of the intention to discontinue service under the terms of this tariff. Where new Company facilities are required, the Company reserves the right to require initial contracts for periods greater than one year.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

This tariff is available to customers having other sources of energy supply, but who desire to purchase standby or backup service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in kW which the Company might be required to furnish, but not less than 100 kW. The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods, and the minimum charge shall be as set forth under paragraph "Minimum and Maximum Charges" above.

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 49, 49.1, 49.2, and 49.3) is available to customers qualifying for service under the provisions of this tariff. T

(Cont'd on Sheet No. 36.4)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36.3)

Load Management Time-of-Day Provision.

[redacted]

with time-differentiated load characteristics approved by the Company, such as electric thermal storage space heating furnaces and water heaters which consume electrical energy only during off-peak hours specified by the Company.

Customers eligible to be served under this provision shall have the option of receiving service under Tariff L.G.S. for their general-use load by separately wiring this equipment to a standard meter. The service charge for the separate meter shall be $30.16 per customer per month.

Monthly Rate. (Tariff Code 251)

Service Charge:	$47.21 per customer per month
Energy Charge:	9.738¢ per kWh for all kWh consumed on-peak 1.785¢ per kWh for all kWh consumed off-peak
Nuclear Decommissioning Surcharge:	0.294¢ per kWh for all kWh consumed
Power Supply Cost Recovery Factor:	This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.

For purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

TARIFF L.G.S.
(Large General Service)

Availability of Service.

Available for general service customers with demands greater than 100 kW.

Monthly Rate.

	Secondary
Tariff Codes:	240 and 242
Service Charge ($):	72.25
Demand Charge ($/kW):	9.89
Energy Charge (¢/kWh):	
On-Peak	4.309
Off-Peak	1.572
Nuclear Decommissioning Surcharge (¢/kWh):	0.294
Power Supply Cost Recovery Factor:	This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.

For purpose of this tariff, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9 p.m. to 7 a.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

Minimum and Maximum Charges.

Bills computed under the above rate are subject to the operation of minimum and maximum charge provisions as follows:

(Cont'd on Sheet No. 12.1)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12)

(a) Minimum Charge - The sum of the service charge, the product of the demand charge and the monthly billing demand, and adjustments for the Nuclear Decommissioning Surcharge, PSCR factor, and AEP/CSW Net Merger Savings Reduction Rider. The power factor clause shall not operate to change the monthly minimum charge. TN N

(b) Maximum Charge - The sum of the service charge, 15.000¢ per kWh of billing energy, Nuclear Decommissioning Surcharge, PSCR factor, and AEP/CSW Net Merger Savings Reduction Rider. This provision shall not reduce the charge below the amount specified in the Minimum Charge provision above, (a). N N

Monthly Billing Demand.

Energy supplied hereunder will be delivered through not more than one single-phase or one polyphase meter. Billing demand in kW shall be taken each month as the single highest 15-minute integrated peak in kilowatts as registered during the month by a 15-minute integrating demand meter or indicator or, at the Company's option, as the highest registration of a thermal-type demand meter or indicator. Where energy is presently delivered through two meters, the billing demand will be taken as the sum of the two demands separately determined.

The minimum monthly billing demand established hereunder shall not be less than 60 percent of the greater of (a) the customer's contract capacity, (b) the customer's highest previously established monthly billing demand during the past 11 months or (c) 100 kW.

The minimum monthly billing demand shall not be less than 25 percent of the greater of (a) the customer's contract capacity, (b) the customer's highest previously established monthly billing demand during the past 11 months or (c) 100 kW during the billing months of May through November for customers with more than 50 percent of their connected load used for space heating purposes.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

(Cont'd on Sheet No. 12.2)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12.1)

Adjustments to Rate.

Bills computed under the rate set forth herein will be adjusted as follows:

A. Power Factor

The rate set forth in this tariff is subject to power factor adjustment based upon the maintenance by the customer of an average monthly power factor of 85 percent, leading or lagging, as measured by integrating meters. When the average monthly power factor is above or below 85 percent, leading or lagging, the total monthly charge, exclusive of PSCR, will be multiplied by the constant, rounded to the nearest 0.0001, derived from the following formula:

$$\text{Constant} = 0.9510 + \left[0.1275 \left[\frac{\text{RKVAH}}{\text{KWH}} \right]^2 \right]$$

Power factor adjustments as set forth above will not be made when minimum billing demands occur.

B. Metered Voltage

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be adjusted for billing purposes. If the Company elects to adjust kWh and kW based on multipliers, the adjustment shall be 0.98 when measurements are taken at the high-side of a Company-owned transformer.

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total net bill shall be added to any bill which is not paid on or before the due date shown thereon as set forth in Section 19, Rule 5 (Sheet No. 3.75), as applicable, of the Company's Terms and Conditions of Service. The due date shall be 21 days following the date of transmittal.

(Cont'd on Sheet No. 12.3)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12.2)

Term of Contract.

For customers with annual average demands greater than 500 kW, contracts will be required for an initial period of not less than one year and shall remain in effect thereafter until either party shall give at least six months' written notice to the other of the intention to discontinue service under the terms of this tariff. For customers with demands less than 500 kW, a written agreement may, at the Company's option, be required to fulfill the provisions of Item 1, 9, and/or 12 of the Terms and Conditions of Service.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required.

Where new Company facilities are required, the Company reserves the right to require initial contracts for periods greater than one year for all customers served under this tariff.

The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

This tariff is also available to customers having other sources of energy supply, but who desire to purchase standby or backup service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in kW which the Company might be required to furnish, but not less than 100 kW. The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods, and the minimum charge shall be as set forth under paragraph "Minimum Charge" above.

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

(Cont'd on Sheet No. 12.4)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12.3)

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 49, 49.1, 49.2, and 49.3) is available to customers qualifying for service under the provisions of this tariff.

Load Management Time-of-Day Provision.

Available to customers who use energy storage devices with time-differentiated load characteristics approved by the Company, such as electric thermal storage space

peak hours specified by the Company and store energy for use during on-peak hours.

Customers shall have the option of receiving service under the Tariff L.G.S. for their general-use load by separately wiring this equipment to a standard meter.

The customer shall be responsible for all local facilities required to take

TARIFF L.P.
(Large Power)

Availability of Service.

Available for general service. Customers shall contract for a definite amount of electrical capacity, in kilowatts, which shall be sufficient to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 2,000 kW. The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement.

Customer shall provide the necessary equipment to receive service at the voltage indicated below.

Monthly Rate.

		Primary	Subtransmission	Transmission
Tariff Codes:		306	308	310
Service Charge ($):		259.13	259.13	259.13
Demand Charge ($/kW):		15.73	14.93	14.16
Energy Charge (¢/kWh)	On-Peak:	1.609	1.576	1.550
	Off-Peak:	1.399	1.369	1.346
Nuclear Decommissioning Surcharge (¢/kWh):		0.228	0.228	0.228
Power Supply Cost Recovery Factor:		This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.		

For purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

(Cont'd on Sheet No. 38.1)

(MERGER ORDER)

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38)

Minimum Charge.

This tariff is subject to a minimum monthly charge equal to the monthly service charge plus the product of the demand charge and the monthly billing demand and adjustments for the Nuclear Decommissioning Surcharge, PSCR factor, and AEP/CSW Net Merger Savings Reduction Rider. The power factor clause shall not operate to change the monthly minimum charge. TN N

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total net bill shall be added to any bill which is not paid on or before the due date shown thereon as set forth in Section 19, Rule 5 (Sheet No. 3.75) of the Company's Terms and Conditions of Service. The due date shall be 21 days following the date of transmittal.

Monthly Billing Demand.

The billing demand in kW shall be taken each month as the average of the three highest 15-minute integrated peaks in kW, as registered during the month by a demand meter or indicator, subject to off-peak hour provision, but the monthly billing demand so established shall, in no event, be less than 60 percent of the customer's contract capacity. The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

Off-Peak Hour Provision.

Demand created during the off-peak hours (as set forth below) shall be disregarded for billing purposes provided that the billing demand shall not be less than 60 percent of the maximum demand created during the billing month nor less than 60 percent of the contract capacity.

The off-peak hour provision is subject to the availability of capacity in the Company's existing facilities.

The on-peak period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as all other hours in the week.

(Cont'd on Sheet No. 38.2)

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38.1)

Credits and Charges Modifying Rate.

Bills computed under the rate set forth herein will be modified by debits or credits as follows:

(A) Metered Voltage

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be adjusted for billing purposes. If the Company elects to adjust kWh and kW based on multipliers, the adjustment shall be in accordance with the following:

(1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01

(2) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

(B) Power Factor

The rate set forth in this tariff is based upon the maintenance by the customer of an average monthly power factor of 85 percent, leading or lagging, as shown by integrating instruments. When the average monthly power factor is above or below 85 percent, the total monthly charge, exclusive of the power supply cost recovery factor, will be multiplied by the constant, rounded to the nearest 0.0001

derived from the following formula:

$$\text{Constant} = 0.9510 + \left[0.1275 \left[\frac{\text{RKVAH}}{\text{KWH}} \right]^2 \right]$$

(Cont'd on Sheet No. 38.3)

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38.2)

Furnace Load Provision.

A reduced demand charge, as stated below, shall apply to service for operation of electric furnaces directly used in the metallurgical process where the demand for such load is separately metered. This provision shall apply only to electric furnace use with combined billing demand of 2,000 kW or more. The customer must

TARIFF L.P.
(Large Power)

(Cont'd from Sheet No. 38.3) N

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 49, 49.1, 49.2, and 49.3) is available to customers qualifying for service under the provisions of this tariff.

AEP/CSW Net Merger Savings Reduction Rider. N

This tariff is subject to the AEP/CSW Net Merger Savings Reduction Rider (Sheet No. 52). N

STATE OF MICHIGAN
THREE RIVERS RATE AREA
(MERGER ORDER)

TARIFF Q.P.
(Quantity Power)

Availability of Service.

Available for general service. Customers shall contract for a definite amount of electrical capacity in kilowatts, which shall be sufficient to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 2,000 kW. The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement.

Customer shall provide the necessary equipment to receive service at the voltage indicated below.

Monthly Rate.

	Primary	Subtransmission	Transmission
Tariff Order	[illegible]	[illegible]	[illegible]
Service Charge ($):	259.13	259.13	259.13
Demand Charge ($/kW):	6.62	6.02	5.40
Energy Charge (¢/kWh):	3.134	3.074	3.027
Nuclear Decommissioning Surcharge (¢/kWh):	0.235	0.235	0.235
Power Supply Cost Recovery Factor:	This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.		

For purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

Minimum Charge.

This tariff is subject to a minimum monthly charge equal to the monthly service charge plus the product of the demand charge and the monthly billing demand. The minimum monthly charge so determined shall be subject to adjustments for the Nuclear

(Cont'd on Sheet No. 37.1)

(MERGER ORDER)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37)

Decommissioning Surcharge, PSCR Factor, and AEP/CSW Net Merger Savings Reduction Rider. TN N

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total net bill shall be added to any bill which is not paid on or before the due date shown thereon as set forth in Section 19, Rule 5 (Sheet No. 3.75) of the Company's Terms and Conditions of Service. The due date shall be 21 days following the date of transmittal.

Monthly Billing Demand.

The billing demand in kW shall be taken each month as the average of the three highest 15-minute integrated peaks in kW, as registered during the month by a demand meter or indicator, subject to off-peak hour provision, but the monthly billing demand so established shall, in no event, be less than 65 percent of the customer's contract capacity, nor shall it be less than 2,000 kW. The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

Off-Peak Hour Provision.

Demand created during the off-peak hours (as set forth below) shall be disregarded for billing purposes provided that the billing demand shall not be less than 50 percent of the maximum demand created during the billing month, nor less than 65 percent of the contract capacity, nor less than 2,000 kW.

The off-peak hour provision is subject to the availability of capacity in the Company's existing facilities.

The on-peak period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as all other hours in the week.

Credits and Charges Modifying Rate.

Bills computed under the rates set forth herein will be modified by debits or credits as follows:

(Cont'd on Sheet No. 37.2)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37.1)

(A) Metered Voltage.

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be adjusted for billing purposes. If the Company elects to adjust kWh and kW based on multipliers, the adjustment shall be in accordance with the following:

(1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.

(2) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

(B) Power Factor

This rate requires a determination of the average power factor maintained by the customer during the billing period. Such average power factor will be determined through metering kilovarhours and kilowatthours during the billing period. The calculated ratio of kilovarhours to kilowatthours will then be converted to the average power factor for the billing period by using appropriate conversion factor. Whenever the average power factor during the billing period is above .899 or below .85, the capacity charge will be adjusted as follows:

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37.2)

(2) If the average power factor during the billing period is less than .85, the demand charge will be increased by the ratio that .85 bears to the customer's average power factor during the billing period.

Furnace Load Provision.

A reduced demand charge, as stated below, shall apply to service for operation of electric furnaces directly used in the metallurgical process where the demand for such load is separately metered. This provision shall apply only to electric furnace use with combined billing demand of 2,000 kW or more. The customer must provide special circuits in order that the Company may install separate metering for the furnace load. All other provisions of Tariff Q.P. shall apply to the furnace load.

Service Voltage	Furnace Demand Charge ($/kW)
Primary	6.20
Subtransmission	5.66
Transmission	5.08

Term of Contract.

Contracts under this tariff will be made for an initial period of not less than two years and shall remain in effect thereafter until either party shall give at least one years' written notice to the other of the intention to discontinue service under the terms of this tariff. Where new facilities are required, the Company reserves the right to require initial contracts for periods of greater than two years.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

(Cont'd on Sheet No. 37.4)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 37.3)

This tariff is available to customers having other sources of energy supply, but who desire to purchase standby or backup service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in kW which the Company might be required to furnish, but not less than 2,000 kW. The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods and the minimum charge shall be as set forth under paragraph "Minimum Charge" above.

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 49, 49.1, 49.2, and 49.3) is available to customers qualifying for service under the provisions of this tariff.

AEP/CSW Net Merger Savings Reduction Rider. N

This tariff is subject to the AEP/CSW Net Merger Savings Reduction Rider (Sheet No. 52). N

TARIFF L.G.S.

(Large General Service)

Availability of Service.

Available for general service. Customers shall contract for a definite amount of electrical capacity in kilowatts which shall be sufficient to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 100 kW, nor greater than 2,000 kW. The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement. Customers may continue to qualify for service under this tariff until their twelve month average demand exceeds 2,000 kW.

Monthly Rate.

		Secondary	Primary	Subtransmission
Tariff Codes:		240	244	248
Service Charge ($):		43.58	206.83	206.83
Demand Charge ($/kW):		8.92	8.06	7.74
Energy Charge (¢/kWh)	On-Peak:	4.583	4.340	4.261
	Off-Peak:	3.027	2.866	2.812
Nuclear Decommissioning Surcharge (¢/kWh):		0.294	0.294	0.294

D

Power Supply Cost Recovery Factor: This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16) of the Company's Terms and Conditions of Service.

For purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

Minimum and Maximum Charges.

Bills computed under the above rate are subject to the operation of minimum and maximum charge provisions as follows:

(A) Minimum Charge - The service charge plus the product of the demand charge and the monthly billing demand. The power

(Cont'd on Sheet No. 36.1)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36)

factor clause shall not operate to change the monthly minimum charge.

(B) Maximum Charge - The service charge plus 15.000¢ per kWh of billing energy and adjustments for the PSCR factor and AEP/CSW Net Merger Savings Reduction Rider. TN N

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total new bill shall be added to any bill which is not paid on or before the due date shown thereon as set forth in Section 19, Rule 5 (Sheet No. 3.75) of the Company's Terms and Conditions of Service. The due date shall be 21 days following the date of transmittal.

Measurement of Energy and Determination of Demand.

Energy supplied hereunder will be delivered through not more than one power meter, but energy for incidental lighting may be delivered through a separate lighting meter. Customer demand in kW shall be taken monthly to be the highest registration of a 15-minute integrating demand meter or indicator or the highest registration of a thermal-type demand meter or indicator.

Where energy is delivered through two meters, the billing demand will be taken as the sum of the two demands separately determined. Monthly billing demand established hereunder shall not be less than the customer's contract capacity. However, when the customer purchases his entire requirements for electric light, heat, and power under this tariff, then the monthly billing demand shall not be less than 60 percent of the contract capacity. If more than 50 percent of the customer's connected load is for electric space heating purposes, the minimum monthly billing demand will be 25 percent of the contract capacity for the billing months of June through October. The metered voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

Off-Peak Hour Provision.

Demand created during the off-peak hours (as set forth below) shall be disregarded for billing purposes provided that the billing demand shall not be less than 60 percent of the maximum demand created during the billing month nor less than 60 percent of the contract capacity.

(Cont'd on Sheet No. 36.2)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36.1)

Availability is limited to the first 25 customers applying for service under this provision and is subject to the availability of capacity in the Company's existing facilities.

The on-peak period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as all other hours in the week.

Credits and Charges Modifying Rate.

Bills computed under the rate set forth herein will be modified by debits or credits as follows:

(A) Metered Voltage

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36.2)

$$\text{Constant} = 0.9510 + \left[0.1275 \left[\frac{\text{RKVAH}}{\text{KWH}} \right]^2 \right]$$

Term of Contract.

Contracts under this tariff will be made for an initial period of not less than one year and shall remain in effect thereafter until either party shall give at least six months' written notice to the other of the intention to discontinue service under the terms of this tariff. Where new Company facilities are required, the Company reserves the right to require initial contracts for periods greater than one year.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

This tariff is available to customers having other sources of energy supply, but who desire to purchase standby or backup service from the Company. Where such

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 36.3)

Load Management Time-of-Day Provision.

Available to customers who use energy storage or other load management devices with time-differentiated load characteristics approved by the Company, such as electric thermal storage space heating furnaces and water heaters which consume electrical energy only during off-peak hours specified by the Company.

Customers eligible to be served under this provision shall have the option of receiving service under Tariff L.G.S. for their general-use load by separately wiring this equipment to a standard meter. The service charge for the separate meter shall be $30.16 per customer per month.

Monthly Rate. (Tariff Code 251)

Service Charge:	$47.21 per customer per month
Energy Charge:	9.738¢ per kWh for all kWh consumed on-peak 1.785¢ per kWh for all kWh consumed off-peak
Nuclear Decommissioning Surcharge:	0.294¢ per kWh for all kWh consumed
Power Supply Cost Recovery Factor:	This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.

For purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

AEP/CSW Net Merger Savings Reduction Rider. N

This tariff is subject to the AEP/CSW Net Merger Savings Reduction Rider (Sheet No. 52). N

TARIFF L.G.S.
(Large General Service)

Availability of Service.

Available for general service customers with demands greater than 100 kW.

Monthly Rate.

	Secondary
Tariff Codes:	240 and 242
Service Charge ($):	72.25
Demand Charge ($/kW):	9.89
Energy Charge (¢/kWh):	
On-Peak	4.309
Off-Peak	1.572
Nuclear Decommissioning Surcharge (¢/kWh):	0.294
Power Supply Cost Recovery Factor:	This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.

For purpose of this tariff, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9 p.m. to 7 a.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

Minimum and Maximum Charges.

Bills computed under the above rate are subject to the operation of minimum and maximum charge provisions as follows:

(Cont'd on Sheet No. 12.1)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12)

(a) Minimum Charge - The sum of the service charge, the product of the demand charge and the monthly billing demand, and adjustments for the Nuclear Decommissioning Surcharge, PSCR factor, and AEP/CSW Net Merger Savings Reduction Rider. The power factor clause shall not operate to change the monthly minimum charge. TN N

(b) Maximum Charge - The sum of the service charge, 15.000¢ per kWh of billing energy, Nuclear Decommissioning Surcharge, PSCR factor, and AEP/CSW Net Merger Savings Reduction Rider. This provision shall not reduce the charge below the amount specified in the Minimum Charge provision above, (a). N N

Monthly Billing Demand.

Energy supplied hereunder will be delivered through not more than one single-phase or one polyphase meter. Billing demand in kW shall be taken each month as the single highest 15-minute integrated peak in kilowatts as registered during the month by a 15-minute integrating demand meter or indicator or, at the Company's option, as the highest registration of a thermal-type demand meter or indicator. Where energy is presently delivered through two meters, the billing demand will be taken as the sum of the two demands separately determined.

The minimum monthly billing demand established hereunder shall not be less than 60 percent of the greater of (a) the customer's contract capacity, (b) the customer's highest previously established monthly billing demand during the past 11 months or (c) 100 kW.

The minimum monthly billing demand shall not be less than 25 percent of the greater of (a) the customer's contract capacity, (b) the customer's highest previously established monthly billing demand during the past 11 months or (c) 100 kW during the billing months of May through November for customers with more than 50 percent of their connected load used for space heating purposes.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

(Cont'd on Sheet No. 12.2)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12.1)

Adjustments to Rate.

Bills computed under the rate set forth herein will be adjusted as follows:

A. Power Factor

The rate set forth in this tariff is subject to power factor adjustment based upon the maintenance by the customer of an average monthly power factor of 85 percent, leading or lagging, as measured by integrating meters. When the average monthly power factor is above or below 85 percent, leading or lagging, the total monthly charge, exclusive of PSCR, will be multiplied by the constant, rounded to the nearest 0.0001, derived from the following formula:

$$\text{Constant} = 0.9510 + \left[0.1275 \left[\frac{\text{RKVAH}}{\text{KWH}} \right]^2 \right]$$

Power factor adjustments as set forth above will not be made when minimum billing demands occur.

B. Metered Voltage

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered quantities. In such cases, the metered kWh and kW values will be adjusted for billing purposes. If the Company elects to adjust kWh and kW based on multipliers, the adjustment shall be 0.98 when measurements are taken at the high-side of a Company-owned transformer.

Delayed Payment Charge.

A delayed payment charge of 2 percent of the total net bill shall be added to any bill which is not paid on or before the due date shown thereon as set forth in Section 19, Rule 5 (Sheet No. 3.75), as applicable, of the Company's Terms and Conditions of Service. The due date shall be 21 days following the date of transmittal.

(Cont'd on Sheet No. 12.3)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12.2)

Term of Contract.

For customers with annual average demands greater than 500 kW, contracts will be required for an initial period of not less than one year and shall remain in effect thereafter until either party shall give at least six months' written notice to the other of the intention to discontinue service under the terms of this tariff. For customers with demands less than 500 kW, a written agreement may, at the Company's option, be required to fulfill the provisions of Item 1, 9, and/or 12 of the Terms and Conditions of Service.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required.

Where new Company facilities are required, the Company reserves the right to require initial contracts for periods greater than one year for all customers served under this tariff.

The Company may not be required to supply capacity in excess of that contracted for except by mutual agreement.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

This tariff is also available to customers having other sources of energy supply, but who desire to purchase standby or backup service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in kW which the Company might be required to furnish, but not less than 100 kW. The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods, and the minimum charge shall be as set forth under paragraph "Minimum Charge" above.

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

(Cont'd on Sheet No. 12.4)

TARIFF L.G.S.
(Large General Service)

(Cont'd from Sheet No. 12.3)

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 49, 49.1, 49.2, and 49.3) is available to customers qualifying for service under the provisions of this tariff.

Load Management Time-of-Day Provision.

Available to customers who use energy storage devices with time-differentiated load characteristics approved by the Company, such as electric thermal storage space heating furnaces and water heaters which consume electrical energy only during off-peak hours specified by the Company and store energy for use during on-peak hours.

Customers shall have the option of receiving service under the Tariff L.G.S. for their general-use load by separately wiring this equipment to a standard meter

The customer shall be responsible for all local facilities required to take service under this provision.

Monthly Rate. (Tariff Code 251)

Service Charge:	$63.15 per customer per month
Energy Charge:	8.872¢ per kWh for all on-peak kWh 1.884¢ per kWh for all off-peak kWh
Nuclear Decommissioning Surcharge:	0.294¢ per kWh for all kWh
Power Supply Cost Recovery Factor:	This rate is subject to the Company's Power Supply Cost Recovery Clause, Section 17 (Sheet No. 3.16), of the Company's Terms and Conditions of Service.

For the purpose of this provision, the on-peak and off-peak billing periods are the same as previously described in this tariff.

AEP/CSW Net Merger Savings Reduction Rider.

This tariff is subject to the AEP/CSW Net Merger Savings Reduction Rider (Sheet No. 52). N N

SOUTHWESTERN ELECTRIC POWER COMPANY

TARIFF FOR ELECTRIC SERVICE
Applicable: Louisiana Service Territory
Section: A Sheet: 6 Page 1 of 2
Section Title: Rate Schedules
Order No. Effective Date: Cycle 01 December 1999

LARGE LIGHTING AND POWER SERVICE (LLP)

AVAILABILITY

This schedule is available to all customers on an annual basis for transmission service where facilities of adequate capacity and suitable phase and voltage are available. Service will be supplied at one point of delivery through one meter. This schedule is available for Billing Demands of 10,000 kilowatts or greater. Metering will be at or adjusted to the service voltage.

NET MONTHLY RATE

Kilowatt Charge:

$4.65 for each Kilowatt of Billing Demand but not less than $46,500

Kilowatt-hour Charge:

1.20¢ each for the first 500,000 kilowatt-hours
0.70¢ each for the next 4,500,000 kilowatt-hours
0.65¢ each for all additional kilowatt-hours

Determination of Kilowatts of Billing Demand:

The Kilowatts of Billing Demand for each month will be the average kilowatt load used by the Customer during the 15-minute period of maximum use during the twelve-month period ending with the current month but not less than 80% of the contracted load. The Kilowatts of Billing Demand will be subject to the Power Factor Adjustment Clause.

Capacity Charge for Highly Fluctuating Loads:

Should the Customer operate equipment with highly fluctuating, intermittent, or abnormal characteristics that make it necessary for the Company to install special facilities to serve the Customer or to prevent disturbances to the service to other Customers, an additional charge

SOUTHWESTERN ELECTRIC POWER COMPANY

TARIFF FOR ELECTRIC SERVICE
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Power Factor Adjustment:

The Company reserves the right to determine the power factor of the Customer's installation served hereunder. Should the power factor at the time of establishment of any 15 minute period of maximum use during the month be determined to be below 90%, the Customer's Kilowatts of Billing Demand will be adjusted by multiplying the Kilowatts of Billing Demand by 90% and dividing the result by the actual power factor at the time of maximum use.

Adjustments:

Fuel Adjustment:
In addition to all other charges, the amount of the Customer's bill will be adjusted by an amount per kilowatt-hour calculated according to the formula in the Fuel Adjustment Rider - Louisiana.

Tax Adjustment:
Total billing will be increased by the proportionate part of any new tax or increased rate of tax as provided in the Tax Adjustment Rider - Louisiana.

PAYMENT FOR SERVICE

Customers who pay within 20 days of the date of the bill will pay the net bill computed on the Net Monthly Rate. The gross bill will be payable after 20 days of the date of the bill. The gross bill will be the total net bill plus the sum equivalent to 3 percent of the total net bill.

TERMS AND CONDITIONS

Service will be furnished under the Company's Standard Terms and Conditions.

SOUTHWESTERN ELECTRIC POWER COMPANY

TARIFF FOR ELECTRIC SERVICE
Applicable: Louisiana Service Territory
Section: A Sheet: 5 Page 1 of 2
Section Title: Rate Schedules
Order No. Effective Date: Cycle 01 December 1999

LIGHTING AND POWER SERVICE (LP)

AVAILABILITY

This schedule is available to all customers, except multiple dwellings or apartment houses, on an annual basis for service for lighting, heating and power or combination of lighting, heating and power where facilities of adequate capacity and suitable phase and voltage are available. Service will be supplied at one point of delivery through one meter.

NET MONTHLY RATE

Secondary Service:

[redacted] Kilowatt Charge:
$5.50 for each Kilowatt of Billing Demand but not less than $275.00.

Kilowatt-hour Charge:
1.30¢ each for the first 500,000 kilowatt-hours
0.85¢ each for the next 4,500,000 kilowatt-hours
0.80¢ each for all additional kilowatt-hours

Primary Service:

Kilowatt Charge:
$5.00 for each Kilowatt of Billing Demand but not less than $250.00.

Kilowatt-hour Charge:
1.25¢ each for the first 500,000 kilowatt-hours
0.80¢ each for the next 4,500,000 kilowatt-hours
0.75¢ each for all additional kilowatt-hours

Minimum Monthly Bill:
The Minimum Monthly Bill will be the Kilowatt Charge, but not less than the charge for the maximum Kilowatts of Billing Demand established during the 11 preceding months.

Determination of Kilowatts of Billing Demand:
The Kilowatts of Billing Demand for each month will be the average kilowatt load used by the Customer during the 15-minute period of maximum use during the month. The Kilowatts of Billing Demand will be subject to the Power Factor Adjustment Clause.

SOUTHWESTERN ELECTRIC POWER COMPANY

TARIFF FOR ELECTRIC SERVICE
Applicable: Louisiana Service Territory
Section: A Sheet: 5 Page 2 of 2
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Capacity Charge for Highly Fluctuating Loads:
Should the Customer operate equipment with highly fluctuating, intermittent, or abnormal characteristics that make it necessary for the Company to install special facilities to serve the Customer or to prevent disturbances to the service to other Customers, an additional charge of $1.00 per month per kilovolt-ampere (KVA) or fraction thereof of transformer capacity installed by the Company to serve the Customer will be added to the Customer's bill.

Power Factor Adjustment:
The Company reserves the right to determine the power factor of the Customer's installation served hereunder. Should the average lagging power factor during the month be determined to be below 90%, the Customer's Kilowatts of Billing Demand will be adjusted by multiplying the Kilowatts of Billing Demand by 90% and dividing by the average lagging power factor.

Adjustments:

Fuel Adjustment:
In addition to all other charges, the amount of bill will be adjusted by an amount per kilowatt-hour calculated according to the formula in the Fuel Adjustment Rider - Louisiana.

Tax Adjustment:
In addition to all other charges, the amount of the customer's bill will be increased by the proportionate part of any new tax or increased rate of tax in accordance with the Tax Adjustment Rider - Louisiana.

PAYMENT FOR SERVICE

Customers who pay within 20 days of the date of the bill will pay the net bill computed on the Net Monthly Rate. The gross bill will be payable after 20 days of the date of the bill. The gross bill will be the total net bill plus the sum equivalent to 3 of the total net bill.

TERMS AND CONDITIONS

Service will be furnished under the Company's Standard Terms and Conditions.

SOUTHWESTERN ELECTRIC POWER COMPANY

TARIFF FOR ELECTRIC SERVICE
Applicable: Louisiana Service Territory
Section: A Sheet: 2 Page 1 of 2
Section Title: Rate Schedules
Order No. Effective Date: Cycle 01 December 1999

GENERAL SERVICE (GS 020)

AVAILABILITY

This schedule is available to all Customers except multiple dwellings or apartment houses, on an annual basis for lighting, heating and power, or combination of lighting, heating and power where facilities of adequate capacity and suitable phase and voltage are available. Service furnished under this schedule will be supplied at one point of delivery through one meter and is available for secondary and primary service. This schedule is available for customers with a maximum demand of up to 50 kilowatts.

NET MONTHLY RATE

Customer Charge: $13.30 per meter

Kilowatt-hour Charge:

5.17¢ each for the first 2,000 kilowatt-hours
4.15¢ each for all additional kilowatt-hours

Minimum Monthly Bill:

$1.75 per month per horsepower connected.
(When equipment is rated in terms of kilowatts or KVA, 3/4 kilowatt or KVA will be considered as equal to one horsepower.)

Capacity Charge for Highly Fluctuating Loads:

Should the Customer operate equipment with highly fluctuating, intermittent, or abnormal characteristics that make it necessary for the Company to install special facilities to serve the Customer or to prevent disturbances to the service to other Customers, an additional charge of $1.00 per month per kilovolt-ampere (KVA) or fraction thereof of transformer capacity installed by the Company to serve the Customer will be added to the Customer's bill.

SOUTHWESTERN ELECTRIC POWER COMPANY

TARIFF FOR ELECTRIC SERVICE
Applicable: Louisiana Service Territory
Section: A Sheet: 2 Page 2 of 2
Section Title: Rate Schedules
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Adjustments:

Fuel Adjustment:
In addition to all other charges, the amount of the Customer's bill will be adjusted by an amount per kilowatt-hour calculated according to the formula in the Fuel Adjustment Rider - Louisiana.

Tax Adjustment:
Total billing will be increased by the proportionate part of any new tax or increased rate of tax as provided in the Tax Adjustment Rider - Louisiana.

PAYMENT FOR SERVICE

Customers who pay within 20 days of the date of the bill will pay the net bill computed on the Net Monthly Rate. The gross bill will be payable after 20 days of the date of the bill. The gross bill will be the total net bill plus the sum equivalent to 3 percent of the total net bill.

TERMS AND CONDITIONS

Service will be furnished under the Company's Standard Terms and Conditions.

SOUTHWESTERN ELECTRIC POWER COMPANY
TARIFF FOR ELECTRIC SERVICE
Applicable: Louisiana Service Territory
Section: A Sheet: 4 Page 1 of 2
Section Title: Rate Schedules
Order No. Effective Date: Cycle 01 December 1999

GENERAL LIGHTING AND POWER SERVICE (GLP)

AVAILABILITY

This schedule is available to all Customers except multiple dwellings or apartment houses, on an annual basis for secondary service for lighting, heating and power, or combination of lighting, heating and power where facilities of adequate capacity and suitable phase and voltage are available. Service will be supplied at one point of delivery through one meter.

NET MONTHLY RATE

Kilowatt Charge:

$5.50 for each Kilowatt of Maximum Billing Demand, but not less than $27.50

Kilowatt-hour Charge:

2.11¢ per kilowatt-hour

Minimum Monthly Bill:

The Minimum Monthly Bill will be the Kilowatt Charge, but not less than the charge for the maximum Kilowatts of Billing Demand established during the 11 preceding months.

Determination of Kilowatts of Billing Demand:

The Kilowatts of Billing Demand for each month will be the average kilowatt load used by

SOUTHWESTERN ELECTRIC POWER COMPANY

TARIFF FOR ELECTRIC SERVICE
Applicable: Louisiana Service Territory
Section: A Sheet: 4 Page 2 of 2
Section Title: Rate Schedules
Order No. Effective Date: Cycle 01 December 1999

Power Factor Adjustment:

The Company reserves the right to determine the power factor of the Customer's installation served hereunder. Should the average lagging power factor during the month be determined to be below 90%, the Customer's Kilowatts of Billing Demand will be adjusted by multiplying the Kilowatts of Billing Demand by 90% and dividing by the average lagging power factor.

Adjustments:

Fuel Adjustment:
In addition to all other charges, the amount of the Customer's bill will be adjusted by an amount per kilowatt-hour calculated according to the formula in the Fuel Adjustment Rider - Louisiana.

Tax Adjustment:
Total billing will be increased by the proportionate part of any new tax or increased rate of tax as provided in the Tax Adjustment Rider - Louisiana.

PAYMENT FOR SERVICE

Customers who pay within 20 days of the date of the bill will pay the net bill computed on the Net Monthly Rate. The gross bill will be payable after 20 days of the date of the bill. The gross bill will be the total net bill plus the sum equivalent to 3 percent of the total net bill.

TERMS AND CONDITIONS

Service will be furnished under the Company's Standard Terms and Conditions.

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ARKANSAS PUBLIC SERVICE COMMISSION

Original	**Sheet No: 25**	**Sheet 3 of 3 Sheets**
Replacing:	**Sheet No:**	
Name of Company: SOUTHWESTERN ELECTRIC POWER COMPANY		
Kind of Service: Electric		**Class of Service:** As Applicable
Part III. Rate Schedule No. 6		
Title: LIGHTING AND POWER - YEAR 2		

PSC File Mark Only

during the month be determined to be below 90%, the Customer's Kilowatts of Billing Demand will be adjusted by multiplying the Kilowatts of Billing Demand by 90% and dividing by the average lagging power factor.

Primary Service: Applicable when electric service is provided at the Company's primary distribution voltage of 12.5 kV or higher and the Customer furnishes and maintains all necessary transformation equipment beyond this point.

Adjustments:

Fuel Adjustment: In addition to all other charges, the amount of the Customer's bill will be adjusted by an amount per kilowatthour calculated according to the formula in the Energy Cost Recovery Rider - Arkansas.

Tax Adjustment: In addition to all other charges, the amount of the Customer's bill will be increased by the proportionate part of any new tax or increased rate of tax in accordance with the Tax Adjustment Rider - Arkansas.

PAYMENT FOR SERVICE

Customers who pay within 22 days of the date of the bill will pay the net bill computed on the Net Monthly Rate. The gross bill will be payable after 22 days of the date of the bill. The gross bill will be the total net bill plus the sum of 10 percent of the first $30 of the net bill plus 2 percent of the amount over $30.

TERMS AND CONDITIONS

Service will be furnished under Company's Standard Terms and Conditions.

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ARKANSAS PUBLIC SERVICE COMMISSION

Original	**Sheet No: 27**	**Sheet 2 of 4 Sheets**
Replacing:	**Sheet No:**	
Name of Company: SOUTHWESTERN ELECTRIC POWER COMPANY		
Kind of Service: Electric		**Class of Service:** As Applicable
Part III. Rate Schedule No. 7		
Title: LARGE LIGHTING AND POWER - YEAR 2		

PSC File Mark Only

October through April Billing Cycles:
$42,200 for the first 10,000 Kilowatts of Billing Demand or less in the month.

$4.22 each for all kilowatts in excess of 10,000 Kilowatts of Billing Demand in the month.

0.36¢ per kilowatthour

Transmission Service:

May through September Billing Cycles: .
$51,200 for the first 10,000 Kilowatts of Billing Demand or less in the month.

$5.12 each for all kilowatts in excess of 10,000 Kilowatts of Billing Demand in the month.

1.29¢ per kilowatthour

October through April Billing Cycles:
$38,700 for the first 10,000 Kilowatts of Billing Demand or less in the month.

$3.87 each for all kilowatts in excess of 10,000 Kilowatts of Billing Demand in the month.

0.35¢ per kilowatthour

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ARKANSAS PUBLIC SERVICE COMMISSION

Original	**Sheet No: 28**	**Sheet 3 of 4 Sheets**
Replacing:	**Sheet No:**	
Name of Company:	**SOUTHWESTERN ELECTRIC POWER COMPANY**	
Kind of Service: Electric		**Class of Service: As Applicable**
Part III. Rate Schedule No. 7		
Title: LARGE LIGHTING AND POWER - YEAR 2		

PSC File Mark Only

Determination of Kilowatts of Billing Demand: The Kilowatts of Billing Demand for each month will be the average kilowatt load used by the Customer during the 15-minute period of maximum use during the month but not less than 80% of the highest Kilowatts of Billing Demand established during the 11 preceding months. The Kilowatts of Billing Demand will be subject to the Power Factor Adjustment Clause.

Capacity Charge for Highly Fluctuating Loads: Should the Customer operate equipment with highly fluctuating, intermittent, or abnormal characteristics that make it necessary for the Company to install special facilities to serve the Customer or to prevent disturbances to the service to other Customers, an additional charge of $1.00 per month per kilovolt-ampere (kVA) or fraction thereof of transformer capacity installed by the Company to serve the Customer will be added to the Customer's bill.

Power Factor Adjustment: The Company reserves the right to determine the power factor of the Customer's installation served hereunder. Should the power factor at the time of establishment of any 15 minute period of maximum use during the month be determined to be below 90%, the Customer's Kilowatts of Billing Demand will be adjusted by multiplying the Kilowatts of Billing Demand by 90% and dividing the result by the actual power factor at the time of maximum use.

Transmission Service: Applicable when electric service is provided at the Company's available transmission voltages of 69 kV or higher and the Customer furnishes and maintains all necessary transformation equipment beyond this point.

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ARKANSAS PUBLIC SERVICE COMMISSION

Original	**Sheet No: 20**	**Sheet 1 of 3 Sheets**
Replacing:	**Sheet No:**	
Name of Company: SOUTHWESTERN ELECTRIC POWER COMPANY		
Kind of Service: Electric		**Class of Service:** As Applicable
Part III. Rate Schedule No. 5		
Title: GENERAL SERVICE - YEAR 2		

PSC File Mark Only

AVAILABILITY

This rate schedule is available to all Customers except multiple dwellings or apartment houses, on an annual basis for secondary service for lighting, heating and power, or combination of lighting, heating and power where facilities of adequate capacity and suitable phase and voltage are available. Service will be supplied at one point of delivery through one meter. This schedule is available for Demand up to 50 kilowatts.

TARIFF IMPLEMENTATION

As specified in Order 8 for Docket No. 98-339-U, the implementation of the General Service tariff will occur over a two-year period. Year 1 begins with the December 1999 billing period and Year 2 begins with the December 2000 billing period. THIS IS A YEAR 2 TARIFF.

NET MONTHLY RATE

Customer Charge:	$7.50 per meter, plus $3.69 for each Kilowatt of Billing Demand in excess of 6 Kilowatts of Billing Demand
Kilowatthour Charge:	May through September Billing Cycles 2.67¢ per kilowatthour
	October through April Billing cycles 2.23¢ per kilowatthour

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NOV 22 1999 ORDER 9 98-339 U

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ARKANSAS PUBLIC SERVICE COMMISSION

Original	**Sheet No: 21**	**Sheet 2 of 3 Sheets**
Replacing:	**Sheet No:**	
Name of Company: SOUTHWESTERN ELECTRIC POWER COMPANY		
Kind of Service: Electric		**Class of Service:** As Applicable
Part III. Rate Schedule No. 5		
Title: GENERAL SERVICE - YEAR 2		

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Determination of Kilowatts of Billing Demand: The Kilowatts of Billing Demand for each month will be the average kilowatt load used by the Customer during the 15-minute period of maximum use during the month. The Kilowatts of Billing Demand will be subject to the Power Factor Adjustment Clause.

Capacity Charge for Highly Fluctuating Loads: Should the Customer operate equipment with highly fluctuating, intermittent, or abnormal characteristics that make it necessary for the Company to install special facilities to serve the Customer or to prevent disturbances to the service to other Customers, an additional charge of $1.00 per month per kilovolt-ampere (kVA) or fraction thereof of transformer capacity installed by the Company to serve the Customer will be added to the Customer's bill.

Power Factor Adjustment: The Company reserves the right to determine the power factor of the Customer's installation served hereunder. Should the average lagging power factor during the month be determined to be below 90%, the Customer's Kilowatts of Billing Demand will be adjusted by multiplying the Kilowatts of Billing Demand by 90% and dividing by the average lagging power factor.

Adjustments:

Fuel Adjustment: In addition to all other charges, the amount of the Customer's bill will be adjusted by an amount per kilowatthour calculated according to the formula in the Energy Cost Recovery Rider - Arkansas.

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ARKANSAS PUBLIC SERVICE COMMISSION

Original	**Sheet No: 22**	**Sheet 3 of 3 Sheets**
Replacing:	**Sheet No:**	
Name of Company: SOUTHWESTERN ELECTRIC POWER COMPANY		
Kind of Service: Electric	**Class of Service:** As Applicable	
Part III. Rate Schedule No. 5		
Title: GENERAL SERVICE - YEAR 2		

PSC File Mark Only

Tax Adjustment: In addition to all other charges, the amount of the Customer's bill will be increased by the proportionate part of any new tax or increased rate of tax in accordance with the Tax Adjustment Rider - Arkansas.

PAYMENT FOR SERVICE

Customers who pay within 22 days of the date of the bill will pay the net bill computed on the Net Monthly Rate. The gross bill will be payable after 22 days of the date of the bill. The gross bill will be the total net bill plus the sum of 10 percent of the first $30 of the net bill plus 2 percent of the amount over $30.

TERMS AND CONDITIONS

Service will be furnished under Company's Standard Terms and Conditions.

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APPROVED

NOV 22 1999 ORDER 9 98-339 U

TARIFF Q.P.
(Quantity Power)

Availability of Service.

Available for general service customers. The customer shall contract for a sufficient capacity to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 1,000 kVA.

Rate.

Tariff Code	Service Voltage	Demand Charge ($/kVA)	Energy Charge (¢/kWh)	Monthly Service Charge ($)
356	Secondary	8.174	3.310	341.95
358	Primary	7.338	3.206	462.70
357	Subtransmission	6.228	3.158	462.70
359	Transmission	5.741	3.126	462.70

Minimum Charge.

This tariff is subject to a minimum monthly charge equal to the sum of the monthly service charge, the product of the demand charge and the monthly billing demand and the fuel cost adjustment.

Delayed Payment Charge.

All bills under this schedule shall be rendered and due monthly. If not paid within 17 days after the bill is mailed, there shall be added to bills of $3 or less, 10 percent of the amount of the bill; and to bills in excess of $3, there shall be added 10 percent of the first $3, plus 3 percent of the amount of the bill in excess of $3.

Fuel Cost Adjustment.

This tariff is subject to the Company's fuel cost adjustment determined in accordance with the provisions of Item No. 23 of the Terms and Conditions of Service. T

Monthly Billing Demand.

The billing demands in kVA for each plant shall be taken each month as the single-highest 15-minute integrated peak in kVA, as registered at such plant during the month by a demand meter or indicator, subject to the off-peak hour provision, but the monthly demand so established shall in no event be less than 60 percent of the greater of (a) the customer's contract capacity or (b) the customer's highest

(Cont'd on Sheet No. 12.1)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 12)

previously established monthly billing demand during the past 11 months. The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

Off-Peak Hour Provision.

Demand created during the off-peak hours (as set forth below) shall be disregarded for billing purposes provided that the billing demand shall not be less than 60 percent of the maximum demand created during the billing month nor less than 60 percent of either (a) the contract capacity or (b) the customer's highest previously established monthly billing demand during the past 11 months.

For the purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m., local time, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

Adjustments to Rate.

Bills computed under the rates set forth herein will be adjusted as follows:

A. Power Factor

The rate set forth in this tariff is subject to power factor based upon the maintenance by the customer of an average monthly power factor of 85 percent, leading or lagging, as measured by integrating meters. When the average monthly power factor is above or below 85 percent, leading or lagging, the kWh as metered will, for billing purposes, be multiplied by the constant, rounded to the nearest

0.0001, derived from the following formula:

$$\text{Constant} = 0.9510 + \left[0.1275 \left[\frac{\text{RKVAH}}{\text{KWH}} \right]^2 \right]$$

B. Metered Voltage

The rates set forth in this tariff are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss-compensating equipment, the use of formulas to calculate losses, or the application of multipliers to the metered

(Cont'd on Sheet No. 12.2)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 12.1)

quantities. In such cases, the metered kWh and kVA values will be adjusted for billing purposes. If the Company elects to adjust kWh and kVA based on multipliers, the adjustment shall be in accordance with the following:

(1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.

(2) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

Terms of Contract.

Contracts under this tariff will be made for an initial period of not less than two years and shall remain in effect thereafter until either party shall give at least one year's written notice to the other of the intention to discontinue service under the terms of this tariff. Where new facilities are required, the Company reserves the right to require initial contracts for periods of greater than two years.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required.

The Company shall not be required to supply capacity in excess of that contracted for except by mutual agreement.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

A customer's plant is considered as one or more buildings which are served by a single electrical distribution system provided and operated by customer. When the size of the customer's load necessitates the delivery of energy to the customer's plant over more than one circuit, the Company may elect to connect its circuits to different points on the customer's system irrespective of contrary provisions in Terms and Conditions of Service.

This tariff is also available to customers having other sources of energy supply but who desire to purchase standby or backup service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in kVA which the Company might be required to furnish, but not less than 1,000 kVA.

(Cont'd on Sheet No. 12.3)

TARIFF Q.P.
(Quantity Power)

(Cont'd from Sheet No. 12.2)

The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods, and the minimum charge shall be as set forth under paragraph "Minimum Charge" above.

Customers with cogeneration and/or small power production facilities shall take service under Tariff COGEN/SPP or by special agreement with the Company.

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 30, 30.1, 30.2, and 30.3) is T
available to customers qualifying for service under the provisions of this tariff. T

TARIFF I.P.
(Industrial Power)

Availability of Service.

Available for general service customers with normal annual load factors greater than 55 percent. The customer shall contract for a sufficient capacity to meet normal maximum requirements, but in no case shall the capacity contracted for be less than 1,000 kVA.

Rate.

Tariff Code	Service Voltage	Demand Charge ($/KVA)	Energy Charge (¢/KWH)	Monthly Service Charge ($)
327	Secondary	17.159	1.141	341.95
322	Primary	16.018	1.107	462.70
323	Subtransmission	14.719	1.088	462.70
324	Transmission	14.133	1.077	462.70
	EHV Transmission	13.748	1.067	462.70

Minimum Charge.

This tariff is subject to a minimum monthly charge equal to the sum of the monthly service charge, the product of the demand charge and the monthly billing demand and the fuel cost adjustment. T

Delayed Payment Charge.

All bills under this schedule shall be rendered and due monthly. If not paid within 17 days after the bill is mailed, there shall be added to bills of $3 or less, 10 percent of the amount of the bill; and to bills in excess of $3, there shall be added 10 percent of the first $3, plus 3 percent of the amount of the bill in excess of $3.

Fuel Cost Adjustment.

This tariff is subject to the Company's fuel cost adjustment determined in accordance with the provisions of Item No. 23 of the Terms and Conditions of Service.

Monthly Billing Demand.

The billing demands in kVA for each plant shall be taken each month as the single-highest 15-minute integrated peak in kVA, as registered at such plant during the month by a demand meter or indicator, subject to the off-peak hour provision,

(Cont'd on Sheet No. 13.1)

TARIFF I.P.
(Industrial Power)

(Cont'd from Sheet No. 13)

but the monthly demand so established shall in no event be less than 60 percent of the greater of (a) the customer's contract capacity or (b) the customer's highest previously established monthly billing demand during the past 11 months. The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

Off-Peak Hour Provision

Demand created during the off-peak hours (as set forth below) shall be disregarded for billing purposes provided that the billing demand shall not be less than 60 percent of the maximum demand created during the billing month nor less than 60 percent of either (a) the contract capacity or (b) the customer's highest previously established monthly billing demand during the past 11 months.

For the purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m., local time, Monday through Friday. The off-peak billing period is defined as those hours not designated as on-peak hours.

Adjustments to Rate.

Bills computed under the rates set forth herein will be adjusted as follows:

A. Power Factor

The rates set forth in this tariff are subject to power factor

TARIFF I.P.
(Industrial Power)

(Cont'd from Sheet No. 13.1)

quantities. In such cases, the metered kWh and kVA values will be adjusted for billing purposes. If the Company elects to adjust kWh and kVA based on multipliers, the adjustment shall be in accordance with the following:

(1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.

(2) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

Terms of Contract.

Contracts under this tariff will be made for an initial period of not less than two years and shall remain in effect thereafter until either party shall give at least one year's written notice to the other of the intention to discontinue service under the terms of this tariff. Where new facilities are required, the Company reserves the right to require initial contracts for periods of greater than two years.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required.

The Company shall not be required to supply capacity in excess of that contracted for except by mutual agreement.

Special Terms and Conditions.

This tariff is subject to the Company's Terms and Conditions of Service.

A customer's plant is considered as one or more buildings which are served by a single electrical distribution system provided and operated by customer. When the size of the customer's load necessitates the delivery of energy to the customer's plant over more than one circuit, the Company may elect to connect its circuits to different points on the customer's system irrespective of contrary provisions in

TARIFF I.P.
(Industrial Power)

(Cont'd from Sheet No. 13.2)

The Company shall not be obligated to supply demands in excess of that contracted for. Where service is supplied under the provisions of this paragraph, the billing demand each month shall be the highest determined for the current and previous two billing periods, and the minimum charge shall be as set forth under paragraph "Minimum Charge" above.

Customers with cogeneration and/or small power production facilities may also take service under Tariff COGEN/SPP or by special agreement with the Company.

Economic Development Rider.

An Economic Development Rider (Sheet Nos. 30, 30.1, 30.2, and 30.3) is available to customers qualifying for service under the provisions of this tariff. T T

GULF POWER
A SOUTHERN COMPANY

Section No. VI
Nineteenth Revised Sheet No. 6.7
Canceling Eighteenth Revised Sheet No. 6.7

RATE SCHEDULE GSD
GENERAL SERVICE - DEMAND
URSC: GSD

GULF POWER
A SOUTHERN COMPANY

Section No. VI
Eighteenth Revised Sheet No. 6.8
Canceling Seventeenth Revised Sheet No. 6.8

PAGE	EFFECTIVE DATE
2 of 3	September 2, 1999

GULF POWER
A SOUTHERN COMPANY

Section No. VI
Eighteenth Revised Sheet No. 6.9
Canceling Seventeenth Revised Sheet No. 6.9

PAGE	EFFECTIVE DATE
3 of 3	September 2, 1999

(Continued from Rate Schedule GSD, Sheet No. 6.8)

TAX ADJUSTMENT:

See Sheet No. 6.37

FRANCHISE FEE BILLING:

See Sheet No. 6.37

FUEL CHARGE:

See Sheet No. 6.34

PURCHASED POWER CAPACITY COST:

See Sheet No. 6.35

ENVIRONMENTAL COST:

See Sheet No. 6.36

ENERGY CONSERVATION:

See Sheet No. 6.38

GROSS RECEIPTS TAX ADJUSTMENT:

See Sheet No. 6.37

PAYMENT OF BILLS:

See Sheet No. 6.37

Service under this rate schedule is subject to Rules and Regulations of the Company and the Florida Public Service Commission.

ISSUED BY: Travis Bowden

ALABAMA POWER
A SOUTHERN COMPANY

RATE HLF
HIGH LOAD FACTOR
INDUSTRIAL POWER

By order of the Alabama Public Service Commission dated December 7, 1998 in Docket # 24860.

PAGE	EFFECTIVE DATE	REVISION
1 of 3	January, 1999 Billings	Thirteenth

AVAILABILITY

Available from the interconnected transmission system of the Company.

APPLICABILITY

Applicable to high load factor industrial power service requiring 3,000 KW or greater and having a demonstrable annual load factor of approximately ninety percent (90%) or greater. Service shall be taken at one (1) voltage and through a single delivery point. Service to more than one (1) premises shall not be combined. Service shall not be resold or shared with others. The Company reserves the right to negotiate the terms, conditions and arrangements for supplying loads of more than 27,000 KW of capacity subject to the approval of the Alabama Public Service Commission.

CHARACTER OF SERVICE

Three phase service directly from the Company's 44 KV or higher transmission system (transmission) or distribution lines (primary). Three phase service at the secondary voltage of transformation facilities supplied from the Company's transmission system (primary) or distribution system (secondary). The Company shall not be required to serve loads of over 20,000 KVA of capacity except from its transmission facilities of 115 KV or higher.

MONTHLY RATE (TRANSMISSION)

Customer Access Charge:	$2,000 per customer; plus
Capacity Charge:	$10.00 per KW for all KW of billing capacity; plus
Energy Charge:	0.4569¢ per KWH for all KWH.

SEASONAL CAPACITY

Additional capacity, hereinafter referred to as "seasonal capacity," can be supplied on a year-to-year basis during the billing months of October through May provided the Consumer gives a minimum of two months written notice to the Company each year seasonal capacity is desired and the Company determines it has sufficient seasonal capacity available. In case of a system emergency, the Company may temporarily suspend the delivery of seasonal capacity. The Company shall not be required to furnish additional facilities to supply seasonal capacity.

ALABAMA POWER
A SOUTHERN COMPANY

RATE HLF
HIGH LOAD FACTOR
INDUSTRIAL POWER

By order of the Alabama Public Service Commission dated December 7, 1998 in Docket # 24860.

PAGE	EFFECTIVE DATE	REVISION
2 of 3	January, 1999 Billings	Thirteenth

DETERMINATION OF BILLING CAPACITY

The capacity for billing purposes shall be the maximum integrated fifteen (15) minute capacity during each billing period of approximately thirty (30) days, measured in kilowatts by an appropriate capacity meter; provided, however, that such capacity shall be no less than ninety percent (90%) of the measured maximum capacity requirements established during the previous eleven (11) months (except for months in which seasonal capacity is requested, made available and utilized) or less than ninety percent (90%) of the contracted capacity or 3,000 KW, whichever is greatest.

ADJUSTMENT FOR TRANSFORMATION FACILITIES

Monthly charges shall be increased by seventy-six cents (76¢) per KW of billing capacity whenever the Company supplies transformation facilities from its transmission lines. The monthly charges shall be increased by one dollar and thirty cents ($1.30) per KW of billing capacity whenever the Company supplies transformation facilities from its distribution lines.

ADJUSTMENT FOR LOW POWER FACTOR

The bill calculated at the above rates shall be increased in the amount of thirty cents (30¢) per month per KVA of capacity requirements in excess of the KVA of capacity corresponding to a power factor of ninety percent (90%). The excess of KVA to which such charge applied shall be determined by dividing the maximum KW capacity recorded in the current billing month by 0.90 and subtracting the results from the KVA capacity requirements at the time of occurrence of such maximum KW capacity.

MINIMUM BILL

No monthly bill will be rendered for less than the Customer Access Charge, plus the capacity charge, plus applicable adjustments for transformation, plus applicable provisions of Rate ECR (Energy Cost Recovery) and Rate T (Tax Adjustment).

PAYMENT

Bills for service rendered hereunder are payable within ten (10) days from the due date and if not paid within such period become delinquent and subject to charges as set forth in the Company's Rules and Regulations.

ALABAMA POWER
A SOUTHERN COMPANY

RATE HLF
HIGH LOAD FACTOR
INDUSTRIAL POWER

By order of the Alabama Public Service Commission dated December 7, 1998 in Docket # 24860.

PAGE	EFFECTIVE DATE	REVISION
3 of 3	January, 1999 Billings	Thirteenth

TERM OF CONTRACT

Service under this rate shall be for a minimum period of ten (10) years for new Consumers (initial service or any major addition thereto) and not less than one (1) year for other Consumers. After the initial term (whichever is applicable), service hereunder shall continue until terminated by one (1) year written notice by either party to the other.

ENERGY COST RECOVERY

The amount calculated at the above rate will be increased under the provisions of the Company's Rate ECR (Energy Cost Recovery) by applying the effective Energy Cost Recovery Factor.

RATE STABILIZATION AND EQUALIZATION

Rate RSE (Rate Stabilization and Equalization Factor) is incorporated in this rate and will be applied to adjust (increase or decrease) KWH charges calculated hereunder.

ADJUSTMENT FOR COMMERCIAL OPERATION OF CERTIFICATED NEW PLANT

Rate CNP (Adjustment for Commercial Operation of Certificated New Plant) is incorporated in this rate and will be applied to increase KWH charges calculated hereunder.

GENERAL

The amount calculated at the above rate is subject to possible tax adjustments as set forth in Rate T (Tax Adjustment) and to rules and regulations approved or prescribed by the Alabama

WEST TEXAS UTILITIES COMPANY
TARIFF FOR ELECTRIC SERVICE

Section No.:	4	Sheet: 10	Page 1 of 3	
Revision:	7	Rate: LPS	Code:	432-S, 433-P,
Effective Date:	9-26-95			435-PS, 443-T
Applicable:	Entire System			

LARGE POWER SERVICE

AVAILABILITY

This rate schedule is available, under contract, only for large power service for which no other specific rate schedule is provided and service is taken at one point of delivery and Customer has a maximum metered load of not less than 1,000 kilowatts.

TYPE OF SERVICE

Company will supply three-phase service at any one standard secondary voltage available from Company's distribution system at the point of delivery.

NET MONTHLY BILL

Rate: $100.00 Customer Charge

Billing Months of June through September	Billing Months of October through May
$6.99 per kW of billing demand	$6.99 per kW of billing demand
$5.31 per kW additional charge for on-peak demand	0.375¢ per kWh for all kWh used
0.375¢ per kWh for all kWh used	

Primary Line Service Credit: $0.35 per kW of billing demand plus 0.020¢ per kWh when service is provided at the available standard primary voltage.

Primary @ Substation Service Credit: $1.10 per kW of billed demand plus 0.025¢ per kWh when service is provided at the primary substation.

Transmission Service Credit: $1.70 per kW of billing demand plus 0.030¢ per kWh when service is provided at the transmission.

Minimum: $7,090.00 per month; but not less than 40¢ per kVa of capacity installed to serve Customer's load (excluding fuel cost recovery charge).

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AFFIRMATIVE
NOV - 9 '95 DOCKET 13369
CONTROL # _____
TARIFF CLERK

WEST TEXAS UTILITIES COMPANY
TARIFF FOR ELECTRIC SERVICE

Section No.:	4 Sheet: 10	Page 2 of 3	
Revision:	7 Rate: LPS	Code:	432-S, 433-P,
Effective Date:	9-26-95		435-PS, 443-T
Applicable:	Entire System		

LARGE POWER SERVICE

Fuel Cost Recovery Charge: Plus a fixed fuel factor charge in accordance with Rate FFF, sheet number 23.

Gross Receipts Tax Adjustment: Subject to Rate GRTA, sheet number 24.

DETERMINATION OF BILLING DEMAND

The demand will be measured and shall be the average kilowatt load used by the Customer during the 15 minute period of maximum use during the month, but not less than 1,000 kilowatts or the minimum billing demand.

DETERMINATION OF ON-PEAK DEMAND

The on-peak demand will be measured and shall be the monthly average kilowatt load used by the Customer during the 15 minute period of maximum use during the Company's

WEST TEXAS UTILITIES COMPANY
TARIFF FOR ELECTRIC SERVICE

Section No.:	4	Sheet: 10	Page 3 of 3
Revision:	7	Rate: LPS	Code: 432-S, 433-P, 435-PS, 443-T
Effective Date:	9-26-95		
Applicable:	Entire System		

LARGE POWER SERVICE

METER ADJUSTMENT

If the Customer's load is metered on the high-voltage side of a Company-owned

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LIGHTING AND POWER SERVICE (LPS)

RATE CODES 320, 321, 322, 324, 326, 327, 329, 331, 332, 333, 334, 336

AVAILABILITY

This schedule is available for electric service supplied at one point of delivery and measured by one meter.

This schedule is not available where a specific rate schedule is provided, or for standby, temporary or resale service except in conjunction with the applicable rider.

TYPE OF SERVICE

The electric service furnished will be single or three phase, 60 hertz, at one of the Company's standard secondary, primary or transmission voltages. Refer to Section D, Sheets 1 and 3, for additional voltage information.

MONTHLY RATE

Basic Service Charge: $ 53.70 | R

	Secondary	Primary	Transmission	
Demand Charge: per KW of billing demand but not less than $ 64.60 for all voltage levels	$ 12.92	$12.42	$11.92	R
Energy Charge:	$ 0.0107	per kWh for all kWh used.		R

MINIMUM MONTHLY BILL

The minimum monthly bill will be the Basic Service Charge plus the higher of:

1. The Demand Charge; or

2. $ 3.01 per horsepower of the largest motor or other inductive type electric device connected. | R

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CONTROL #18710
TARIFF CLERK

DETERMINATION OF BILLING DEMAND

The Customer's billing demand will be the KW load established by Customer during the 15-minute period of maximum use during the month but will be neither less than 80% of the maximum KW load established during the most recent summer months nor less than 5 KW. Summer months as used herein will be the four months' service period beginning with the revenue month of July and ending with the revenue month of October.

In case the Customer has a highly fluctuating load, provisions may be made for measuring the KW over a shorter interval or for use of Customer's connected load, instead of measured KW, to determine the Customer's maximum KW for billing purposes.

POWER FACTOR CLAUSE

The Company reserves the right to make tests from time to time to determine the power factor of the Customer's installation. Should the average lagging power factor during the month be below 80%, Customer's measured demand will be increased for billing purposes by 0.4% for each 1% by which the average lagging power factor is below 80%.

PRIMARY VOLTAGE

If the electric service is supplied at primary voltage of the distribution system and if the customer owns, operates, and maintains or leases from the Company all the facilities for receiving the service at the supplied voltage, the primary rate will be used for billing purposes.

TRANSMISSION VOLTAGE

If the electric service is supplied at transmission voltage (69,000 volts or higher) and if the customer owns, operates, and maintains or leases from the Company all of the facilities for receiving the service at the supplied voltage, the transmission rate will be used for billing purposes.

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TARIFF CLERK

CENTRAL POWER AND LIGHT COMPANY

TARIFF FOR ELECTRIC SERVICE

Applicable: Entire System
Section: B Sheet: 6 Page 3 of 3
Section Title: Rate Schedules
Revision: 11 Effective Date: May 1, 1999 | T

METERING VOLTAGE

If the customer is receiving line side voltage service but the meter is on the load side of the transformer, the metered KW and kWh will be increased by 2% for billing purposes.

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TARIFF CLERK

| T

INDUSTRIAL POWER SERVICE (IPS)

RATE CODES 440, 441, 442, 443, 444, 446, 447, 448, 449

AVAILABILITY

This schedule is available for primary or transmission voltage service where the customer owns, installs and maintains or leases from the Company all transformation and distribution facilities from the point of delivery to be designated by the Company. Service will be supplied to the entire premises through a single delivery and metering point. Customers served on the Network (either Downtown or Downtown Spot) are limited to primary voltage service under this schedule and allowed ownership ONLY in conjunction with Rider 19 and the Facilities Maintenance Service Rider and the Facilities Maintenance Agreement.

This schedule is not available where a specific rate schedule is provided, or for standby, temporary or resale service except in conjunction with the applicable rider.

TYPE OF SERVICE

The electric service furnished will be single or three phase, 60 hertz, service will be supplied at the Company's standard primary or transmission voltage. Refer to Section D, Sheets 1 and 3, for additional voltage information.

MONTHLY RATE

	Primary	Transmission	
Demand Charge:			
per KW of billing demand			
but not less than $ 7,446.00			R
for both voltage levels	$ 12.41	$11.91	R
Energy Charge:	$ 0.0074	per kWh for all kWh used.	R

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MINIMUM MONTHLY BILL

The minimum monthly bill will be the higher of:

1. The Demand Charge; or

2. $ 3.35 per horsepower of the largest motor or other inductive type electric device connected. | R

DETERMINATION OF BILLING DEMAND

The customer's billing demand will be the noncoincidental KW load established by customer during the 15-minute period of maximum use during the month but will be neither less than 80% of the maximum KW load established during the most recent On-Peak months nor less than 600 KWs. On-Peak months as used herein will be the four months service period beginning with the billing month of July and ending with the billing month of October.

In case the customer has a highly fluctuating load, provisions may be made for measuring the KWs over a shorter interval or for use of customer's connected load, instead of measured KWs, to determine the customer's maximum KWs for billing purposes.

POWER FACTOR CLAUSE

The Company reserves the right to make tests from time to time to determine the power factor of the customer's installation. Should the average lagging power factor during the month be above 90%, customer's measured demand will be decreased for billing purposes by 0.4% for each 1% by which the average lagging power is above 90%. Should the average lagging power factor during the month be below 80%, customer's measured demand will be increased for billing purposes by 0.4% for each 1% by which the average lagging power factor is below 80%.

TRANSMISSION VOLTAGE

If the electric service is supplied at transmission voltage (69,000 volts or higher) and if the customer owns, operates, and maintains or leases from the Company all of the facilities for receiving the service at the supplied voltage, the transmission rate will be used for billing purposes.

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MAY 1 '99 DOCKET 14965
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METERING VOLTAGE

If the customer is receiving line side voltage service but the meter is on the load side of the transformer, the metered KW and kWh will be increased by 2% for billing purposes to recover transformer losses. If customer is receiving load side voltage service but the meter is on the line side of the transformer, the metered KW and kWh will be reduced by 2% for billing purposes to adjust for transformer losses.

FIXED FUEL FACTOR AND GROSS RECEIPTS FEE ADJUSTMENT

The above rate is subject to the provisions of Sheets 24 and 25, Section B: Rate Schedules.

TERMS AND CONDITIONS

Service will be furnished under Company's Service Rules and Regulations, Section D.

SERVICE RIDERS

See Sheet B31 for rider availability.

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San Diego, California

Revised Cal. P.U.C. Sheet No. 17641-E*
Canceling Revised Cal. P.U.C. Sheet No. 17546-E

SCHEDULE AL-TOU

GENERAL SERVICE - TIME METERED

APPLICABILITY

Applicable to all metered non-residential customers whose monthly maximum demand equals, exceeds, or is expected to equal or exceed 20 kW. This schedule is optionally available to three-phase residential service, residential common use areas, and to metered non-residential customers whose Monthly Maximum Demand is less than 20 kW. Any customer whose Maximum Monthly Demand has fallen below 20 kW for three consecutive months may, at their option, elect to continue service under this schedule or be served under any other applicable schedule. This schedule is the utility's standard tariff for commercial and industrial customers with a Monthly Maximum Demand equaling or exceeding 20 kW.

Non-profit group living facilities taking service under this schedule may be eligible for a 20% California Alternate Rates for Energy (CARE) discount on their bill, if such facilities qualify to receive service under the terms and conditions of Schedule E-LI.

Agricultural Employee Housing Facilities, as defined in Schedule E-LI, may qualify for a 20% CARE discount on the bill if all eligibility criteria set forth in Form 142-4032 is met.

TERRITORY

Within the entire territory served by the Utility.

RATES

Description	Transm	Distr	PPP	ND	FTA	CTC	RS	UDC Total	
Basic Service Fees ($/month)									T
0-500 kW									
Secondary		48.52						48.52	
Primary		48.52						48.52	
Secondary Substa.		13858.43						13858.43	
Primary Substation		13858.43						13858.43	
Transmission		61.36 I						61.36 I	
> 500 kW									
Secondary		194.06						194.06	
Primary		194.06						194.06	
Secondary Substa.		13858.43						13858.43	
Primary Substation		13858.43						13858.43	
Transmission		245.49 I						245.49 I	
> 12 MW									
Secondary Substa.		21820.90						21820.90	
Primary Substation		21820.90						21820.90	
Trans. Multiple Bus		3,000.00						3,000.00	N
Distance Adjust Fee									
Secondary - OH		1.23						1.23	
Secondary - UG		3.17						3.17	
Primary - OH		1.22						1.22	
Primary - UG		3.13						3.13	

(Continued)

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Revised Cal. P.U.C. Sheet No. 17770-E
Canceling Revised Cal. P.U.C. Sheet No. 17642-E*

SCHEDULE AL-TOU

Sheet 2

GENERAL SERVICE - TIME METERED

RATES (Continued)

Description	Transm	Distr	PPP	ND	FTA	CTC	RS	UDC Total
Demand Charges ($/kW)								
Non-Coincident								
Secondary	2.65	6.26 I				0.34	2.33 I	**11.58 I**
Primary	2.57	6.15 I				0.31	2.25 I	**11.28 I**
Secondary Substation	2.65					0.34	2.33 I	**5.32 I**
Primary Substation	2.57					0.03	2.25 I	**4.85 I**
Transmission	2.54					0.03	2.23 I	**4.80 I**
Maximum On-Peak								
Summer								
Secondary		4.09 I				1.50		**5.59 I**
Primary		3.95 I				1.46		**5.41 I**
Secondary Substation						1.50		**1.50**
Primary Substation						1.07		**1.07**
Transmission						1.06		**1.06**
Winter								
Secondary		3.48 I				0.35		**3.83 I**
Primary		3.47 I				0.34		**3.81 I**
Secondary Substation						0.35		**0.35**
Primary Substation						0.22		**0.22**
Transmission						0.22		**0.22**
Power Factor ($/kvar)								
Secondary		0.25						**0.25**
Primary		0.25						**0.25**
Secondary Substation		0.25						**0.25**
Primary Substation		0.25						**0.25**
Transmission								

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San Diego Gas & Electric Company
San Diego, California

Revised Cal. P.U.C. Sheet No. 17771-E
Canceling Revised Cal. P.U.C. Sheet No. 17643-E*

SCHEDULE AL-TOU

Sheet 3

GENERAL SERVICE - TIME METERED

RATES (Continued)

Description	Transm	Distr	PPP	ND	FTA	CTC	RS	UDC	
Energy Charges ($/kWh)									
On-Peak - Summer									
Secondary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00578	0.00378 R	**0.01431**	R
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00563	0.00378 R	**0.01416**	R
Secondary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00578	0.00378 R	**0.01431**	R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00544	0.00378 R	**0.01397**	R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00540	0.00378 R	**0.01393**	R
Semi-Peak – Summer									
Secondary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00337	0.00378 R	**0.01190**	R
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00330	0.00378 R	**0.01183**	R
Secondary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00337	0.00378 R	**0.01190**	R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00321	0.00378 R	**0.01174**	R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00318	0.00378 R	**0.01171**	R
Off-Peak – Summer									
Secondary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00265	0.00378 R	**0.01118**	R
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00261	0.00378 R	**0.01114**	R
Secondary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00265	0.00378 R	**0.01118**	R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00257	0.00378 R	**0.01110**	R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00255	0.00378 R	**0.01108**	R
On-Peak – Winter									
Secondary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00483	0.00378 R	**0.01336**	R
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00471	0.00378 R	**0.01324**	R
Secondary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00483	0.00378 R	**0.01336**	R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00455	0.00378 R	**0.01308**	R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00453	0.00378 R	**0.01306**	R
Semi-Peak – Winter									
Secondary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00339	0.00378 R	**0.01192**	R
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00331	0.00378 R	**0.01184**	R
Secondary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00339	0.00378 R	**0.01192**	R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00322	0.00378 R	**0.01175**	R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00320	0.00378 R	**0.01173**	R
Off-Peak - Winter									
Secondary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00268	0.00378 R	**0.01121**	R
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00264	0.00378 R	**0.01117**	R
Secondary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00268	0.00378 R	**0.01121**	R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00259	0.00378 R	**0.01112**	R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00257	0.00378 R	**0.01110**	R

Notes: Transmission Energy charges include the Transmission Revenue Balancing Account Adjustment (TRBAA) of ($.00166) per kWh and the Transmission Access Charge Balancing Account Adjustment (TACBAA) of $.00009 per kWh. PPP rate is composed of: Low Income PPP rate (LI-PPP) $.00162/kWh, Non-low Income PPP rate (Non-LI-PPP) $.00256/kWh (pursuant to PU Code Section 399.8, the Non-LI-PPP rate may not exceed January 1, 2000 levels), and Procurement Energy Efficiency Surcharge Rate of $.00158/kWh. I I

(Continued)

SCHEDULE AL-TOU

GENERAL SERVICE - TIME METERED

RATES (Continued)

Rate Components
The Utility Distribution Company Total Rates (UDC Total) shown above are comprised of the following components (if applicable): (1) Transmission (Trans) Charges, (2) Distribution (Distr) Charges, (3) Public Purpose Program (PPP) Charges, (4) Nuclear Decommissioning (ND) Charge, (5) Trust Transfer Amount (TTA), sometimes referred to as Fixed Transition Amount (FTA), (6) Ongoing Competition Transition Charges (CTC), and (7) Reliability Services (RS). T T

Utility Distribution Company (UDC) Total Rate shown above excludes any applicable commodity charges associated with Schedule EECC (Electric Energy Commodity Cost) and Schedule DWR-BC (Department of Water Resources Bond Charge).

Fixed Transition Amount Adjustment
For residential and small commercial customers as defined in Rule 1 – Definitions, and as described in Public Utilities Code Section 331(h), the rates shown above will be adjusted in accordance with the rates set forth in Schedule FTA.

Time Periods
All time periods listed are applicable to local time. The definition of time will be based upon the date service is rendered.

	Summer May 1 - Sept 30	Winter All Other
On-Peak	11 a.m. - 6 p.m. Weekdays	5 p.m. - 8 p.m. Weekdays
Semi-Peak	6 a.m. - 11 a.m. Weekdays	6 a.m. - 5 p.m. Weekdays
	6 p.m. - 10 p.m. Weekdays	8 p.m. - 10 p.m. Weekdays
Off-Peak	10 p.m. - 6 a.m. Weekdays	10 p.m. - 6 a.m. Weekdays
	Plus Weekends & Holidays	Plus Weekends & Holidays

Non-Standard Seasonal Changeover
Customers may select on an optional basis to start the summer billing period on the first Monday of May and to start the winter billing period on the first Monday of October. Customers electing this option will be charged an additional $100 per year for metering equipment and programming.

Franchise Fee Differential
A Franchise Fee Differential of 5.78% will be applied to the monthly billings calculated under this schedule for all customers within the corporate limits of the City of San Diego. Such Franchise Fee Differential shall be so indicated and added as a separate item to bills rendered to such customers.

Large Customer CTC Adjustment
Large Customers, as defined in Rule 1 - Definitions, shall have a Transition Cost Balancing Account (TCBA) bill credit calculated each month that is equal to the CTC rates above, multiplied by the billing determinates as delivered by the Utility to the customer, multiplied by 1.38. This CTC adjustment is effective for a 12-month period, beginning January 1, 2005. Customers that would be billed a CTC for the output of their generator(s) will, for all billing periods commencing after the effective date of this provision, not be billed a CTC for that output. The Utility shall record this amount against the balance in the TCBA.

(Continued)

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San Diego Gas & Electric Company
San Diego, California

Revised Cal. P.U.C. Sheet No. 17114-E

Canceling Revised Cal. P.U.C. Sheet No. 16714-E*

SCHEDULE AL-TOU

Sheet 5

GENERAL SERVICE - TIME METERED

SCHEDULE AL-TOU

GENERAL SERVICE - TIME METERED

SPECIAL CONDITIONS (Continued)

11. Terms of Optional Service. A customer receiving service under this schedule may elect to change to another applicable rate schedule, but only after receiving service on this schedule for at least 12 consecutive months. If a customer elects to discontinue service on this schedule, the customer will not be permitted to return to this schedule for a period of one year.

12. Basic Service Fee Determination. The basic service fee will be determined each month based on the customer's Maximum Annual Demand.

13. Transmission Multiple Bus Basic Service Fee. This fee shall apply where a customer has at their option elected to be billed at this rate and is limited to where the customer is delivering power and taking service at one or more than one transmission service level bus even if at two or more different voltage levels, for service to a generation facility that is located on a single premise owned or operated by the customer. In such a case, the Utility shall, for the purposes of applying retail rates, combine by subtracting any generation delivered from any loads served provided, however, that for purposes of applying retail rates the difference resulting from this combining may not be less than zero. All other charges on this tariff shall also apply to the resulting combined loads. N

Any customer selecting this optional billing no later than six (6) months from the first effective date of this new rate shall, for billing purposes, have any previously incurred demand ratchet treated as a "zero" from the effective date of the change in billing forward. In addition, any standby charges shall be adjusted to the customer's contract level from the effective date of the change in billing forward until the customer's demand triggers a future change. N

14. Billing. A customer's bill is first calculated according to the total rates and conditions listed above. The following adjustments are made depending on the option applicable to the customer: T

a. **UDC Bundled Service Customers** receive supply and delivery services solely from SDG&E. The customer's bill is based on the Total Rates set forth above. The EECC component is determined by multiplying the EECC price for this schedule during the last month by the customer's total usage.
b. **Direct Access Customers** purchase energy from an energy service provider (ESP) and continue to receive delivery services from SDG&E. The bill for a Direct Access Customer will be calculated as if it were a UDC Bundled Service Customer, then crediting the bill by the amount of the EECC component, as determined for a UDC Bundled Customer.
c. **Virtual Direct Access Customers** receive supply and delivery services solely from SDG&E. A customer taking Virtual Direct Access service must have a real-time meter installed at its premises to record hourly usage, since EECC change hourly. The bill for a Virtual Direct Access Customer will be calculated as if it were a UDC Bundled Service Customer, then crediting the bill by the amount of the EECC component, as determined for a UDC Bundled Customer, then adding the hourly EECC component, which is determined by multiplying the hourly energy used in the billing period by the hourly cost of energy.

Nothing in this service schedule prohibits a marketer or broker from negotiating with customers the method by which their customer will pay the CTC charge.

15. Temporary Service. When service is turned on for cleaning and/or showing of an unoccupied premise above 20 kW facility, the minimal usage shall be billed under Schedule A, until a new tenant begins service. Should usage exceed 20kW at any time for cleaning and/or showing, the customer shall be billed the rates on this schedule. T

(Continued)

SCHEDULE AL-TOU

GENERAL SERVICE - TIME METERED

SPECIAL CONDITIONS (Continued)

16. Multiple Meters on Single Premise. When a single corporate entity owns a contiguous property, not divided by any public right of way or property owned by another entity, and the utility has more than one meter serving that property, then, at the customer's request the utility will for the additional fees set forth in this Special Condition bill all of the usage at some, or all, of the meters as though the whole premise were served through a single meter. As of September 21, 2004, for new customers to be eligible for combined billing, all meters must have the same billing components. These components include but are not limited to FTA, Large Customer CTC Adjustment, Large Customer Commodity Credit, Direct Access (DA) Cost Responsibility Surcharge, DA Utility Service Credit, DA Energy Charge and DA Franchise Fee Surcharge. Meter data will be combined for the purpose of billing Distribution charges, as listed in the Rates Section of this tariff. The customer must pay for the utility to install and maintain meters to record consumption in 15 minute intervals for all involved meters. The customer must also pay a distance adjustment fee determined by that utility that is based on the distance between each of the meters involved using normal utility position to determine that distance. The rate applied will be the Distance Adjustment Fee from the Rate Section of this tariff times 0.121. When Secondary level and Primary level services are combined, the usage measured at the Secondary level will be increased by 4% for losses, prior to being added to the usage measured at the Primary level. When Primary level and Transmission level services are combined, usage measured at the Primary Level will be increased by 3% for losses, prior to being added to the usage measured at the Transmission level. T

17. Electric Emergency Load Curtailment Plan: As set forth in CPUC Decision 01-04-006, all transmission level customers except essential use customers, OBMC participants, net suppliers to the electrical grid, or others exempt by the Commission, are to be included in rotating outages in the event of an emergency. A transmission level customer who refuses or fails to drop load shall be added to the next curtailment block so that the customer does not escape curtailment. If the transmission level customer fails to cooperate and drop load at SDG&E's request, automatic equipment controlled by SDG&E will be installed at the customer's expense per Electric Rule 2. A transmission level customer who refuses to drop load before installation of the equipment shall be subject to a penalty of $6/kWh for all load requested to be curtailed that is not curtailed. The $6/kWh penalty shall not apply if the customer's generation suffers a verified, forced outage and during times of scheduled maintenance. The scheduled maintenance must be approved by both the ISO and SDG&E, but approval may not be unreasonably withheld. T

18. Other Applicable Tariffs: Rules 21, 23 and Schedule E-Depart apply to customers with generators. T

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San Diego, California

Revised Cal. P.U.C. Sheet No. 17778-E
Canceling Revised Cal. P.U.C. Sheet No. 17660-E*

SCHEDULE A6-TOU

GENERAL SERVICE - TIME METERED OPTIONAL

APPLICABILITY

This schedule is optionally available to customers whose maximum demand in any time period is 500 kW or greater.

TERRITORY

Within the entire territory served by the utility.

RATES

Description	Transm	Distr	PPP	ND	FTA	CTC	RS	UDC Total
Basic Service Fees ($/month)								
> 500 kW								
Primary		194.06						**194.06**
Primary Substation		13858.43						**13858.43**
Transmission		920.61						**920.61**
> 12 MW								
Primary Substation		21820.90						**21820.90**
Distance Adjust. Fee								
Distance Adj Fee OH		1.22						**1.22**
Distance Adj Fee UG		3.13						**3.13**
Demand Charges								
Non-Coincident								
Primary	2.57 R	6.15 I				0.30	2.25 I	**11.27 I**
Primary Substation	2.57					0.03	2.25 I	**4.85 I**
Transmission	2.54					0.03	2.23 I	**4.80 I**
Maximum Demand at Time of System Peak								
Summer								
Primary		4.55 I				1.55		**6.10 I**
Primary Substation						1.19		**1.19**
Transmission						1.18		**1.18**
Winter								
Primary		4.01 I				0.38		**4.39 I**
Primary Substation						0.23		**0.23**
Transmission						0.23		**0.23**
Power Factor ($/kvar)								
Primary		0.25						**0.25**
Primary Substation		0.25						**0.25**
Transmission								

(Continued)

SDGE

San Diego Gas & Electric Company
San Diego, California

Revised Cal. P.U.C. Sheet No. 17779-E

Canceling Revised Cal. P.U.C. Sheet No. 17661-E*

Sheet 2

SCHEDULE A6-TOU

GENERAL SERVICE - TIME METERED OPTIONAL

RATES (Continued)

Description	Transm	Distr	PPP	ND	FTA	CTC	RS	UDC Total
Energy Charges (kWh)								
On-Peak Summer								
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00533	0.00378 R	**0.01386** R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00516	0.00378 R	**0.01369** R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00512	0.00378 R	**0.01365** R
Semi-Peak Summer								
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00315	0.00378 R	**0.01168** R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00306	0.00378 R	**0.01159** R
Transmission	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00304	0.00378 R	**0.01157** R
Off-Peak Summer								
Primary	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00250	0.00378 R	**0.01103** R
Primary Substation	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00244	0.00378 R	**0.01097** R
[illegible]	(0.00157) I	0.00000	0.00576	0.00056	0.00000	0.00243	0.00378 R	**0.01096** R

SCHEDULE A6-TOU

GENERAL SERVICE - TIME METERED OPTIONAL

RATES (Continued)

Fixed Transition Amount Adjustment
For residential and small commercial customers as defined in Rule 1 – Definitions, and as described in Public Utilities Code Section 331(h), the rates shown above will be adjusted in accordance with the rates set forth in and Schedule FTA.

Time Periods:
All time periods listed are applicable to local time.

	Summer May 1 - Sept 30	Winter All Other
On-Peak	11 a.m. - 6 p.m. Weekdays	5 p.m. - 8 p.m. Weekdays
Semi-Peak	6 a.m. - 11 a.m. Weekdays	6 a.m. - 5 p.m. Weekdays
	6 p.m. - 10 p.m. Weekdays	8 p.m. - 10 p.m. Weekdays
Off-Peak	10 p.m. - 6 a.m. Weekdays	10 p.m. - 6 a.m. Weekdays
	Plus Weekends & Holidays	Plus Weekends & Holidays

Where the billing month contains time from both April and May or September and October, the Maximum Demand at Time of System Peak Charge will be determined based on data for the On-Peak hours specified for the predominant month. When the billing period has an equal number of days within each month, the month with the highest System Peak will prevail.

Non-Standard Seasonal Changeover
Customers may select on an optional basis to start the summer billing period on the first Monday of May and start the winter billing period on the first Monday of October. Customers electing this option will be charged an additional $100 per year for metering equipment and programming.

Franchise Fee Differential
A Franchise Fee Differential of 5.78% will be applied to the monthly billings calculated under this schedule for all customers within the corporate limits of the City of San Diego. Such Franchise Fee Differential shall be so indicated and added as a separate item to bills rendered to such customers.

Large Customer CTC Adjustment
Large Customers, as defined in Rule 1 - Definitions, shall have a Transition Cost Balancing Account (TCBA) bill credit calculated each month that is equal to the CTC rates above, multiplied by the billing determinates as delivered by the Utility to the customer, multiplied by 1.38. This CTC adjustment is effective for a 12-month period, beginning January 1, 2005. Customers that would be billed a CTC for the output of their generator(s) will, for all billing periods commencing after the effective date of this provision, not be billed a CTC for that output. The Utility shall record this amount against the balance in the TCBA. T D

Large Customer Commodity Credit
Large Customers, as defined in Rule 1 – Definitions, who are receiving bundled service will receive a commodity credit for a 24-month period beginning January 1, 2004. Large Customers will receive a monthly credit in the amount of $0.01313/kWh. This credit represents the return of an overcollection in the large customer subaccount of the Energy Resource Recovery Account (ERRA).

(Continued)

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San Diego, California

Revised Cal. P.U.C. Sheet No. 14927-E
Revised 14383-E
Canceling Revised Cal. P.U.C. Sheet No. 14059-E

SCHEDULE A6-TOU

GENERAL SERVICE - TIME METERED OPTIONAL

SPECIAL CONDITIONS

1. Definitions: The Definitions of terms used in this schedule are found either herein or in Rule 1.

2. Voltage: Service under this schedule normally will be supplied at a standard available Voltage in accordance with Rule 2.

3. Voltage Regulators: Voltage Regulators, if required by the customer, shall be furnished, installed, owned, and maintained by the customer.

4. Reconnection Charge: In the event that a customer terminates service under this schedule and re-initiates service under this or any other schedule at the same location within 12 months, there will be a Reconnection Charge equal to the minimum charge which would have been billed had the customer not terminated service.

5. Non-Coincident Demand Charge: The Non-Coincident Demand Charge shall be based on the higher of the Maximum Monthly Demand or 50% of the Maximum Annual Demand.

6. Power Factor: The Power Factor rate shall apply to those customers that have a Power Factor Test Failure and will be based on the Maximum Kilovar Billing Demand. Those customers that have a Power Factor Test Failure will be required to pay for the Power Factor Metering that the utility will install.

7. Maximum Demand at the Time of System Peak. The Maximum Demand at the Time of System Peak will be based on the kilowatts of Maximum Demand measured at the time of system peak occurring during each billing period during the on-peak period. Demands created by the maintenance of a customer's self generation system (not to exceed the amount of the contracted standby level), on a kW basis, will be subtracted from the measured peak-period demand used in calculating the demand charge, provided that the scheduled maintenance has been previously approved by the utility.

   The billing month system peak shall be the highest transmitted system load signal occurring during the On-Peak time period including the first day of the billing month. All customers with the same first day of the billing month shall have the same billing month system peak regardless of when their meter is read.

   The first day of the billing month shall be the day of the meter read regardless of the time of the meter read.

   In the event that two or more equivalent transmitted system peak load signals occur in a billing month, the demand charge shall be based on the time of the last of the equivalent system peaks.

8. Parallel Generation Limitation. This schedule is not applicable to standby, auxiliary service, or service operated in parallel with a customer's generating plant, except as specified in Rule 1 under the definition of Parallel Generation Limitation. L

9. Seasonal Changeover Switching Limitation. Customers who elect the non-standard seasonal changeover option of this schedule will be prohibited from switching service to the regular seasonal changeover for a 12-month period. L

(Continued)

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San Diego, California

Revised Cal. P.U.C. Sheet No. 15674-E
Canceling Revised Cal. P.U.C. Sheet No. 14928-E

SCHEDULE A6-TOU

GENERAL SERVICE - TIME METERED OPTIONAL

SPECIAL CONDITIONS (Continued)

10. Limitation on Non-Standard Seasonal Changeover Availability: At the utility's sole option, the optional non-standard seasonal changeover provision is available to no more than ten additional Schedule AL-TOU and Schedule A6-TOU customers annually and; service will be provided in the order in which requests are received.

11. Basic Service Fee Determination: The basic service fee will be determined based on the customer's Maximum Annual Demand.

12. Billing: A customer's bill is first calculated according to the total rates and conditions listed above. The following adjustments are made depending on the option applicable to the customer:

    a. **UDC Bundled Service Customers** receive supply and delivery services solely from SDG&E. The customer's bill is based on the Total Rates set forth above. The EECC component is determined by multiplying the EECC price for this schedule during the last month by the customer's total usage.

    b. **Direct Access Customers** purchase energy from an energy service provider (ESP) and continue to receive delivery services from SDG&E. The bill for a Direct Access Customer

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Revised Cal. PUC Sheet No. 37547-E
Cancelling Revised Cal. PUC Sheet No. 37438-E

Schedule GS-2
GENERAL SERVICE - DEMAND

APPLICABILITY

Applicable to single- and three-phase service including lighting and power, except that the customer whose monthly Maximum Demand, in the opinion of SCE, is expected to exceed 500 kW or has exceeded 500 kW for any three months during the preceding 12 months is ineligible for service under this Schedule. Effective with the date of ineligibility, the customer's account shall be transferred to Schedule TOU-8. Further, any customer served under this Schedule whose monthly Maximum Demand has registered 20 kW or less for 12 consecutive months is eligible for service under another applicable rate schedule. However, a Schedule GS-2 customer who makes a permanent change in operating conditions that SCE, in its sole opinion, anticipates will reduce the customer's demand to 20 kW or less, may transfer to another applicable rate schedule before completing 12 consecutive months at 20 kW or less. Such customer shall be required to sign the Permanent Change in Operating Conditions Declaration, Form No. 14-548. Customers served under this Schedule with monthly Maximum Demands that reach or exceed 200 kW in any three months during the preceding 12 months shall have a Real Time Energy Meter (RTEM) or other type of interval meter installed and shall receive service under the Time-of-Use (TOU) pricing provision of the Energy Charge of this Schedule, or may elect service under another applicable TOU rate schedule. This Schedule is subject to meter availability.

TERRITORY

Within the entire territory served.

RATES

	Delivery Service							Gen[8]	
	Trans[1]	Distrbtn[2]	NDC[3]	PPPC[4]	PUCRF[5]	DWRBC[6]	Total[7]	URG	DWR
Energy Charge - $/kWh/Meter/Month									
Non TOU									
For the first 300 kWh per kW of Maximum Demand	0.00058 (R)	0.00954	0.00056	0.00366	0.00000	0.00493	0.01927 (R)	0.07149	0.08087
All excess kWh	0.00058 (R)	0.00954	0.00056	0.00366	0.00000	0.00493	0.01927 (R)	0.08365	0.08087
TOU Pricing Option									
Summer Season – On-Peak	0.00058 (R)	0.00954	0.00056	0.00366	0.00000	0.00493	0.01927 (R)	0.11845	0.08087
Mid-Peak	0.00058 (R)	0.00954	0.00056	0.00366	0.00000	0.00493	0.01927 (R)	0.07353	0.08087
Off-Peak	0.00058 (R)	0.00954	0.00056	0.00366	0.00000	0.00493	0.01927 (R)	0.06081	0.08087
Winter Season – Mid-Peak	0.00058 (R)	0.00954	0.00056	0.00366	0.00000	0.00493	0.01927 (R)	0.08003	0.08087
Off-Peak	0.00058 (R)	0.00954	0.00056	0.00366	0.00000	0.00493	0.01927 (R)	0.06081	0.08087
Customer Charge - $/Meter/Month	0.00	67.78					67.78	6.25	
Demand Charge - $/kW of Billing Demand/Meter/Month									
Facilities Related	1.09	4.35					5.44	0.77	
Time Related Summer	0.00	7.04					7.04	1.87	
Winter	0.00	0.00					0.00	0.00	
Single Phase Service - $/Month	0.00	(2.40)					(2.40)	0.00	
Excess Transformer Capacity - $/kVA/Month	0.00	1.00					1.00	0.00	
Power Factor Adjustment - $/kVA/Month									
Greater than 50 kV	0.00	0.18					0.18	0.00	
50 kV or less	0.00	0.23					0.23	0.00	

(Continued)

SOUTHERN CALIFORNIA EDISON

Southern California Edison
Rosemead, California

	Revised	Cal. PUC Sheet No.	37548-E
Cancelling	Revised	Cal. PUC Sheet No.	36980-E

Schedule GS-2 Sheet 2

GENERAL SERVICE - DEMAND

Schedule GS-2
GENERAL SERVICE - DEMAND

Sheet 3 (T)

(Continued)

SPECIAL CONDITIONS

1. Time periods are defined as follows:

On-Peak:	Noon to 6:00 p.m. summer weekdays except holidays
Mid-Peak:	8:00 a.m. to Noon and 6:00 p.m. to 11:00 p.m. summer weekdays except holidays 8:00 a.m. to 9:00 p.m. winter weekdays except holidays
Off-Peak:	All other hours.

Holidays are New Year's Day (January 1), Washington's Birthday (third Monday in February), Memorial Day (last Monday in May), Independence Day (July 4), Labor Day (first Monday in September), Veterans Day (November 11), Thanksgiving Day (fourth Thursday in November), and Christmas (December 25).

When any holiday listed above falls on Sunday, the following Monday will be recognized as an off-peak period. No change will be made for holidays falling on Saturday.

The summer season shall commence at 12:00 a.m. on the first Sunday in June and continue until 12:00 a.m. of the first Sunday in October of each year. The winter season shall commence at 12:00 a.m. on the first Sunday in October of each year and continue until 12:00 a.m. of the first Sunday in June of the following year. A pro rata computation will be made for seasonal billing purposes.

2. State Funded Interval Meters: Upon installation of a State funded interval meter, a customer served under this Schedule shall be provided service under the TOU Pricing Option of this Schedule. Customers provided service under this Schedule's TOU Pricing Option shall have such service become effective the first scheduled meter read date following installation of a State funded interval meter.

3. TOU Pricing Option: Customers served under this Schedule who do not receive a State funded interval meter may elect the TOU Pricing Option only after installation of an interval meter at the customer's expense.

4. Voltage: Service will be supplied at one standard voltage.

5. Billing Demand: The Billing Demand shall be the kilowatts of Maximum Demand, determined to the nearest kW. The Demand Charge shall include the following billing components. The Time Related Component shall be for the kilowatts of Maximum Demand recorded during (or established for) the monthly billing period. The Facilities Related Component shall be for the greater of the kilowatts of Maximum Demand recorded during (or established for) the monthly billing period or 50% of the highest Maximum Demand established in the preceding eleven months (Ratcheted Demand). However, when SCE determines the customer's meter will record (T)
little or no energy use for extended periods of time or when the customer's meter has not (T)
recorded a Maximum Demand in the preceding eleven months, the Facilities Related Component of the Demand Charge may be established at 50 percent of the customer's (T)
connected load.

(Continued)

Schedule GS-2
GENERAL SERVICE - DEMAND

Sheet 4 (T)

(Continued)

SPECIAL CONDITIONS (Continued)

6. Maximum Demand: The maximum demand in any month shall be the measured maximum average kilowatt input, indicated or recorded by instruments, during any 15-minute metered interval in the month, but, where applicable, shall not be less than the diversified resistance welder load computed in accordance with the section designated Welder Service in Rule 2. Where the demand is intermittent or subject to violent fluctuations, a 5-minute interval may be used. (T) (T)

7. Single-Phase Service: Where SCE provides single-phase service, the billing will be reduced by the amount shown in the Rates section, above. (T) (T)

8. Excess Transformer Capacity: Excess Transformer Capacity is the amount of transformer capacity requested by a customer in excess of that which the Company would normally install to serve the customer's Maximum Demand. Excess Transformer Capacity shall be billed at the amount shown in the Rates section, above. (T)

9. Voltage Discount: The monthly Facilities Related Demand Charge will be reduced by 23.3% for service delivered and metered at voltages of 2 kV through 50 kV and by 71.1% for service delivered and metered at voltages over 50 kV. The discount applied to Energy Charges is calculated by taking the Base Rate Energy Charge in effect on June 10, 1996 of $0.02307 per kWh and multiplying by 3.2% for service delivered and metered at voltages of 2 kV through 50 kV, and by 14.8% for service delivered and metered at voltages over 50 kV.

10. Power Factor Adjustment: When the Maximum Demand has exceeded 200 kW for three consecutive months, kilovar metering will be installed as soon as practical, and, thereafter, until the Maximum Demand has been less than 150 kW for twelve consecutive months, the billing will be increased each month for power factor by the amount shown in the Rates section above for service metered and delivered at the applicable voltage level, based on the per kilovar of maximum Reactive Demand imposed on SCE. The reactive demand will be determined as follows: (T) | | (T)

    a. Service metered and delivered at voltages of 4 kV or greater and for all Cogeneration and Small Power Production customers: (T)

    The maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15-minute metered interval in the month. The kilovars shall be determined to the nearest unit. A device will be installed on each kilovar meter to prevent reverse operation of the meter.

(Continued)

Schedule GS-2 Sheet 5 (T)
GENERAL SERVICE - DEMAND

(Continued)

SPECIAL CONDITIONS (Continued)

10. Power Factor Adjustment: (Continued)

b. Service metered and delivered at voltages Less than 4 kV: (T)

(1) For customers with metering used for billing that measures reactive demand. (T)

The maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15-minute metered interval in the month. The kilovars shall be determined to the nearest unit. A device will be installed on each kilovar meter to prevent reverse operation of the meter.

(2) For customers with metering used for billing that measures kilovar-hours instead of reactive demand. (T)

The kilovars of reactive demand shall be calculated by multiplying the kilowatts of measured maximum demand by the ratio of the kilovar-hours to the kilowatthours. Demands in kilowatts and kilovars shall be determined to the nearest unit. A ratchet device will be installed on the kilovar-hour meter to prevent its reverse operation on leading power factors.

11. Temporary Discontinuance of Service: Where the use of energy is seasonal or intermittent, no adjustments will be made for a temporary discontinuance of service. Any customer resuming service within twelve months after such service was discontinued will be required to pay all charges which would have been billed if service had not been discontinued.

(Continued)

Schedule GS-2
GENERAL SERVICE - DEMAND

(Continued)

SPECIAL CONDITIONS (Continued)

12. Customer-Owned Electrical Generating Facilities:

a. Where customer-owned electrical generating facilities are used to meet a part or all of the customer's electrical requirements, service shall be provided concurrently under the terms and conditions of Schedule S and this Schedule. Parallel operation of such generating facilities with SCE's electrical system is permitted. A generation interconnection agreement is required for such operation.

b. Customer-owned electrical generating facilities used solely for auxiliary, emergency, or standby purposes (auxiliary/emergency generating facilities) to serve the customer's load during a period when SCE's service is unavailable and when such load is isolated from the service of SCE are not subject to Schedule S. However, upon approval by SCE, momentary parallel operation may be permitted to allow the customer to test the auxiliary/emergency generating facilities. A Momentary Parallel Generation Contract is required for this type of service.

13. CARE Discount: Customers who meet the definition of a group living facility as defined in the Preliminary Statement, Part O, Section 3.f., may qualify for an Energy Charge credit and a 20% discount off of their bill after the Energy Charge credit, shown below, has been applied, and prior to application of the PUC Reimbursement Fee and any applicable user fees, taxes, and late payment charges. Customers eligible for the CARE Discount will not be required to pay the CARE Surcharge. as set forth in Preliminary Statement, Part O, Section 5 and are not subject to the DWRBC rate component of the Total charges for Delivery Service. An Application and Eligibility Declaration (Form No. 14-526), as defined in the Preliminary Statement, Part O, Section 3.h., is required for service under this Special Condition. Eligible customers shall be billed on this Schedule commencing no later than one billing period after receipt and approval of the customer's application by SCE. Customers may be rebilled on the applicable rate schedule for periods in which they do not meet the eligibility requirements for the CARE discount as defined in the Preliminary Statement, Part O, Section 3.g. and Section 3.i. (N)(T) (N)

Energy Charge Credit - $/kWh

	1st Block	$0.02476
	2nd Block	$0.06993

Time-of-Use Energy Charge Credit - $/kWh

Summer	On-Peak	$0.06832
	Mid-Peak	$0.02341
	Off-Peak	$0.01070
Winter	Mid-Peak	$0.02991
	Off-Peak	$0.01070

(N) (N)

(Continued)

Schedule GS-2
GENERAL SERVICE - DEMAND

Sheet 7 (T)

(Continued)

SPECIAL CONDITIONS (Continued)

14. Bill Limiter: For customers transferred to Schedule GS-2 for the first time due to becoming ineligible for service under Schedule GS-1, the customer's total monthly bill for charges under Schedule GS-2, excluding the Public Utilities Reimbursement Fee, California Alternate Rates for Energy Surcharge, as set forth in Preliminary Statement, Part O, Section 5, Power Factor Adjustment, and Excess Transformer Capacity charge, shall for the first three years following transfer be limited to no more than the customer's comparable monthly bill for charges under Schedule GS-1 for the same period plus the following percentages: (T)

Period	Percentages
1st Year	10
2nd Year	20
3rd Year	30

The Bill Limiter shall not apply commencing in the fourth year after the customer has transferred to Schedule GS-2. This Special Condition is applicable to customers purchasing Delivery and Generation services from SCE pursuant to this Schedule. Direct Access customers and customers receiving Transitional Bundled Service are not eligible. (N) (N)

15. Billing Calculation: A customer's bill is calculated according to the rates and conditions above. (C)

Except for the Energy Charge, the charges listed in the Rates section are calculated by multiplying the Total Delivery Service rates and the Generation rates, when applicable, by the billing determinants (e.g., per kilowatt [kW], kilowatthour [kWh], kilovar [kVa] etc.),

The Energy Charge, however, is determined by multiplying the total kWhs by the Total Delivery Service per kWh rates to calculate the Delivery Service amount of the Charge. To calculate the Generation amount, SCE determines what portion of the total kWhs is supplied by the Utility Retained Generation (URG) and the Department of Water Resources (DWR). The kWhs supplied by the URG are multiplied by the URG per kWh rates and the kWhs supplied by the DWR are multiplied by the DWR per kWh rate and the two products are summed to arrive at the Generation amount. The Energy Charge is the sum of the Delivery Service amount and the Generation amount.

For each billing period, SCE determines the portion of total kWhs supplied by SCE's URG and by the DWR. This determination is made by averaging the daily percentages of energy supplied to SCE's Bundled Service Customers by SCE's URG and by the DWR.

a. Bundled Service Customers receive Delivery Service from SCE and receive supply (Gen) service from both SCE's URG and the DWR. The customer's bill is the sum of the charges for Delivery Service and Gen determined, as described in this Special Condition, and subject to applicable discounts or adjustments provided under SCE's tariff schedules.

b. Direct Access Customers receive Delivery Service from SCE and purchase energy from an Energy Service Provider. The customer's bill is the sum of the charges for Delivery Service determined as described in this Special Condition except that the DWRBC rate component is subtracted from the Total Delivery Service rates before the billing determinants are multiplied by such resulting Total rates; plus the applicable charges as shown in Schedule DA and subject to applicable discounts or adjustments provided under SCE's tariff schedules. (C)

(Continued)

Schedule GS-2
GENERAL SERVICE - DEMAND

(Continued)

SPECIAL CONDITIONS (Continued)

16. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (D) (T)

Sub-transmission customers, except for those customers exempt from rotating outages, are to be included in controlled, rotating outages when required by the Independent System Operator (ISO). To the extent feasible, SCE will coordinate rotating outages applicable to Sub-transmission customers who are fossil fuel producers and pipeline operators and users to minimize disruption to public health and safety. SCE shall not include a Sub-transmission customer in an applicable rotating outage group if the customer's inclusion would jeopardize electric system integrity. Sub-transmission customers who are not exempt from rotating outages, and seek such exemption, may submit an Optional Binding Mandatory Curtailment (OBMC) Plan to SCE in accordance with Schedule OBMC. If SCE approves a customer's OBMC Plan, the customer will become exempt from rotating outages and will be subject to the terms and conditions of Schedule OBMC and its associated contract.

Non-exempt Sub-transmission customers shall be required to drop their entire electrical load during applicable rotating outages by either (1) implementing the load reduction on their own initiative, in accordance with subsection a, below; or (2) having SCE implement the load reduction through remote-controlled load drop equipment (control equipment) in accordance with subsection b, below. A Sub-transmission customer shall normally be subject to the provisions of subsection a. If SCE approves a customer's request to have SCE implement the load reduction or if the customer does not comply with prior required load reductions, as specified in subsection c, the customer will be subject to the provisions of subsection b.

a. Customer-Implemented Load Reduction.

(i) Notification of Required Load Reduction. At the direction of the ISO, SCE shall notify each Sub-transmission customer in an affected rotating outage group to drop its entire load. Within 30 minutes of such notification, the customer must drop its entire load. The customer shall not return the dropped load to service until 90 minutes after SCE sent the notification to the customer to drop its load, unless SCE notifies the customer that it may return its load to service prior to the expiration of the 90 minutes.

Schedule GS-2 Sheet 9 (T)
GENERAL SERVICE - DEMAND

(Continued)

SPECIAL CONDITIONS (Continued)

16. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued)

a. Customer-Implemented Load Reduction. (Continued)

(ii) Method of Notification. SCE will notify Sub-transmission customers who are required to implement their own load reduction via telephone, by either an automated calling system or a manual call to a business telephone number or cellular phone number designated by the customer. The designated telephone number will be used for the sole purpose of receiving SCE's rotating outage notification and must be available to receive the notification at all times. When SCE sends the notification to the designated telephone number the customer is responsible for dropping its entire load in accordance with subsection a. (i), above. The customer is responsible for informing SCE, in writing, of the telephone number and contact name for purposes of receiving the notification of a rotating outage.

(iii) Excess Energy Charges. If a Sub-transmission customer fails to drop its entire load within 30 minutes of notification by SCE, and/or fails to maintain the entire load drop until 90 minutes after the time notification was sent to the customer, unless SCE otherwise notified the customer that it may return its load to service earlier in accordance with subsection a. (i) above, SCE shall assess Excess Energy Charges of $6 per kWh for all kWh usage in excess of the Authorized Residual Ancillary Load. Such charges will be based on the total kWh usage during the applicable rotating outage penalty period, less the product of Authorized Residual Ancillary Load in kW and the applicable rotating outage penalty period in hours. Excess Energy Charges will be determined and applied by SCE subsequent to the

Schedule GS-2 Sheet 10 (T)
GENERAL SERVICE - DEMAND

(Continued)

SPECIAL CONDITIONS (Continued)

16. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued)

b. SCE-Implemented Load Reduction.

Non-exempt Sub-transmission customers may request, in writing, to have SCE drop the customer's entire load during all applicable rotating outages using SCE's remote-controlled load drop equipment (control equipment). If SCE agrees to such arrangement, SCE will implement the load drop by using one of the following methods:

(i) Control Equipment Installed. For a Sub-transmission customer whose load can be dropped by SCE's existing control equipment, SCE will implement the load drop during a rotating outage applicable to the customer. The customer will not be subject to the Notification and Excess Energy Charge provisions set forth in subsection a, above.

(ii) Control Equipment Pending Installation. For a Sub-transmission customer whose load can not be dropped by SCE's existing control equipment, the customer must request the installation of such equipment at the customer's expense in accordance with SCE's Rule 2, Section H, Added Facilities. Pending the installation of the control equipment, the customer will be responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy Charge provisions.

c. Non-compliance: A non-exempt Sub-transmission customer subject to subsection a, above, who fails to drop load during three rotating outages in a three year period to a demand level of 20% or less of the customer's prior billing month's recorded Maximum Demand averaged over the applicable rotating outage period, is not in compliance with this tariff. The three year period shall commence with the first failure to drop load as specified in this subsection. A customer not in compliance with this condition will be placed at the top of the Sub-transmission customer rotating outage group list and will be expected to comply with subsequent applicable rotating outages. In addition, the customer must select one of the two options below within fifteen days after receiving written notice of non-compliance from SCE. A customer failing to make a selection within the specified time frame will be subject to subsection c. (ii) below. (T)

(i) Subject to Schedule OBMC: The customer shall submit an OBMC Plan, in accordance with Schedule OBMC, within 30 calendar days of receiving written notice of non-compliance from SCE. Pending the submittal of the OBMC Plan by the customer and pending the review and acceptance of the OBMC Plan by SCE, the customer will remain responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy charge provisions. If the customer fails to submit an OBMC Plan within 30 days of receiving notice of non-compliance from SCE, or if the customer's OBMC Plan is not approved by SCE, or if the customer fails to meet the requirements of Schedule OBMC once the OBMC Plan is approved, the customer shall be subject subsection c. (ii), below.

(Continued)

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Revised Cal. PUC Sheet No. 33798-E*
Cancelling Revised Cal. PUC Sheet No. 34797-E

Schedule GS-2
GENERAL SERVICE - DEMAND

Sheet 11 (T)

(Continued)

SPECIAL CONDITION`S (Continued)

16. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued)

c. Non-compliance: (Continued)

(ii) Installation of Control Equipment. The customer shall be subject to the installation of control equipment at the customer's expense in accordance with SCE's Rule 2, Section H, Added Facilities, if such equipment is not currently installed. If such switching capability is installed, SCE will drop the customer's load for all applicable subsequent rotating outages in accordance with the

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Revised Cal. PUC Sheet No. 37572-E
Cancelling Revised Cal. PUC Sheet No. 37459-E

Schedule TOU-8
TIME-OF-USE - GENERAL SERVICE - LARGE

APPLICABILITY

Applicable to general service including lighting and power, except agricultural water pumping accounts as described in Special Condition 12. This Schedule is applicable to and mandatory for all customers whose monthly maximum demand, in the opinion of SCE, is expected to exceed 500 kW or has exceeded 500 kW in any three months during the preceding 12 months, except that customers served on this Schedule may elect service under any applicable schedules optional hereto. Except for interruptible service customers, any existing customer on this Schedule whose monthly maximum demand has registered 500 kW or less for 12 consecutive months is ineligible for service under this Schedule (See Special Condition 11). Service under this Schedule is subject to meter availability.

TERRITORY

Within the entire territory served.

RATES

The following rates are set forth for service metered and delivered at secondary, primary, and subtransmission voltages.

SERVICE METERED AND DELIVERED AT VOLTAGES BELOW 2 KV

	Delivery Service							Gen[8]	
	Trans[1]	Distrbtn[2]	NDC[3]	PPPC[4]	PUCRF[5]	DWRBC[6]	Total[7]	URG	DWR
Energy Charge - $/kWh/Meter/Month									
Summer Season – On-Peak	0.00042 (R)	0.00766	0.00049	0.00326	0.00000	0.00493	0.01676 (R)	0.11219	0.08087
Mid-Peak	0.00042 (R)	0.00766	0.00049	0.00326	0.00000	0.00493	0.01676 (R)	0.05263	0.08087
Off-Peak	0.00042 (R)	0.00766	0.00049	0.00326	0.00000	0.00493	0.01676 (R)	0.03847	0.08087
Winter Season – On-Peak	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mid-Peak	0.00042 (R)	0.00766	0.00049	0.00326	0.00000	0.00493	0.01676 (R)	0.06138	0.08087
Off-Peak	0.00042 (R)	0.00766	0.00049	0.00326	0.00000	0.00493	0.01676 (R)	0.03922	0.08087
Customer Charge - $/Meter/Month	0.00	246.33					246.33	88.22	
Demand Charge-$/kW of Billing Demand/Meter/Month									
Facilities Related	1.26	5.09					6.35	0.97	
Time Related									
Summer Season – On-Peak	0.00	8.84					8.84	8.79	
Mid-Peak	0.00	0.76					0.76	1.82	
Off-Peak	0.00	0.00					0.00	0.00	
Winter Season – On-Peak	N/A	N/A					N/A	N/A	
Mid-Peak	0.00	0.00					0.00	0.00	
Off-Peak	0.00	0.00					0.00	0.00	
Excess Transformer Capacity - $/kVA/Month	0.00	1.00					1.00	0.00	
Power Factor Adjustment - $/KVA	0.00	0.23					0.23	0.00	

(Continued)

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Cancelling Revised Cal. PUC Sheet No. 37460-E

Schedule TOU-8
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

RATES (Continued)

SERVICE METERED AND DELIVERED AT VOLTAGES BELOW 2 kV (Continued)

	Delivery Service							Gen[8]	
	Trans[1]	Distrbtn[2]	NDC[3]	PPPC[4]	PUCRF[5]	DWRBC[6]	Total[7]	URG	DWR
Peak Period Rate Limiter* - $/kWh Summer only								0.97677	
Average Rate Limiter* - $/kWh Summer only								0.30221	
Economic Development Rate Discount - %		100.00					100.00**		

* During summer months the Peak Period Rate Limiter and Average Rate Limiter will apply (see Special Condition 12 and 13).
** Represents 100% of the discount percentage as shown in the applicable Special Condition of this Schedule.
1 Trans = Transmission and the Transmission Owners Tariff Charge Adjustments (TOTCA) which are FERC approved. The TOTCA represents the Transmission Revenue Balancing Account Adjustment (TRBAA) of negative $0.00089 per kWh, Reliability Services (I) Balancing Account Adjustment (RSBAA) of $0.00090 per kWh, and Transmission Access Charge Balancing Account Adjustment (I) (TACBAA) of $0.00041 per kWh.
2 Distrbtn = Distribution
3 NDC = Nuclear Decommissioning Charge
4 PPPC = Public Purpose Programs Charge
5 PUCRF = The PUC Reimbursement Fee is described in Schedule RF-E.
6 DWRBC = Department of Water Resources (DWR) Bond Charge. The DWR Bond Charge is not applicable to exempt Bundled Service and Direct Access Customers, as defined in and pursuant to D.02-10-063, D.02-02-051, and D.02-12-082.
7 Total = Total Delivery Service rates that are applicable to both Bundled Service and Direct Access (DA) Customers, except DA Customers are not subject to the DWRBC rate component of this Schedule but instead pay the DWRBC as provided by Schedule DA.
8 Gen = Generation – The Gen rates are applicable only to Bundled Service Customers. When calculating the Energy Charge, the Gen portion is calculated as described in the Billing Calculation Special Condition of this Schedule.

SERVICE METERED AND DELIVERED AT VOLTAGES FROM 2 kV THROUGH 50 KV

	Delivery Service							Gen[8]	
	Trans[1]	Distrbtn[2]	NDC[3]	PPPC[4]	PUCRF[5]	DWRBC[6]	Total[7]	URG	DWR
Energy Charge - $/kWh/Meter/Month									
Summer Season – On-Peak	0.00030 (R)	0.00708	0.00043	0.00300	0.00000	0.00493	0.01574 (R)	0.11027	0.08087
Mid-Peak	0.00030 (R)	0.00708	0.00043	0.00300	0.00000	0.00493	0.01574 (R)	0.05315	0.08087
Off-Peak	0.00030 (R)	0.00708	0.00043	0.00300	0.00000	0.00493	0.01574 (R)	0.03936	0.08087
Winter Season – On-Peak	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mid-Peak	0.00030 (R)	0.00708	0.00043	0.00300	0.00000	0.00493	0.01574 (R)	0.06124	0.08087
Off-Peak	0.00030 (R)	0.00708	0.00043	0.00300	0.00000	0.00493	0.01574 (R)	0.04011	0.08087
Customer Charge - $/Meter/Month	0.00	246.64					246.64	88.31	
Demand Charge-$/kW of Billing Demand/Meter/Month									
Facilities Related	1.31	5.27					6.58	0.98	
Time Related									
Summer Season – On-Peak	0.00	9.24					9.24	8.87	
Mid-Peak	0.00	0.78					0.78	1.72	
Off-Peak	0.00	0.00					0.00	0.00	
Winter Season – On-Peak	N/A	N/A					N/A	N/A	
Mid-Peak	0.00	0.00					0.00	0.00	
Off-Peak	0.00	0.00					0.00	0.00	

(Continued)

SOUTHERN CALIFORNIA EDISON

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Revised Cal. PUC Sheet No. 37574-E
Cancelling Revised Cal. PUC Sheet No. 37461-E

Schedule TOU-8
TIME-OF-USE - GENERAL SERVICE - LARGE

Sheet 3

(Continued)

RATES (Continued)

SERVICE METERED AND DELIVERED AT VOLTAGES FROM 2 KV THROUGH 50 KV (Continued)

	Delivery Service							Gen[8]	
	Trans[1]	Distrbtn[2]	NDC[3]	PPPC[4]	PUCRF[5]	DWRBC[6]	Total[7]	URG	DWR
Excess Transformer Capacity - $/kVA/Month	0.00	1.00					1.00	0.00	
Power Factor Adjustment - $/KVA	0.00	0.23					0.23	0.00	
Peak Period Rate Limiter* - $/kWh Summer only								0.95723	
Average Rate Limiter* - $/kWh Summer only								0.29604	
Economic Development Rate Discount - %		100.00					100.00**		

* During summer months the Peak Period Rate Limiter and Average Rate Limiter will apply (see Special Condition 12 and 13).
** Represents 100% of the discount percentage as shown in the applicable Special Condition of this Schedule.
1 Trans = Transmission and the Transmission Owners Tariff Charge Adjustments (TOTCA) which are FERC approved. The TOTCA represents the Transmission Revenue Balancing Account Adjustment (TRBAA) of negative $0.00089 per kWh, Reliability Services (I) Balancing Account Adjustment (RSBAA) of $0.00078 per kWh, and Transmission Access Charge Balancing Account Adjustment (I) (TACBAA) of $0.00041 per kWh.
2 Distrbtn = Distribution
3 NDC = Nuclear Decommissioning Charge
4 PPPC = Public Purpose Programs Charge
5 PUCRF = The PUC Reimbursement Fee is described in Schedule RF-E.
6 DWRBC = Department of Water Resources (DWR) Bond Charge. The DWR Bond Charge is not applicable to exempt Bundled Service and Direct Access Customers, as defined in and pursuant to D.02-10-063, D.02-02-051, and D.02-12-082.
7 Total = Total Delivery Service rates that are applicable to both Bundled Service and Direct Access (DA) Customers, except DA Customers are not subject to the DWRBC rate component of this Schedule but instead pay the DWRBC as provided by Schedule DA.
8 Gen = Generation – The Gen rates are applicable only to Bundled Service Customers. When calculating the Energy Charge, the Gen portion is calculated as described in the Billing Calculation Special Condition of this Schedule.

SERVICE METERED AND DELIVERED AT VOLTAGES ABOVE 50 KV

	Delivery Service							Gen[8]	
	Trans[1]	Distrbtn[2]	NDC[3]	PPPC[4]	PUCRF[5]	DWRBC[6]	Total[7]	URG	DWR
Energy Charge - $/kWh/Meter/Month									
Summer Season – On-Peak	0.00021 (R)	0.00425	0.00026	0.00218	0.00000	0.00493	0.01183 (R)	0.09693	0.08087
Mid-Peak	0.00021 (R)	0.00425	0.00026	0.00218	0.00000	0.00493	0.01183 (R)	0.04502	0.08087
Off-Peak	0.00021 (R)	0.00425	0.00026	0.00218	0.00000	0.00493	0.01183 (R)	0.03694	0.08087
				0.00218					
Winter Season – On-Peak	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mid-Peak	0.00021 (R)	0.00425	0.00026	0.00218	0.00000	0.00493	0.01183 (R)	0.05150	0.08087
Off-Peak	0.00021 (R)	0.00425	0.00026	0.00218	0.00000	0.00493	0.01183 (R)	0.03766	0.08087
Customer Charge - $/Meter/Month	0.00	288.25					288.25	103.21	
Demand Charge-$/kW of Billing Demand/Meter/Month									
Facilities Related	1.25	0.33					1.58	0.00	
Time Related									
Summer Season – On-Peak	0.00	6.81					6.81	6.68	
Mid-Peak	0.00	0.59					0.59	1.29	
Off-Peak	0.00	0.00					0.00	0.00	
Winter Season – On-Peak	N/A	N/A					N/A	N/A	
Mid-Peak	0.00	0.00					0.00	0.00	
Off-Peak	0.00	0.00					0.00	0.00	

(Continued)

(To be inserted by utility)
Advice 1854-E
Decision

Issued by
John R. Fielder
Senior Vice President

(To be inserted by Cal. PUC)
Date Filed Dec 30, 2004
Effective
Resolution

3C14

Schedule TOU-8 Sheet 4
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

RATES (Continued)

SERVICE METERED AND DELIVERED AT VOLTAGES ABOVE 50 KV (Continued)

	Delivery Service							Gen[8]	
	Trans[1]	Distrbtn[2]	NDC[3]	PPPC[4]	PUCRF[5]	DWRBC[6]	Total[7]	URG	DWR
Excess Transformer Capacity - $/kVA/Month	0.00	1.00					1.00	0.00	
Power Factor Adjustment - $/KVA	0.00	0.18					0.18	0.00	
Peak Period Rate Limiter* - $/kWh Summer only								0.72353	
Economic Development Rate Discount - %		100.00					100.00**		
Voltage Discount, 220 kV - %		100.00					100.00**		

* During summer months the Peak Period Rate Limiter will apply (see Special Condition 12).
** Represents 100% of the discount percentage as shown in the applicable Special Condition of this Schedule.
1 Trans = Transmission and the Transmission Owners Tariff Charge Adjustments (TOTCA) which are FERC approved. The TOTCA represents the Transmission Revenue Balancing Account Adjustment (TRBAA) of negative $0.00089 per kWh, Reliability Services (I) Balancing Account Adjustment (RSBAA) of $0.00069 per kWh, and Transmission Access Charge Balancing Account Adjustment (I) (TACBAA) of $0.00041 per kWh.
2 Distrbtn = Distribution
3 NDC = Nuclear Decommissioning Charge
4 PPPC = Public Purpose Programs Charge
5 PUCRF = The PUC Reimbursement Fee is described in Schedule RF-E.
6 DWRBC = Department of Water Resources (DWR) Bond Charge. The DWR Bond Charge is not applicable to exempt Bundled Service and Direct Access Customers, as defined in and pursuant to D.02-10-063, D.02-02-051, and D.02-12-082.
7 Total = Total Delivery Service rates that are applicable to both Bundled Service and Direct Access (DA) Customers, except DA Customers are not subject to the DWRBC rate component of this Schedule but instead pay the DWRBC as provided by Schedule DA.
8 Gen = Generation – The Gen rates are applicable only to Bundled Service Customers. When calculating the Energy Charge, the Gen portion is calculated as described in the Billing Calculation Special Condition of this Schedule.

SPECIAL CONDITIONS

Schedule TOU-8 Sheet 5
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

2. Voltage: Service will be supplied at one standard voltage.

3. Maximum Demand: Maximum demands shall be established for the On-Peak, Mid-Peak, and Off-Peak periods. The maximum demand for each period shall be the measured maximum average kilowatt input indicated or recorded by instruments, during any 15-minute metered interval, but, where applicable, not less than the diversified resistance welder load computed in accordance with the section designated Welder Service in Rule 2. Where the demand is intermittent or subject to violent fluctuations, a 5-minute interval may be used. (T) (T)

4. Billing Demand: The Billing Demand shall be the kilowatts of Maximum Demand, determined to the nearest kW. The Demand Charge shall include the following billing components. The Time Related Component shall be for the kilowatts of Maximum Demand recorded during (or established for) the monthly billing period for each of the On-Peak, Mid-Peak, and Off-Peak Time Periods. The Facilities Related Component shall be for the greater of the kilowatts of Maximum Demand recorded during (or established for) the monthly billing period or 50% of the highest Maximum Demand established in the preceding eleven months (Ratcheted Demand). However, when SCE determines the customer's meter will record little or no energy use for extended periods of time or when the customer's meter has not recorded a Maximum Demand in the preceding eleven months, the Facilities Related Component of the Demand Charge may be established at 50 percent of the customer's connected load. Separate Demand Charge(s) for the On-Peak, Mid-Peak, and Off-Peak Time Periods shall be established for each monthly billing period. The Demand Charge for each time period shall be based on the Maximum Demand for that time period occurring during the respective monthly billing period.

5. Excess Transformer Capacity: Excess Transformer Capacity is the amount of transformer capacity requested by a customer, or required by SCE, in excess of that which SCE would normally install to serve the customer's Maximum Demand. Excess Transformer Capacity shall be billed at the amount shown in the Rates section, above. (T)

(Continued)

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Southern California Edison
Rosemead, California

Revised Cal. PUC Sheet No. 34917-E
Cancelling Revised Cal. PUC Sheet No. 29043-E

Schedule TOU-8 Sheet 6
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

6. Power Factor Adjustment: The customer's bill will be increased each month for power factor by the amount shown in the Rates section above for service metered and delivered at the applicable voltage level, based on the per kilovar of maximum reactive demand imposed by SCE. (T) | (T)

   The maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15 minute metered interval in the month. The kilovars shall be determined to the nearest unit. A device will be installed on each kilovar meter to prevent reverse operation of the meter. (T)

7. Temporary Discontinuance of Service: Where the use of energy is seasonal or intermittent, no adjustments will be made for a temporary discontinuance of service. Any customer prior to resuming service within twelve months after such service was discontinued will be required to pay all charges which would have been billed if service had not been discontinued.

(Continued)

Schedule TOU-8 Sheet 7
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

8. Supplemental Visual Demand Meter: Subject to availability, and upon written application by the customer, SCE will, within 180 days, supply and install a SCE-owned supplemental visual demand meter. The customer shall provide the required space and associated wiring beyond the point of interconnection for such installation. Said supplemental visual demand meter shall be in parallel with the standard billing meter delineated in Special Condition 3 above. The readings measured or recorded by the supplemental visual demand meter are for customer information purposes only and shall not be used for billing purposes in lieu of meter readings established by the standard billing meter. If a meter having visual capability of displaying real time demand is installed by SCE as the standard billing meter, no additional metering will be installed pursuant to this Special Condition.

   One of the following types of supplemental visual demand meters will be provided in accordance with provisions above at no additional cost to the customer: Dial Wattmeter or Electronic Demand Monitor.

   If the customer desires a supplemental visual demand meter having features not available in any of the above listed meters, such as an electronic microprocessor-based meter, SCE will provide such a supplemental visual demand meter subject to a monthly charge, if the meter and its associated equipment have been approved for use by SCE. Upon receipt from the customer of a written application SCE will design the installation and will thereafter supply, install, and maintain the supplemental visual demand meter subject to all conditions stated in the first and last paragraph of this Special Condition. For purposes of computing the monthly charge, any such supplemental visual demand meter and associated equipment shall be treated as Added Facilities in accordance with Rule 2, Paragraph H, Section 1 and 2 of the tariff rules. Added investment for computing the monthly charge shall be reduced by SCE's estimated total installed cost at the customer location of the Electronic Demand Monitor offered otherwise herein at no additional cost. (T)

   SCE shall have sole access for purposes of maintenance and repair to any supplemental visual demand meter installed pursuant to this Special Condition and shall provide all required maintenance and repair. Periodic routine maintenance shall be provided at no additional cost to the customer. Such routine maintenance includes making periodic adjustments, lubricating moving parts and making minor repairs. Non-routine maintenance and major repairs or replacement shall be performed on an actual cost basis with the customer reimbursing SCE for such cost.

9. Contracts: An initial three-year facilities contract may be required where applicant requires new or added serving capacity exceeding 2,000 kVA.

(Continued)

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Revised Cal. PUC Sheet No. 34919-E
Cancelling Revised Cal. PUC Sheet No. 29045-E

Schedule TOU-8 Sheet 8
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

10. Customer-Owned Electrical Generating Facilities:

a. Where customer-owned electrical generating facilities are used to meet a part or all of the customer's electrical requirements, service shall be provided concurrently under the terms and conditions of Schedule S and this Schedule. Parallel operation of such generating facilities with SCE's electrical system is permitted. A generation interconnection agreement is required for such operation. (T) (T)

b. Customer-owned electrical generating facilities used solely for auxiliary, emergency, or standby purposes (auxiliary/emergency generating facilities) to serve the customer's load during a period when SCE's service is unavailable and when such load is isolated from the service of SCE are not subject to Schedule S. However, upon approval by SCE, momentary parallel operation may be permitted to allow the customer to test the auxiliary/emergency generating facilities. A Momentary Parallel Generation Contract is required for this type of service.

11. Removal From Schedule: Customers receiving service under this Schedule whose monthly Maximum Demand has registered 500 kW or less for 12 consecutive months shall be changed to an applicable rate schedule effective with the date the customer became ineligible for service under this Schedule. This Special Condition is not applicable to customers taking service under Schedule I-6.

12. Peak Period Rate Limiter: A firm service customer's total monthly bill under this Schedule, excluding the Public Utilities Commission (PUC) Reimbursement Fee, California Alternate Rates for Energy (CARE) Surcharge, as set forth in Preliminary Statement, Part O, Section 5, Power Factor Adjustment, Excess Transformer Capacity charge, Non-Time Related Demand Charge, and customer charges, shall be reduced, if necessary, so that the average rate during the On-Peak Period in a summer month does not exceed the peak period rate limiter for the appropriate service voltage level shown on this Schedule. This Special Condition is also applicable to firm service customers taking service under Schedule S. This Special Condition is applicable to customers purchasing Delivery and Generation services from SCE pursuant to this Schedule. This Special Condition is also applicable to firm customers taking service under Schedule S. Customers taking service under Schedule I-6, Direct Access customers, and customers receiving Transitional Bundled Service are not eligible. (N) (N)

13. Average Rate Limiter: For firm service customers with service metered and delivered at voltages 50 kV and below, the customer's total monthly bill under this Schedule, excluding the PUC Reimbursement Fee, CARE Surcharge, as set forth in Preliminary Statement, Part O,

[redacted]

Schedule TOU-8 Sheet 9
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

15. Qualifying Facilities Time Periods: Time Periods for power purchase payments to a cogeneration or small power production source which meets the criteria for a Qualifying Facility as defined under 18 CFR, Chapter 1, part 292, subpart B of the Federal Energy Regulatory Commission regulations and whose power purchase payments are based on the time-of-use periods set forth in this Schedule, shall be as defined under Special Condition 1 herein, except that: 1) consistent with the effective dates listed in the table below, the summer season shall commence at 12:00 a.m. on June 1 and continue until 12:00 a.m. on October 1 of each year; 2) consistent with the effective dates listed in the table below, the winter season shall commence at 12:00 a.m. on October 1 of each year and continue until 12:00 a.m. on June 1 of the following year; 3) for the winter season a Super Off-Peak time period of midnight to 6:00 a.m., everyday, shall apply. (T)

The Summer and Winter Season modifications defined above shall become effective for each Qualifying Facility based on its date of Firm Operation (or initial operation for non-firm Qualifying Facilities) as shown on the table below. Qualifying Facilities that began operation after the end of the Summer Season will be considered to have begun operation in the next year.

Firm Operation	Effective June 1
1985 and prior years	1994
1986	1993
1987	1992
1988	1992
1989	1993
1990	1994
1991	1993
1992 and years beyond	1992

Qualifying Facilities may elect, on a one-time basis, to receive metered kWh hourly deliveries rather than the above time periods. Those Qualifying Facilities not electing to make this change shall continue to receive power purchase payments for energy and capacity based on time-of-use and seasonal periods as defined above.

Schedule TOU-8 Sheet 10
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

16. Compensated Metering. This provision is applicable to service metered and delivered at voltages above 50 kV. Where customer/applicant requests and SCE agrees, SCE may install a transformer loss compensating device (Compensated Metering) acceptable to SCE in order to provide high voltage (over 50 kV) metered service. Where provided, this service will be considered as metered and delivered on SCE's side of the serving transformer. SCE shall rely on transformer loss data provided by the transformer manufacturer or transformer loss tests performed by SCE to calibrate the compensating device. Service under this provision is contingent upon customer/applicant's entering into an agreement which requires payment for the serving transformer and related substation equipment in accordance with Rule 2, Section H, Added Facilities, except where such transformer equipment is owned, operated, and maintained by the customer/applicant. Where the transformer equipment is owned, operated, and maintained by the customer/applicant, the customer/applicant is required to pay for the Compensated Metering and related equipment in accordance with Rule 2, Section H, Added Facilities, and shall also agree to provide SCE unrestricted access to the serving transformer, metering, and compensating equipment. (T) (T)

17. Economic Development Rate Discount: The economic development rate discount is applicable to new customers who agree to a written non-renewable contract and will locate new operations (new electric usage) within: Enterprise Zones designated by the State of California under the Enterprise Zone Act; Economic Incentive Areas designated by the State under the Employment and Economic Incentive Act; Recycling Market Development Zones designated by the California Integrated Waste Management Board under the Public Resource Code relating to solid waste; or federal military bases that are scheduled to be closed. Such new operations shall have loads that exceed 500 kW of monthly Maximum Demand. New customers locating on federal military bases scheduled for closure must declare their intention to continue as a customer of SCE after the base closure. Application will be limited to either a maximum of 50 qualified participants or a combined net load addition for all participants of 50 megawatts. The discount which is limited to a 3-year period, is 15 percent for the first 12 month period, 10 percent for the second 12 month period, and 5 percent for the third 12 month period. It shall be applied to the customer's total monthly bill excluding the PUC Reimbursement Fee, CARE Surcharge, as set forth in Preliminary Statement, Part O, Section 5, and any other applicable taxes and charges as specified in the Contract. For purposes of revenue accounting the discount will be deducted from the distribution component of the total rate.

(Continued)

Schedule TOU-8
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

17. Economic Development Rate Discount: (Continued)

New electric usage does not represent kWh and kW that already exists within the State of California.

The Contract provides for a delay in the commencement of the three-year economic development rate discount for up to a 24 month period to provide time to establish operations within Enterprise Zones, Economic Incentive Areas, or federal military bases scheduled for closure.

This Special Condition is not applicable to governmental entities, to customers taking service under Schedule S, or existing customers for incremental increases in electric load at existing operations whether or not such operations are located within Enterprise Zones, Economic Incentive Areas, Recycling Market Development Zones, or federal military bases scheduled for closure.

This Special Condition is closed to new customers as of December 31, 1998 and will expire December 31, 2003.

18. Rate Eligibility Criteria for Energy Efficiency (RECEE)

The purpose of the RECEE is to determine a customer's continued eligibility for service under this Schedule. The RECEE is applicable to customers currently receiving service under this Schedule and who have implemented energy efficiency measures on or after June 5, 1994 which have reduced the customer's monthly Maximum Demand to 500 kW or less. The RECEE is a fixed level of demand, determined by SCE, based on the customer's permanent demand reduction resulting from the implementation of energy efficiency measures. The RECEE demand is set forth in the Energy Efficiency Declaration, Form No.16-327.

The RECEE demand plus the customer's actual demand will be evaluated each billing period for purposes of determining the customer's continued eligibility for service under this Schedule. If the RECEE demand plus the customer's actual demand equals 500 kW or less for 12 consecutive months, the customer is ineligible for service under this Schedule and ineligible for application of the RECEE. The RECEE demand will not be used for purposes of calculating the customer's demand charge.

(Continued)

SOUTHERN CALIFORNIA EDISON
Southern California Edison
Rosemead, California

Revised Cal. PUC Sheet No. 34923-E**
Cancelling Revised Cal. PUC Sheet No. 34206-E

Schedule TOU-8
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

19. Voltage Discount: For customers receiving service at 220 kV, the customer's total monthly bill for charges under this Schedule, excluding the PUC Reimbursement Fee and CARE Surcharge as set forth in Preliminary Statement, Part O, Section 5, shall be reduced by 12.4 percent.

20. Optimal Billing Period Service: This experimental Special Condition provides for the voluntary use of an Optimal Billing Period (OBP) which allows for a customer's billing cycle(s) to coincide with the customer's high seasonal production cycle. The customer designates the OBP by selecting a specific month and day for the start of the OBP and a specific month and day for the end of the OBP. The start and end dates must fall within the customer's high seasonal production cycle. In no event shall any revised billing period exceed 45 days or be less than 15 days. (T)

To qualify for this option, the duration of the customer's high seasonal production cycle must be 6 months or less, and the average of the customer's monthly maximum demand during it's OBP must be at least double the average of its monthly maximum demand during it's non-OBP period. Customers may not discontinue this option before the end date of their OBP.

Prior to receiving OBP service, the customer shall sign the "Optimal Billing Period Service Agreement," Form No. 14-689 and pay an OBP fee of $160.00 per meter. To continue service under this Special Condition the customer must sign a new OBP Agreement and pay the OBP fee each year. (T)

This Special Condition shall expire upon implementation of tariff changes in SCE's 2003 General Rate Case.

21. Billing Calculation: A customer's bill is calculated according to the rates and conditions above. (C)

Except for the Energy Charge, the charges listed in the Rates section are calculated by multiplying the Total Delivery Service rates and the Generation rates, when applicable, by the billing determinants (e.g., per kilowatt [kW], kilowatthour [kWh], kilovar [kVa] etc.),

The Energy Charge, however, is determined by multiplying the total kWhs by the Total Delivery Service per kWh rates to calculate the Delivery Service amount of the Charge. To calculate the Generation amount, SCE determines what portion of the total kWhs is supplied by the Utility Retained Generation (URG) and the Department of Water Resources (DWR). The kWhs supplied by the URG are multiplied by the URG per kWh rates and the kWhs supplied by the DWR are multiplied by the DWR per kWh rate and the two products are summed to arrive at the Generation amount. The Energy Charge is the sum of the Delivery Service amount and the Generation amount. (C)
(L)

(Continued)

SOUTHERN CALIFORNIA EDISON
Southern California Edison
Rosemead, California

Revised Cal. PUC Sheet No. 34924-E**
Cancelling Revised Cal. PUC Sheet No. 33690-E

Schedule TOU-8 Sheet 13
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

21. Billing Calculation: (Continued)

For each billing period, SCE determines the portion of total kWhs supplied by SCE's URG and by the DWR. This determination is made by averaging the daily percentages of energy supplied to SCE's Bundled Service Customers by SCE's URG and by the DWR. (L) (C)

a. Bundled Service Customers receive Delivery Service from SCE and receive supply (Gen) service from both SCE's URG and the DWR. The customer's bill is the sum of the charges for Delivery Service and Gen determined, as described in this Special Condition, and subject to applicable discounts or adjustments provided under SCE's tariff schedules.

b. Direct Access Customers receive Delivery Service from SCE and purchase energy from an Energy Service Provider. The customer's bill is the sum of the charges for Delivery Service determined as described in this Special Condition except that the DWRBC rate component is subtracted from the Total Delivery Service rates before the billing determinants are multiplied by such resulting Total rates; plus the applicable charges as shown in Schedule DA and subject to applicable discounts or adjustments provided under SCE's tariff schedules. (L)(C)

22. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (D) (T)

Sub-transmission customers, except for those customers exempt from rotating outages, are to be included in controlled, rotating outages when required by the Independent System Operator (ISO). To the extent feasible, SCE will coordinate rotating outages applicable to Sub-transmission customers who are fossil fuel producers and pipeline operators and users to minimize disruption to public health and safety. SCE shall not include

Schedule TOU-8 Sheet 14
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

22. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued)

a. Customer-Implemented Load Reduction. (Continued)

(ii) Method of Notification. SCE will notify Sub-transmission customers who are required to implement their own load reduction via telephone, by either an automated calling system or a manual call to a business telephone number or cellular phone number designated by the customer. The designated telephone number will be used for the sole purpose of receiving SCE's rotating outage notification and must be available to receive the notification at all times. When SCE sends the notification to the designated telephone number the customer is responsible for dropping its entire load in accordance with subsection a. (i), above. The customer is responsible for informing SCE, in writing, of the telephone number and contact name for purposes of receiving the notification of a rotating outage.

(iii) Excess Energy Charges. If a Sub-transmission customer fails to drop its entire load within 30 minutes of notification by SCE, and/or fails to maintain the entire load drop until 90 minutes after the time notification was sent to the customer, unless SCE otherwise notified the customer that it may return its load to service earlier in accordance with subsection a. (i) above, SCE shall assess Excess Energy Charges of $6 per kWh for all kWh usage in excess of the Authorized Residual Ancillary Load. Such charges will be based on the total kWh usage during the applicable rotating outage penalty period, less the product of Authorized Residual Ancillary Load in kW and the applicable

Schedule TOU-8 Sheet 15
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

22. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued)

b. SCE-Implemented Load Reduction.

Non-exempt Sub-transmission customers may request, in writing, to have SCE drop the customer's entire load during all applicable rotating outages using SCE's remote-controlled load drop equipment (control equipment). If SCE agrees to such arrangement, SCE will implement the load drop by using one of the following methods:

(i) Control Equipment Installed. For a Sub-transmission customer whose load can be dropped by SCE's existing control equipment, SCE will implement the load drop during a rotating outage applicable to the customer. The customer will not be subject to the Notification and Excess Energy Charge provisions set forth in subsection a, above.

(ii) Control Equipment Pending Installation. For a Sub-transmission customer whose load can not be dropped by SCE's existing control equipment, the customer must request the installation of such equipment at the customer's expense in accordance with SCE's Rule 2, Section H, Added Facilities. Pending the installation of the control equipment, the customer will be responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy Charge provisions.

c. Non-compliance: A non-exempt Sub-transmission customer subject to subsection a, above, who fails to drop load during three rotating outages in a three year period to a demand level of 20% or less of the customer's prior billing month's recorded Maximum Demand averaged over the applicable rotating outage period, is not in compliance with this tariff. The three year period shall commence with the first failure to drop load as specified in this subsection. A customer not in compliance with this condition will be placed at the top of the Sub-transmission customer rotating outage group list and will be expected to comply with subsequent applicable rotating outages. In addition, the customer must select one of the two options below within fifteen days after receiving written notice of non-compliance from SCE. A customer failing to make a selection within the specified time frame will be subject to subsection c. (ii) below. (T)

(i) Subject to Schedule OBMC: The customer shall submit an OBMC Plan, in accordance with Schedule OBMC, within 30 calendar days of receiving written notice of non-compliance from SCE. Pending the submittal of the OBMC Plan by the customer and pending the review and acceptance of the OBMC Plan by SCE, the customer will remain responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy charge provisions. If the customer fails to submit an OBMC Plan within 30 days of receiving notice of non-compliance from SCE, or if the customer's OBMC Plan is not approved by SCE, or if the customer fails to meet the requirements of Schedule OBMC once the OBMC Plan is approved, the customer shall be subject subsection c. (ii), below.

(Continued)

Schedule TOU-8 Sheet 16
TIME-OF-USE - GENERAL SERVICE - LARGE

(Continued)

SPECIAL CONDITIONS (Continued)

22. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued)

c. Non-compliance: (Continued)

(ii) Installation of Control Equipment. The customer shall be subject to the installation of control equipment at the customer's expense in accordance with SCE's Rule 2, Section H, Added Facilities, if such equipment is not currently installed. If such switching capability is installed, SCE will drop the customer's load for all applicable subsequent rotating outages in accordance with the provisions of subsection b, above. Pending the installation of control equipment, the customer will remain responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy Charge provisions.

d. Net-Generators (N)

Sub-transmission customers who are also net-generators are normally exempt from rotating outages, but they must be net suppliers of power to the grid during all rotating outages. For the purpose of this Special Condition, a net-generator is an SCE customer who operates an electric generating facility as part of its industrial or commercial process, and the generating facility normally produces more electrical power than is consumed in the industrial or commercial process, with the excess power supplied to the grid. Sub-transmission customers whose primary business purpose is to generate power are not included in this Special Condition.

(i) Notification of Rotating Outages. SCE will notify sub-transmission customers who are net-generators of all rotating outages applicable to customers within SCE's service territory. Within 30 minutes of notification, the customer must ensure it is a net supplier of power to the grid throughout the entire rotating outage period. Failure to do so will result in the customer losing its exemption from rotating outages, and the customer will be subject to Excess Energy Charges, as provided below.

(ii) Excess Energy Charges. Net generators who are not net suppliers to the grid during each rotating outage period will be subject to Excess Energy Charges of $6 per kWh for all kWh usage in excess of the Authorized Residual Ancillary Load. Such charges will be based on the total kWh usage during a rotating outage penalty period, less the product of Authorized Residual Ancillary Load in kW and the applicable rotating outage period hours. Excess Energy Charges will be determined and applied by SCE subsequent to the customer's regularly scheduled meter read date following the applicable (N) rotating outage. Excess Energy Charges shall not apply during periods of (L) verifiable scheduled generator maintenance or if the customer's generator suffers a verifiable forced outage. The scheduled maintenance must be approved in advance by either the ISO or SCE, but approval may not be (T) unreasonably withheld. (L)

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE

CONTENTS: This rate schedule is divided into the following sections:

1. Applicability
2. Territory
3. Firm Service Rates
4. Definition Of Service Voltage
5. Definition Of Time Periods
6. Power Factor Adjustments
7. Charges For Transformer and Line Losses
8. Standard Service Facilities
9. Special Facilities
10. Arrangements For Visual-Display Metering
11. Non-Firm Service Program
12. Non-Firm Service Rates
13. Common-Area Accounts
14. Contracts
15. Voluntary Service Provisions
16. Billing
17. Fixed Transition Amount (T)
18. CARE Discount for Nonprofit Group-Living Facilities
19. Optional Optimal Billing Period Service
20. Electric Emergency Plan Rotating Block Outages
21. Standby Applicability
22. Department of Water Resources Bond Charge (T) (T)

1. APPLICABILITY: **Initial Assignment:** A customer must take service under Schedule E-19 if: (1) the customer's load does not meet the Schedule E-20 requirements, but, (2) the customer's maximum billing demand (as defined below) has exceeded 499 kilowatts for at least three consecutive months during the most recent 12-month period (referred to as Schedule E-19). If 70 percent or more of the customer's energy use is for agricultural end-uses, the customer will be served under an agricultural schedule. Schedule E-19 is not applicable to customers for whom residential service would apply, (see except for single-phase and polyphase service in common areas in a multifamily complex (see Common-Area Accounts section).

Customer accounts which fail to qualify under these requirements will be evaluated for transfer to service under a different applicable rate schedule.

Customers who also request any meter data management services, must also sign an Interval Meter Data Management Service Agreement (Form 79-985) and must have an appropriate interval data meter. If the customer does not currently have this type of meter, the customer must pay PG&E for the cost of purchasing and installing an hourly interval meter, together with applicable Income Tax Component of Contribution (ITCC) charges and the cost to operate and maintain the interval meter, and must sign an Interval Meter Installation Service Agreement (Form 79-984).

The provisions of Schedule S—Standby Service Special Conditions 1 through 6 shall also apply to customers whose premises are regularly supplied in part (but not in whole) by electric energy from a nonutility source of supply. These customers will pay monthly reservation charges as specified under Section 1 of Schedule S, in addition to all applicable Schedule E-19 charges. Exemptions to standby charges are outlined in the Standby Applicability Section of this rate schedule. (T)

Voluntary E-19 Service: This schedule is available on a voluntary basis for customers with maximum billing demands less than 500 kW. Customers voluntarily taking service on this schedule are subject to all the terms and conditions below, unless otherwise specified in Section 15.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

1. APPLICABILITY: (Cont'd.)

Standby Demand: For customers for whom Schedule S—Standby Service Special Conditions 1 through 6 apply, standby demand is the portion of a customer's maximum demand in any month caused by nonoperation of the customer's alternate source of power, and for which a demand charge is paid under the regular service schedule.

If the customer imposes standby demand in any month, then the regular service maximum demand charge will be reduced by the applicable reservation capacity charge (see Schedule S Special Condition 1).

To qualify for the above reduction in the maximum demand charge, the customer must, within 30 days of the regular meter-read date, demonstrate to the satisfaction of PG&E the amount of standby demand in any month. This may be done by submitting to PG&E a completed Electric Standby Service Log Sheet (Form 79-726).

2. TERRITORY: This rate schedule applies everywhere PG&E provides electricity service.

3. FIRM SERVICE RATES: Total bundled service charges are calculated using the total rates shown below. Direct access charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing. (N)

Customers that received the benefit of the 10 percent rate reduction prior to January 1, 2004, and who pay the Fixed Transition Amount (FTA), shall be subject to the rates set forth in Table A, which include the FTA charge and the Rate Reduction Bond Memorandum Account (RRBMA) credit. All other firm service customers taking service under this rate schedule shall be subject to the rates set forth in Table B. (N)

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND METERED TIME-OF-USE SERVICE
(Continued)

3. Firm Service Rates: (Cont'd.)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND METERED TIME-OF-USE SERVICE
(Continued)

3. Firm Service Rates: (Cont'd.)

TABLE A (FTA Rates) (Cont'd.)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Energy Charges by Components ($ per kWh)	Secondary Voltage	Primary Voltage	Transmission Voltage	
Generation:				
Peak Summer	$0.11131	$0.09452	$0.09715	
Part-Peak Summer	$0.05593	$0.05064	$0.05634	
Off-Peak Summer	$0.04354	$0.04275	$0.04805	
Part-Peak Winter	$0.06045	$0.05753	$0.06823	
Off-Peak Winter	$0.04338	$0.04359	$0.05192	
Distribution:**				
Peak Summer	$0.00912	$0.00288	$0.00933	
Part-Peak Summer	$0.00603	$0.00224	$0.00708	
Off-Peak Summer	$0.00526	$0.00217	$0.00665	
Part-Peak Winter	$0.00664	$0.00263	$0.00873	
Off-Peak Winter	$0.00523	$0.00219	$0.00718	
Transmission Rates Adjustments* (all usage)	($0.00007)	($0.00007)	($0.00007)	
Public Purpose Programs (all usage)	$0.00472	$0.00433	$0.00447	
Nuclear Decommissioning (all usage)	$0.00035	$0.00035	$0.00035	
Competition Transition Charge (all usage)	$0.00448	$0.00448	$0.00448	
				(D)
Energy Cost Recovery Amount (all usage)	$0.00534	$0.00534	$0.00534	(N)
Fixed Transition Amount (all usage)	$0.00805	$0.00805	$0.00805	
Rate Reduction Bond Memorandum Account** (all usage)	($0.00166)	($0.00166)	($0.00166)	
DWR Bond (all usage)	$0.00493	$0.00493	$0.00493	

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

** Distribution and RRBMA charges are combined for presentation on customer bills.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

3. FIRM SERVICE RATES: (Cont'd.)

Table B (Non-FTA Rates)

TOTAL RATES

Total Customer/Meter Charge Rates	Secondary Voltage	Primary Voltage	Transmission Voltage
Customer Charge Mandatory E-19 ($ per meter per day)	$5.74949	$4.59959	$20.04107
Customer Charge Rate V ($ per meter per day)	$2.66119	$2.66119	$2.66119
Customer Charge Rate W ($ per meter per day)	$2.50349	$2.50349	$2.50349
Customer Charge Rate X ($ per meter per day)	$2.66119	$2.66119	$2.66119
One-time TOU Installation Charge ($ per meter)	$443.00	$443.00	$443.00
One-time TOU Processing Charge ($ per meter)	$87.00	$87.00	$87.00
Optional Optimal Billing Period Service ($ per meter per month)	$130.00	$130.00	–
Optional Meter Data Access Charge ($ per meter per day)	$0.98563	$0.98563	$0.98563
Total Demand Rates ($ per kW)			
Maximum Peak Demand Summer	$13.51	$11.74	$7.26
Maximum Part-Peak Demand Summer	$3.75	$2.64	$0.58
Maximum Demand Summer	$3.18	$3.15	$0.87
Maximum Part-Peak Demand Winter	$3.69	$2.64	$0.73
Maximum Demand Winter	$3.18	$3.15	$0.87
Total Energy Rates ($ per kWh)			
Peak Summer	$0.15657 (R)	$0.13071 (R)	$0.14229 (R)
Part-Peak Summer	$0.09524 |	$0.08484 |	$0.09720 |
Off-Peak Summer	$0.08134 |	$0.07669 |	$0.08809 |
Part-Peak Winter	$0.10092 |	$0.09292 |	$0.11222 |
Off-Peak Winter	$0.08114 (R)	$0.07765 (R)	$0.09297 (R)
Average Rate Limiter ($/kWh in summer months)	$0.14043	$0.14043	–
Peak Period Rate Limiter ($/kWh in summer months)	$0.97773	$0.84937	$0.58676

Total bundled service charges shown on customers' bills are unbundled according to the component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer and meter charge rates provided in the Total Rate section above are assigned entirely to the unbundled distribution component.

Demand Rates by Component ($ per kW)			
Generation:			
Maximum Peak Demand Summer	$6.72	$7.85	$7.26
Maximum Part-Peak Demand Summer	$1.86	$1.77	$0.58
Maximum Demand Summer	($3.10)	($2.33)	($3.55)
Maximum Part-Peak Demand Winter	$1.84	$1.77	$0.73
Maximum Demand Winter	($3.10)	($2.33)	($3.55)
Distribution:			
Maximum Peak Demand Summer	$6.79	$3.89	$0.00
Maximum Part-Peak Demand Summer	$1.89	$0.87	$0.00
Maximum Demand Summer	$1.94	$1.14	$0.08
Maximum Part-Peak Demand Winter	$1.85	$0.87	$0.00
Maximum Demand Winter	$1.94	$1.14	$0.08
Transmission Maximum Demand*	$2.32	$2.32	$2.32
Reliability Services Maximum Demand*	$2.02	$2.02	$2.02

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

3. FIRM SERVICE RATES: (Cont'd.)

Table B (Non-FTA Rates) (Cont'd.)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Energy Rates by Component ($ per kWh)	Secondary Voltage	Primary Voltage	Transmission Voltage	
Generation:				
Peak Summer	$0.12770	$0.10847	$0.11346	
Part-Peak Summer	$0.06946	$0.06324	$0.07062	
Off-Peak Summer	$0.05633	$0.05516	$0.06194	
Part-Peak Winter	$0.07453	$0.07093	$0.08399	
Off-Peak Winter	$0.05616	$0.05610	$0.06629	
Distribution:				
Peak Summer	$0.00912	$0.00288	$0.00933	
Part-Peak Summer	$0.00603	$0.00224	$0.00708	
Off-Peak Summer	$0.00526	$0.00217	$0.00665	
Part-Peak Winter	$0.00664	$0.00263	$0.00873	
Off-Peak Winter	$0.00523	$0.00219	$0.00718	
Transmission Rate Adjustments* (all usage)	($0.00007)	($0.00007)	($0.00007)	
Public Purpose Programs (all usage)	$0.00472	$0.00433	$0.00447	
Nuclear Decommissioning (all usage)	$0.00035	$0.00035	$0.00035	
Competition Transition Charge (all usage)	$0.00448	$0.00448	$0.00448	(D)
Energy Cost Recovery Amount (all usage)	$0.00534	$0.00534	$0.00534	(N)
DWR Bond (all usage)	$0.00493	$0.00493	$0.00493	

* Transmission, Transmission Rate Adjustments, and Reliability Service charges are combined for presentation on customer bills.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

3. FIRM SERVICE RATES: (Cont'd.) (D)

a. TYPES OF CHARGES: The customer's monthly charge for service under Schedule E-19 is the sum of a customer charge, demand charges, and energy charges:

- The **customer charge** is a flat monthly fee.
- This schedule has three **demand charges,** a maximum-peak-period-demand charge, a maximum part-peak-period and a maximum-demand charge. The maximum-peak-period-demand charge per kilowatt applies to the maximum demand during the month's peak hours, the maximum part-peak-period demand charge applies to the maximum demand during the month's part-peak hours, and the maximum demand charge per kilowatt applies to the maximum demand at any time during the month. The bill will include all of these demand charges. (Time periods are defined in Section 5.)
- The **energy charge** is the sum of the energy charges from the peak, partial-peak, and off-peak periods. The customer pays for energy by the kilowatt-hour (kWh), and rates are differentiated according to time of day and time of year.
- If applicable, all **Installation** or **Processing Charges** must be paid in one lump sum before the customer can take service under this rate schedule. Payments for these charges are not transferable to another service or refundable, in whole or part. PG&E will place the account on this schedule within four weeks of receiving payment from the customer. The meters required for this schedule may become obsolete as a result of electric industry restructuring or other action by the California Public Utilities Commission. Therefore, any and all risks of paying the required charges and not receiving commensurate benefit are entirely that of the customer.
- The monthly charges may be increased or decreased based upon the power factor. (See Section 6.)
- As shown on the rate chart, which set of customer, demand, and energy charges is paid depends on the level of the customers maximum demand and the voltage at which service is taken. Service voltages are defined in Section 4 below.
- Please note that the rates in the table above apply only to firm service. Rates for non-firm service can be found in Section 12 of this rate schedule. (T)

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

3. FIRM SERVICE RATES: (Cont'd.)

b. AVERAGE RATE LIMITER (applies to bundled, firm service only): If the customer takes service on Schedule E-19 in either the secondary or primary voltage class, bills will be controlled by a "rate limiter" during the summer months. The bill will be reduced if necessary so that the average rate paid for all demand and energy charges less the Energy Rate Adjustment (ERA) amount calculated using the applicable rates provided in Schedule E-ERA during a summer month does not exceed the average rate limiter shown on this Schedule. This provision will not apply if the customer has elected to receive separate billing for back-up and maintenance service under Special Condition 8 of Schedule S. (T) (T)

Reductions in revenue resulting from application of the average rate limiter will be reflected as reduced distribution amounts for billing purposes.

c. PEAK-PERIOD RATE LIMITER (applies to bundled, firm service only): If the customer takes service on Schedule E-19 at any service voltage level, bills will be controlled by a "peak-period rate limiter" during the summer months. The bill will be reduced if necessary so that the average rate paid for all on-peak demand and energy charges less the peak period ERA amount calculated using the applicable rates provided in Schedule E-ERA during the peak period in a summer month does not exceed the peak-period rate limiter shown on this schedule. This provision will not apply if the customer has elected to receive separate billing for back-up and maintenance service under Special Condition 8 of Schedule S. (T) (T)

Reductions in revenue resulting from application of the peak-period rate limiter will be reflected as reduced distribution amounts for billing purposes.

4. DEFINITION OF SERVICE VOLTAGE:

The following defines the three voltage classes of Schedule E-19 rates. Standard Service Voltages are listed in Rule 2, Section B.1.

a. Secondary: This is the voltage class if the service voltage is less than 2,400 volts or if the definitions of "primary" and "transmission" do not apply to the service.

b. Primary: This is the voltage class if the customer is served from a "single customer substation" or without transformation from PG&E's serving distribution system at one of the standard primary voltages specified in PG&E's Electric Rule 2, Section B.1.

c. Transmission: This is the voltage class if the customer is served without transformation from PG&E's serving transmission system at one of the standard transmission voltages specified in PG&E's Rule 2, Section B.1.

5. DEFINITION OF TIME PERIODS:

Times of the year and times of the day are defined as follows:

SUMMER Period A (Service from May 1 through October 31):

Peak:	12:00 noon. to 6:00 p.m.	Monday through Friday (except holidays).
Partial-peak:	8:30 a.m. to 12:00 noon AND 6:00 p.m. to 9:30 p.m. Monday through Friday (except holidays).	
Off-peak:	9:30 p.m. to 8:30 a.m.	Monday through Friday
	All day	Saturday, Sunday, and holidays

(Continued)

Pacific Gas and Electric Company
San Francisco, California

Revised	Cal. P.U.C. Sheet No.	22208-E
Cancelling Revised	Cal. P.U.C. Sheet No.	20723-E

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(Continued)

5. DEFINITION OF TIME PERIODS: (Cont'd.)

WINTER	Period B (service from November 1 through April 30):	
Partial-Peak:	8:30 a.m. to 9:30 p.m.	Monday through Friday (except holidays).
Off-Peak:	9:30 p.m. to 8:30 a.m.	Monday through Friday (except holidays).
	All day	Saturday, Sunday, and holidays

HOLIDAYS: "Holidays" for the purposes of this rate schedule are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, and Christmas Day. The dates will be those on which the holidays are legally observed.

CHANGE FROM SUMMER TO WINTER OR WINTER TO SUMMER: When a billing month includes both summer and winter days, PG&E will calculate demand charges as follows. It will consider the applicable maximum demands for the summer and winter portions of the billing month separately, calculate a demand charge for each, and then apply the two according to the number of billing days each represents.

6. POWER FACTOR ADJUST-MENTS:

Bills will be adjusted based on the power factor for all customers except those selecting voluntary E-19 service. The power factor is computed from the ratio of lagging reactive kilovolt-ampere-hours to the kilowatt-hours consumed in the month. Power factors are rounded to the nearest whole percent.

The rates in this rate schedule are based on a power factor of 85 percent. If the average power factor is greater than 85 percent, the total monthly bill will be reduced by 0.06 percent of the bundled service bill less any taxes and the ERA amount calculated (T)
using applicable rates provided in Schedule E-ERA for each percentage point above (T)
85 percent. If the average power factor is below 85 percent, the total monthly bill of the bundled service bill less any taxes and the ERA amount calculated using applicable (T)
rates provided in Schedule E-ERA will be increased by 0.06 percent for each (T)
percentage point below 85 percent.

Power factor adjustments will be assigned to distribution for billing purposes.

7. CHARGES FOR TRANS-FORMER AND LINE LOSSES:

The demand and energy meter readings used in determining the charges will be adjusted to correct for transformation and line losses in accordance with Section B.4 of Rule 2.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

8. STANDARD SERVICE FACILITIES:

If PG&E must install any new or additional facilities to provide the customer with service under this schedule the customer may have to pay some of the cost. Any advance necessary and any monthly charge for the facilities will be specified in a line extension agreement. See Rules 2, 15, and 16 for details. This section does not apply to customers voluntarily taking service under Schedule E-19.

Facilities installed to serve the customer may be removed when service is discontinued. The customer will then have to repay PG&E for all or some of its investment in the facilities. Terms and conditions for repayment will be set forth in the line extension agreement.

9. SPECIAL FACILITIES:

PG&E will normally install only those standard facilities it deems necessary to provide service under this schedule. If the customer requests any additional facilities, those facilities will be treated as "special facilities" in accordance with Section I of Rule 2.

10. ARRANGEMENTS FOR VISUAL-DISPLAY METERING:

If the customer wishes to have visual-display metering equipment in addition to the regular metering equipment, and the customer would like PG&E to install that equipment, the customer must submit a written request to PG&E. PG&E will provide and install the equipment within 180 days of receiving the request. The visual-display metering equipment will be installed near the present metering equipment. The customer will be responsible for providing the required space and associated wiring.

PG&E will continue to use the regular metering equipment for billing purposes.

11. NON-FIRM SERVICE PROGRAM:

As noted, the rates in the chart in Section 3 of this rate schedule apply to firm service only. ("Firm" means service where PG&E provides a "continuous and sufficient supply of electricity," as described in Rule 14.) A customer may also elect to receive non-firm service under Schedule E-19. Non-firm service is not available to customers taking service under Schedule E-19 on a voluntary basis.

In accordance with Decision 01-04-006, the Non-firm Service Program is closed to new or existing customers that are not currently in the program. Existing contracts may not be assigned to other parties. Customers considering participating in an interruptible program should refer to Schedule E-BIP for program terms and conditions, or may consider other available interruptible or demand response programs. The customer's total load must meet the eligibility criteria in 11.a in order to participate in the Non-firm Service Program. Customers being served, as of December 31, 1992, under the Non-firm Service Program may continue to participate in the Non-firm Service Program.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.) (D) (D)

This program is available for qualifying customers until modified or terminated in the rate design phase of the next general rate case or similar proceeding as ordered in Decision 02-04-060. (N) (N)

A customer who elects to receive non-firm service under Schedule E-19 must participate in PG&E's Emergency Curtailment Program. A non-firm service customer may also elect to participate in PG&E's Underfrequency Relay (UFR) program.

EMERGENCY CURTAILMENT PROGRAM: Under the Emergency Curtailment Program, a non-firm service customer may be requested to reduce demand to a designated number of kilowatts, referred to as the customer's contractual "firm service level." PG&E will make requests for such curtailments from its non-firm service customers upon notification from the California Independent System Operator (ISO) that a system-wide or local operating condition exists which will impair the ability of the ISO to meet the demands of PG&E's other customers. The ISO is expected to issue load curtailment directives to PG&E in those instances where load reductions are necessary in order to maintain system-wide operating reserves above the 5 percent level throughout the next operating hour, or if such load reductions are the sole remaining measure available in order to mitigate transmission overloads in the PG&E area.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.)

UNDERFREQUENCY RELAY PROGRAM: Under this program, the customer agrees to be subject at all times to automatic interruptions of service caused by an underfrequency relay device that may be installed by PG&E.

See Section 13 of this rate schedule for a discussion of contractual length-of-service requirements that may be applied to customers enrolling in the Non-firm Service Program. Please note that PG&E may require up to three years' written notice for a change from non-firm to firm service, or for termination of participation in the Underfrequency Relay Program.

a. ELIGIBILITY CRITERIA FOR NON-FIRM SERVICE: To qualify for non-firm service, the customer must have had an average peak-period demand of at least 500 kilowatts during each of the last six summer billing months prior to the customer's application for non-firm service. (Average peak-period demand is the total number of kWh used during the peak-period hours of a billing month divided by the total number of peak-period hours in the month.) Customers who have not yet had six months of summer service must demonstrate to PG&E's satisfaction that they will maintain an average monthly-peak-period demand of 500 kW or more to qualify for non-firm service.

Customers on non-firm service may not have, or obtain, any insurance for the sole purpose of paying non-compliance penalties for willful failure to comply with requests for curtailments. Customers with such policy will be terminated from the Program, and will be required to pay back any incentives that the customer received for the period covered by the insurance. If the period cannot be determined, the recovery shall be for the entire period the customer was on the program. (N) (N)

Customers who are deemed essential under the Electric Emergency Plan as adopted in Decision 01-04-006 and Rulemaking 00-10-002, must submit to PG&E a written declaration that states that the customer is, to the best of that customer's understanding, an essential customer under Commission rules and exempt from rotating outages. It must also state that the customer voluntarily elects to participate in an interruptible program for part of its load based on adequate backup generation or other means to interrupt load upon request by the respondent utility, while continuing to meet its essential needs. In addition, an essential customer may commit no more than 50% of its average peak load to interruptible programs. (N) (N)

(L) (L)

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.)

b. DESIGNATION OF FIRM SERVICE LEVEL: If a customer takes non-firm service, the designated number of kilowatts to which the customer must reduce demand during emergency curtailments is the customer's contractual "firm service level." This designated firm service level must be at least 500 kilowatts less than the smallest of the customer's average peak-period demands during the last six summer billing months prior to the designation.

c. PRE-EMERGENCY CURTAILMENT REQUIREMENTS: A customer may be requested to curtail, on a pre-emergency basis, up to a maximum of two times per year (except that emergency curtailments will count towards the maximum). Each pre-emergency curtailment will last no more than five hours. Customers will be given at least 30 minutes notice before each curtailment. The pre-emergency curtailments will be requested subject to the criteria listed in Section 11.d below, and PG&E's discretion.

d. PRE-EMERGENCY CURTAILMENT PROCEDURE: PG&E will notify the customer by telephone, electronic mail, or other reliable means of communication. This notification will designate the time by which the customer's kW demand is requested to reduce to the customer's contractual firm service level. The notification will also designate the time when the customer may resume use of full power.

PG&E may call a pre-emergency curtailment if one of the following criteria are met:

1) The 9:00 a.m. forecast of temperatures in the Central Valley (the average of the forecasted temperature in Fresno and Sacramento) exceeds 100 degrees Fahrenheit; and PG&E has been informed by the ISO that an adjusted 10:00 a.m. forecast of two-hour reserves for that afternoon's peak is 12 percent or less; or

2) The 9:00 a.m. forecast of temperatures in the Central Valley exceeds 105 degrees Fahrenheit.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.)

e. EMERGENCY CURTAILMENT PROCEDURE: When it becomes necessary for PG&E to request a curtailment, PG&E will notify the customer by telephone, electronic mail, or other reliable means of communication. This notification will designate the time by which the customer's kW demand is requested to be reduced to the customer's contractual firm service level.

The customer is requested to not resume the use of curtailed power until notified by PG&E that it may do so or until the customer has curtailed its service for six hours.

f. LIMIT ON EMERGENCY CURTAILMENTS: A customer will be requested to curtail demand, under the emergency curtailment program, no more than one time per day, four times per week, 40 hours per month, and 30 times per year. The customer will be given at least 30 minutes notice before each curtailment. Curtailments will not exceed six hours for any individual interruption or 100 hours for the entire year.

g. EMERGENCY-NOTICE PROVISION: If there is an emergency on the PG&E system, PG&E may ask the customer to curtail the use of electricity on less than the 30 minutes notice allowed for the Non-firm Service Option. The customer will be asked to make its best effort to comply. The customer will not be assessed the noncompliance penalty for failing to comply within the shorter notice period.

The customer will be assessed a noncompliance penalty if the regular notice period for the operation passes and the customer still has not curtailed use.

(D)

Noncompliance penalties for the period October 1, 2000, to January 25, 2001, that were held in the interruptible Load Curtailment Penalty Memorandum Account (ILCPMA) in accordance with CPUC Decision 01-01-056 will be collected in accordance with Decision 02-04-060. Customers will have a one-time opportunity to elect to increase their firm service level in whole or part from November 1, 2000, through April 30, 2001, and pay the appropriate firm service level during this period. For customers adjusting their firm service level during this period, penalties based on non-compliance with the adjusted firm service level shall be collected. The election to opt-out in part or whole will not affect the service the customer received, and the bills due, on and after May 1, 2001, nor does it change the customer's decision in November 2001 to have remained in or opted-out of the interruptible program. (N)

Curtailment events during the memorandum account period (October 1, 2000, through January 25, 2001) do not count toward the tolling of compliance for determining the level of non-compliance penalties during the subsequent year. (N)

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.)

h. NONCOMPLIANCE PENALTY: Effective January 26, 2001, and going forward all applicable noncompliance penalties are suspended in accordance with CPUC Decision 01-01-056. In addition, customers will not be billed for noncompliance penalties incurred during the period October 1, 2000, to January 25, 2001. Noncompliance penalties incurred for the period October 1, 2000, to January 25, 2001, will be calculated and tracked in the Interruptible Load Curtailment Penalty Memorandum Account (ILCPMA). (N)

Prior to October 1, 2000, if PG&E requests that a non-firm service customer curtail the use of electricity and the customer fails to do so by the time specified, the customer must pay a noncompliance penalty. This penalty will be payable in addition to the regular charges. (T)

The penalty will be calculated by determining the total amount of excess energy taken during the curtailment period (energy taken in excess of the customer's firm service level times the duration of the curtailment) and multiplying this total by the noncompliance penalty (per kWh).

The applicable noncompliance penalties are listed in Section 12. If a customer has curtailed to or below the designated firm service level for all of the requested pre-emergency and emergency curtailments, if any, in the preceding calendar year, the noncompliance penalty for the current year, will be the lower level shown in Section 12.

During 1992 or until such time as PG&E calls either a pre-emergency or emergency curtailment after June 1, 1992, the noncompliance penalty will be the higher noncompliance penalty shown in Section 12. No reduced noncompliance penalties are available in 1992.

Once a customer has complied with all the requested curtailments during the previous year, the customer's noncompliance penalty will remain at the reduced penalty level shown in Section 12 for the next calendar year. If the customer fails to comply with a requested curtailment, the noncompliance penalty for the following year will be the higher value shown in Section 12.

If no emergency or pre-emergency curtailments are called during a given year, the customer's noncompliance penalty for the next year in which curtailments occur shall be based on the customer's level of compliance during the last year curtailments were called. New non-firm customers will be assessed the higher noncompliance penalty during their first year on the program.

During the year, PG&E will record any energy taken in excess of the customer's firm service level during any emergency or pre-emergency curtailments. PG&E will notify the customer of the amount of excess energy taken and the estimated noncompliance penalty. PG&E shall assess the noncompliance penalties, subject to the noncompliance penalty limit described below, at the end of the calendar year. The customer's noncompliance penalty shall be equal to the appropriate noncompliance penalty shown in Section 12 times the total amount of excess energy taken during any pre-emergency and emergency curtailments.

In any given calendar year, the noncompliance penalties may not exceed 200 percent of the annual incentive level. The noncompliance penalty limit is equal to twice the annual incentive paid (the difference between what the customer would have paid on firm service rates less the customer's bill on non-firm rates excluding any noncompliance penalties). If a customer's total noncompliance penalties in any given year exceed the noncompliance penalty limit, PG&E shall bill the customer a noncompliance penalty equal to the noncompliance penalty limit.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.)

i. ADDITIONAL NON-FIRM SERVICE PROVISIONS:

1) **Required Re-Designations of Firm Service Level**: A non-firm service customer must maintain a difference of at least 500 kW between the firm service level and the average monthly summer peak-period demand. If the difference is less than 500 kW for any three summer months during any 12-month period, the customer must designate a new firm service level. This new firm service level must be at least 500 kW below the lowest of the customer's average peak-period demands for the last six summer billing months preceding the new designation. If the customer cannot meet this requirement, PG&E will change the account to firm service.

2) **Optional Re-Designations of Firm Service Level:** A non-firm service customer may decrease the firm service level effective with the start of any billing month, provided the customer gives PG&E at least 30 days' written notice. The customer may increase the firm service level (or return to firm service) only with PG&E's permission or by giving such notice to PG&E during a one-month period following any revisions of the program operating criteria initiated by the ISO, or during an annual contract review period that is provided for between November 1 and December 1 each year. The increased firm service level must be such that there is still at least a 500 kW difference between the firm service level and the lowest average monthly summer peak-period demand. The increased firm service level will become effective with the first regular reading of the meter after the customer receives permission from PG&E or at the end of the three year notice period. If a customer elects to change to firm service, it will not be permitted to subsequently return to non-firm status in the future. (T) (T) (T) (T)

3) **Telephone Line Requirements:** Non-firm customers are required to make available a telephone line and space for a notification printer. This requirement is in addition to any other equipment requirement which may apply.

j. BILL REDUCTIONS FOR NON-FIRM SERVICE CUSTOMERS:

1) **Demand Charges:** Reduced peak-period demand charges for curtailable service shall be applied to the difference between the customer's maximum demand in the peak-period and its Firm Service Level (but not less than zero). The peak-period charges for firm service shall be applied to the peak-period demand less the above difference.

2) **Energy Charges:** Reduced energy charges for curtailable service shall be applied to (a-b), where (a) is the number of kilowatt-hours used in the time period and (b) is the product of the Firm Service Level and the number of hours in the time period. (a-b) shall not be less than zero.

(Continued)

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SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.)

k. PROVISIONS SPECIFIC TO UFR PROGRAM: (L)

1) **Details on Automatic Interruptions:** If a customer is participating in the UFR program, service to the customer will be automatically interrupted if the frequency on the PG&E system drops to 59.65 hertz for 20 cycles. PG&E will install and maintain a digital underfrequency relay and whatever associated equipment it believes is necessary to carry out such automatic interruption. Relays and other equipment will remain the property of PG&E. If more than one relay is required, PG&E will provide the additional relays as "special facilities," at customer's expense, in accordance with Section I of Rule 2.

In addition to the underfrequency relay, PG&E may install equipment that would automatically interrupt service in case of voltage reductions or other operating conditions.

2) **Metering Requirements for UFR Program:** If a customer is participating in the UFR program under Schedule E-19 in combination with firm or curtailable-only service, the customer will be required to have a separate meter for the UFR service. PG&E will provide the meter sets, but the customer will be responsible for arranging customer's wiring in such a way that the service for each account can be provided and metered at a single point. NOTE: Any other additional facilities required for a combination of curtailable with firm service will be treated as "special facilities" in accordance with Section I of Rule 2.

3) **Communication Channel for UFR Service:** UFR program customers are required to provide an exclusive communication channel from the PG&E-provided terminal block at the customer's facility to a PG&E-designated control center. The communication channel must meet PG&E's

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

11. NON-FIRM SERVICE PROGRAM: (Cont'd.)

I. INTERACTIONS WITH OTHER DEMAND RESPONSE PROGRAMS: (N)

1. Customers who participate in a third-party sponsored interruptible load program must immediately notify PG&E of such activity.

2. Participants in the non-firm program may also participate in the Demand Bidding Program (Schedule E-DBP), but will not be paid the energy reduction incentives under the Schedule E-DBP during those hours where a non-firm event is issued.

3. Participants in the non-firm program may participate in the Optional Binding Mandatory Curtailment Program (Schedule E-OBMC) and the Pilot Optional Binding Mandatory Curtailment Program (Schedule E-POBMC) subject to meeting all applicable eligibility, operational and participation requirements specified in those schedules.

4. Participants in the non-firm program may participate in the California Power Authority Demand Reserves Partnership (CPA-DRP) program provided the additional load committed to the CPA-DRP is below their Firm Service Level (FSL) under the non-firm program.

5. Participants on the non-firm program shall not participate in the Scheduled Load Reduction Program (Schedule E-SLRP), or the Critical Peak Pricing Program (Schedule E-CPP) while on the non-firm program. Participants on the non-firm program may participate in the Base Interruptible Program (Schedule E-BIP) only after they have completed their annual obligations under the non-firm program.

6. Participants in the non-firm program may participate in the California Power Authority Supplemental Energy Market program but will not be paid for curtailments under the California Power Authority's program during those hours when a non-firm event is issued. (N)

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

12. NON-FIRM SERVICE RATES: These rates are applicable if the customer elects to take non-firm service. See Section 11 for an explanation of the non-firm service program and eligibility criteria.

Total bundled service charges for non-firm service are calculated using the total rates shown below. Direct Access (DA) and Community Choice Aggregation (CCA) charges shall be calculated in accordance with the paragraph in this rate schedule titled Billing.

TOTAL RATES

Total Customer/Meter Charge Rates	Secondary Voltage	Primary Voltage	Transmission Voltage
Nonfirm Customer Charge ($ per meter per day)	$11.99179	$10.84189	$26.28337
Nonfirm w/UFR Customer Charge ($ per meter per day)	$12.32033	$11.17043	$26.61191
Optional Meter Data Access Charge ($ per meter per day)	$ 0.98563	$ 0.98563	$ 0.98563
Total Demand Rates ($ per kW)			
Maximum Peak Demand Summer	$6.01	$4.24	($0.24)
Maximum Part-Peak Demand Summer	$3.25	$2.14	$0.08
Maximum Demand Summer	$3.18	$3.15	$0.87
Maximum Part-Peak Demand Winter	$3.19	$2.14	$0.23
Maximum Demand Winter	$3.18	$3.15	$0.87
Total Energy Rates ($ per kWh)			
Peak Summer	$0.14410 (R)	$0.11824 (R)	$0.12982 (R)
Part-Peak Summer	$0.09392 |	$0.08352 |	$0.09588 |
Off-Peak Summer	$0.08002 |	$0.07537 |	$0.08677 |
Part-Peak Winter	$0.09960 |	$0.09160 |	$0.11090 |
Off-Peak Winter	$0.07982 (R)	$0.07633 (R)	$0.09165 (R)
Noncompliance Penalty ($ per kWh per event)	$8.40	$8.40	$8.40
Noncompliance Penalty ($ per kWh per event) (For customers who fully complied with the previous years operation)	$4.20	$4.20	$4.20
UFR Credit ($ per kWh, if applicable)	$0.00091	$0.00091	$0.00091

Total bundled service charges shown on customers' bills are unbundled according to the component rates shown below.

UNBUNDLING OF TOTAL RATES

Customer/Meter Charge Rates: Customer and meter charge rates provided in the Total Rates section above are assigned entirely to the unbundled distribution component.

Demand Rate by Component ($ per kW)			
Generation:			
Maximum Peak Demand Summer	$6.72	$7.85	$7.26
Maximum Part-Peak Demand Summer	$1.86	$1.77	$0.58
Maximum Demand Summer	($3.10)	($2.33)	($3.55)
Maximum Part-Peak Demand Winter	$1.84	$1.77	$0.73
Maximum Demand Winter	($3.10)	($2.33)	($3.55)
Distribution:			
Maximum Peak Demand Summer	($0.71)	($3.61)	($7.50)
Maximum Part-Peak Demand Summer	$1.39	$0.37	($0.50)
Maximum Demand Summer	$1.94	$1.14	$0.08
Maximum Part-Peak Demand Winter	$1.35	$0.37	($0.50)
Maximum Demand Winter	$1.94	$1.14	$0.08
Transmission Maximum Demand*	$2.32	$2.32	$2.32
Reliability Services Maximum Demand*	$2.02	$2.02	$2.02

* Transmission, Transmission Rate Adjustments, and Reliability Service charges will be combined for presentation on customer bills.

(Continued)

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SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

12. NON-FIRM SERVICE RATES: (Cont'd.)

UNBUNDLING OF TOTAL RATES (Cont'd.)

Energy Rates by Component ($ per kWh)	Secondary Voltage	Primary Voltage	Transmission Voltage	
Generation:				
Peak Summer	$0.12770	$0.10847	$0.11346	
Part-Peak Summer	$0.06946	$0.06324	$0.07062	
Off-Peak Summer	$0.05633	$0.05516	$0.06194	
Part-Peak Winter	$0.07453	$0.07093	$0.08399	
Off-Peak Winter	$0.05616	$0.05610	$0.06629	
Distribution:				
Peak Summer	($0.00335)	($0.00959)	($0.00314)	
Part-Peak Summer	$0.00471	$0.00092	$0.00576	
Off-Peak Summer	$0.00394	$0.00085	$0.00533	
Part-Peak Winter	$0.00532	$0.00131	$0.00741	
Off-Peak Winter	$0.00391	$0.00087	$0.00586	
Noncompliance Penalty ($ per kWh per event)	$8.40	$8.40	$8.40	
Noncompliance Penalty ($ per kWh per event) (For customers who fully complied with the previous years operation)	$4.20	$4.20	$4.20	
UFR Credit ($ per kWh, if applicable)	$0.00091	$0.00091	$0.00091	
Transmission Rate Adjustments* (all usage)	($0.00007)	($0.00007)	($0.00007)	
Public Purpose Programs (all usage)	$0.00472	$0.00433	$0.00447	
Nuclear Decommissioning (all usage)	$0.00035	$0.00035	$0.00035	
Competition Transition Charge (all usage)	$0.00448	$0.00448	$0.00448	(D)
Energy Cost Recovery Amount (all usage)	$0.00534	$0.00534	$0.00534	(N)
DWR Bond (all usage)	$0.00493	$0.00493	$0.00493	

* Transmission, Transmission Rate Adjustments and Reliability Service charges will be combined for presentation on customer bills.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

13. COMMON-AREA ACCOUNTS: Common-area accounts that are separately metered by PG&E and which took electric service from PG&E on or prior to January 16, 2003, have a one-time opportunity to return to a residential rate schedule from April 1, 2004, to May 31, 2004, by notifying PG&E in writing.

In the event that the CPUC substantially amends any or all of PG&E's commercial or residential rate schedules, the Executive Council of Homeowners (ECHO) can direct PG&E to begin an optional second right-of-return period lasting 105 days. However, if this occurs prior to the April 1, 2004, to May 31, 2004, time period, the ECHO directed right of return period will be the only window for returning to a residential schedule. (T)

Newly constructed common-areas that are separately metered by PG&E and which first took electric service from PG&E after January 16, 2003, have a one-time opportunity to transfer to a residential rate schedule during a two-month window that begins 14 months after taking service on a commercial rate schedule. This must be done by notifying PG&E in writing. These common-area accounts have an additional opportunity to return to a residential schedule in the event that ECHO directs PG&E to begin a second right-of-return period.

Only those common-area accounts taking service on Schedule E-8 prior to moving to this tariff may return to Schedule E-8.

Common-area accounts are those accounts that provide electric service to Common Use Areas as defined in Rule 1.

14. CONTRACTS: STANDARD SERVICE AGREEMENT: To begin service under Schedule E-19 for customers with maximum demands greater than 499 kW, the customer shall be required to sign PG&E's Electric General Service Agreement (GSA). The GSA has an initial term of three (3) years, once the three-year initial term is over, the agreement will automatically continue in effect for successive terms of one year each until it is cancelled. Customers may, at any time, request PG&E to modify the GSA if the service arrangements, electrical demand requirements, or delivery criteria to its premises change. However, customers will still be obligated to perform the terms and conditions outlined in any other agreements that supplement the GSA.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

(D)

15. VOLUNTARY SERVICE PROVISIONS: Customers voluntarily taking service on Schedule E-19 (see Applicability Section) shall be governed by all the terms and conditions shown in Sections 1 through 13, unless different terms and conditions are shown below.

a. DEFINITION OF MAXIMUM DEMAND: Demand will be averaged over

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

16. BILLING: (Cont'd.)

Bundled Service Customers receive supply and delivery services solely from PG&E. The customer's bill is based on the Total Rates and Conditions set forth in this schedule.

Transitional Bundled Service Customers take transitional bundled service as prescribed in Rules 22.1 and 23.1, or take bundled service prior to the end of the six (6) month advance notice period required to elect bundled portfolio service as prescribed in Rules 22.1 and 23.1. These customers shall pay charges for transmission, transmission rate adjustments, reliability services, distribution, nuclear decommissioning, public purpose programs, the FTA (where applicable), the RRBMA (where applicable), the applicable Cost Responsibility Surcharge (CRS) pursuant to Schedule DA CRS or Schedule CCA CRS, and short-term commodity prices as set forth in Schedule TBCC.

Direct Access (DA) and Community Choice Aggregation (CCA) Customers purchase energy from their non-utility provider and continue receiving delivery services from PG&E. Bills are equal to the sum of charges for transmission, transmission rate adjustments, reliability services, distribution, public purpose programs, nuclear decommissioning, the FTA (where applicable), the RRBMA (where applicable), the

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

19. OPTIONAL OPTIMAL BILLING PERIOD SERVICE: The Optimal Billing Period service is an experimental program that is limited to a maximum of 150 bundled service accounts at any one time. Customers electing this optional service must sign the Optimal Billing Service Customer Election Form (Standard Form 79-842). (T)

a. Eligibility

On an experimental pilot basis and subject to the availability and installation of solid state recorder equipment, firm service primary and secondary voltage customers whose maximum demand exceeds 500 kW for three consecutive billing months may select the "optimal billing period" service on a voluntary basis in up to two "subject" months (subject month is defined as the month in which the production cycle starts or ends), one at the start and one at the end of the customer's high seasonal production cycle. The meter read date separating the subject month and the "adjacent" month (the adjacent month follows the subject month at the start of production, but precedes it at the end of production) would be redesignated to an alternative read date. In no event shall any revised billing period exceed 45 days nor be less than 15 days. Where the start date is in a summer month, the summer season average rate limiter must otherwise apply to the subject month at the start of the customer's high production cycle, but need not apply to the subject month at the end of production or the two adjacent months.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

19. OPTIONAL OPTIMAL BILLING PERIOD SERVICE: (Cont'd.)

a. Eligibility (Cont'd.) (T)

The customer would retain the protection of the summer average rate limiter in all summer months including the revised subject and adjacent months, where the rate limiter is imposed before the additional customer charge in Section 20.c has been included in the bill calculation.

To qualify, the duration of the customer's high seasonal production period must be six (6) months or less, and the customer's energy consumption during its high seasonal production cycle must be at least 2.0 times its consumption during its low seasonal production cycle for the most recent twelve (12) month period. Customers that discontinue this option may not enroll in this option again for a period of twelve (12) months. The customer must also specify which six (6) consecutive calendar months will be the optimal billing period. The optimal billing period must encompass the customer's high seasonal production period.

b. Customer Notification to PG&E

Upon enrollment, the customer shall notify PG&E of the approximate two months where seasonal production starts and ends. As they occur, the customer shall notify PG&E of the exact seasonal production start and end dates. Upon notification by the customer of a production start date during a summer month, PG&E will wait until the regular read date to verify that the regular subject month bill would have otherwise invoked the rate limiter. If the rate limiter is invoked for the summer subject start month, the customer will be billed based on the optimal meter read dates or the regular scheduled meter read dates, whichever is the lower bill. Throughout the six month period, customers will receive their regular bill. Approximately two months after the production start or end date, the customer will receive a credit, if one should apply, for the optimal billing period. If a credit does not apply, the customer will not receive additional billing. If the rate limiter does not otherwise apply, the regular subject month bill based on the old read date will be issued, and the customer can then request the special optimal bill option in only one production end date "subject" month. The application of this billing option to a production end date may occur prior to its application to a production start date, such as when a customer has more than one high production cycle. The customer must notify PG&E in writing, via facsimile (fax) to both the PG&E account representative and PG&E's Customer Billing Department, of the production start or end date within two days of the production start or end date. Customers will receive from PG&E's Customer Billing Department a fax receipt verification upon notice of a production start or end date. PG&E will notify the customer of the regularly scheduled meter read dates and, upon request, the customer's rate limiter history.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

19. OPTIONAL OPTIMAL BILLING PERIOD SERVICE: (Cont'd.)

c. Customer Charge

Upon enrollment, a special customer charge will be assessed in all six (6) months in the optimal billing period to cover the incremental costs of the required solid state recorder, special program billing, recruitment, and administrative costs. The customer is obligated to pay this monthly customer charge only while enrolled in this option but any customer that drops out may not enroll in this option again for a period of twelve (12) months. Customers who have signed contracts and are awaiting solid state recorders so that they can participate in the program will not be assessed the special customer charge until a solid state recorder has been installed. (T)

For billing purposes, the special customer charge for the optimal billing period service shall be assigned to Distribution.

d. Proration of Charges

All applicable customer charges, demand charges or other applicable fixed charges, shall be prorated as specified in Rule 9. As specified in Rule 9, Sections A and B, the regular billing period will be once each month, and prorations for monthly bills of less than 27 or more than 33 days shall be calculated on the basis of the number of days in the period in question to the total number of days in an average month, as specified in Rule 9.

e. Functional Assignment of Credit

For billing purposes, the Optimal Billing Credit will be assigned to Distribution.

20. ELECTRIC EMERGENCY PLAN ROTATING BLOCK OUTAGES

As set forth in CPUC Decision 01-04-006, all transmission level customers except essential use customers, OBMC participants, net suppliers to the electrical grid, or others exempt by the Commission, are to be included in rotating outages in the event of an emergency. A transmission level customer who refuses or fails to drop load shall be added to the next rotating outage group so that the customer does not escape curtailment. If the transmission level customer fails to cooperate and drop load at PG&E's request, automatic equipment controlled by PG&E will be installed at the customer's expense per Electric Rule 2. A transmission level customer who refuses to drop load before installation of the equipment shall be subject to a penalty of $6/kWh for all load requested to be curtailed that is not curtailed. The $6/kWh penalty shall not apply if the customer's generation suffers a verified, forced outage and during times of scheduled maintenance. The scheduled maintenance must be approved by both the ISO and PG&E, but approval may not be unreasonably withheld.

(Continued)

COMMERCIAL/INDUSTRIAL/GENERAL
SCHEDULE E-19—MEDIUM GENERAL DEMAND-METERED TIME-OF-USE SERVICE
(Continued)

21. STANDBY APPLICABILITY:

SOLAR GENERATION FACILITIES EXEMPTION: Customers who utilize solar generating facilities which are less than or equal to one megawatt to serve load and who do not sell power or make more than incidental export of power into PG&E's power grid and who have not elected service under Schedule E-NET, will be exempt from paying the otherwise applicable standby reservation charges.

DISTRIBUTED ENERGY RESOURCES EXEMPTION: Any customer under a time-of-use rate schedule using electric generation technology that meets the criteria as defined in Electric Rule 1 for Distributed Energy Resources is exempt from the otherwise applicable standby reservation charges. Customers qualifying for this exemption shall be subject to the following requirements. Customers qualifying for an exemption from standby charges under Public Utilities (PU) Code Sections 353.1 and 353.3, as described above, must take service on a time-of-use (TOU) schedule in order to receive this exemption until a real-time pricing program, as described in PU Code 353.3, is made available. Once available, customers qualifying for the standby charge exemption must participate in the real-time program referred to above. Qualification for and receipt of this distributed energy resources exemption does not exempt the customer from metering charges applicable to time-of-use (TOU) and real-time pricing, or exempt the customer from reasonable interconnection charges, non-bypassable charges as required in Preliminary Statement BB - *Competition Transition Charge Responsibility for All Customers and CTC Procurement*, or obligations determined by the Commission to result from participation in the purchase of power through the California Department of Water Resources, as provided in PU Code Section 353.7.

22. DWR BOND CHARGE:

The Department of Water Resources (DWR) Bond Charge was imposed by California Public Utilities Commission Decision 02-10-063, as modified by Decision 02-12-082, and is property of DWR for all purposes under California law. The Bond Charge applies to all retail sales, excluding CARE and Medical Baseline sales. The DWR Bond Charge (where applicable) is included in customers' total billed amounts. (T)

WEST PENN POWER COMPANY

GENERAL POWER SERVICE
SCHEDULE 30

AVAILABILITY

Available for any purpose for loads totaling over 100 kilowatts at an establishment when all service at the establishment is supplied under this Schedule. Connections made before October 14, 1966, shall be for loads greater than 50 kilowatts. Loads over 1,500 kilowatts connected after August 28, 1985, will be served at voltages greater than 1,000 volts. An Electric Service Agreement shall be executed.

Riders Available - Curtailable Service Rider and Experimental Shoulder-Peak Rider are available under this schedule.

MONTHLY RATE

Demand Charge

First 100 kilowatts of Customer's Demand.....$5.76 net per kilowatt
Additional kilowatts of Customer's Demand.....$4.89 net per kilowatt

Voltage Discount

20 cents net per kilowatt of Customer's Kilowatt Demand when the service voltage is between 1,000 and 15,000 volts. 40 cents net per kilowatt of Customer's Kilowatt Demand when the service voltage is over 15,000 volts. This discount does not apply to the Minimum Charge.

Reactive Kilovolt-Ampere Charge

40 cents per reactive kilovolt-ampere of Customer's Reactive Kilovolt-Ampere Demand in excess of 35% of Customer's Kilowatt Demand. This charge shall apply to an individual connection with a fifteen-minute kilowatt demand over 300 kilowatts.

Energy Charge

(I)

First 40,000 kilowatt-hours.....4.164 cents net per kilowatt-hour
Additional kilowatt-hours.....3.728 cents net per kilowatt-hour

Minimum Charge

$6.31 net per kilowatt of 50% Agreement Capacity but not less than 101 kilowatts. The Agreement Capacity shall not be less than the highest Customer's Kilowatt Demand during the term of the Agreement.

Tax Adjustment Surcharge

The Tax Adjustment Surcharge included in this Tariff applies to charges under this Schedule except for charges made under the Energy Cost Rate.

Energy Cost Rate

The Energy Cost Rate applies to all kilowatt-hours supplied under this Schedule.

Late Payment Charge

The above net rates apply if the current bill is paid in full within 15 days of the date of such bill and if all previous undisputed bills have been paid in full. A late payment charge of 1.25% per month of the unpaid balance of a bill will be made for failure to make payment in full by the due date. These charges are to be calculated on the overdue portions of the bill only. Such interest rate, when annualized, shall not exceed 15% simple interest per annum.

Continued on Page No. 42

(I) Indicates Increase

GENERAL POWER SERVICE
SCHEDULE 30
(CONTINUED)

DETERMINATION OF CUSTOMER'S DEMAND FOR INDIVIDUAL CONNECTIONS (C)

300 Kilowatts or Less

The Customer's Kilowatt Demand for any month for an individual connection with a fifteen-minute demand of 300 kilowatts or less shall be the maximum fifteen-minute kilowatt demand, but shall not be less than one kilowatt for each meter. For Customers using weekly averaging, transferred from Rate Schedule 31 after December 15, 1990, weekly averaging availability is also transferred.

Over 300 Kilowatts

Customer's Kilowatt Demand

The Customer's Kilowatt Demand for any month for an individual connection with a fifteen-minute demand of more than 300 kilowatts shall be the average of the Weekly Demands established during the calendar weeks ending within the billing month but not less than 300 kilowatts. No Weekly Demand shall be taken at less than 25% of the highest Weekly Demand of the month.

Customer's Reactive Kilovolt-Ampere Demand

The Customer's Reactive Kilovolt-Ampere Demand for any month for an individual connection with a fifteen-minute demand of more than 300 kilowatts shall be the maximum fifteen-minute leading or lagging reactive kilovolt-ampere demand.

Weekly Demand

The weekly demand shall be the on-peak demand plus 20% of the amount the off-peak demand for the same week exceeds 150% of the on-peak demand.

The on-peak demand for a week shall be the maximum fifteen-minute kilowatt-demand of the on-peak period.

The off-peak demand for a week shall be determined for the off-peak period in the same manner as the on-peak demand.

The on-peak/off-peak provisions are available only to customers whose on-peak demand regularly exceeds 300 kilowatts and who regularly establish off-peak demands that are in excess of the on-peak demand in the same month. For Customers using off-peak service transferred from Rate Schedule 31 after March 15, 1990, off-peak service availability is also transferred.

The on-peak period shall be from 7 a.m. until 10 p.m., Monday through Saturday, provided, however, that the designated on-peak hours may be changed from time to time to conform to Company's system load upon 60 days written notice to Customers affected. The off-peak period shall include all other times.

GENERAL

The demand and kilowatt-hours, respectively, of connections of different voltage and phase at an establishment being combined for billing purposes as of July 7, 1976, may continue to be so combined. All other connections shall be billed separately.

This Schedule may be applied when the maximum fifteen-minute demand normally exceeds 100 kilowatts at an establishment.

Service under this Schedule is subject to power service voltage regulation.

When Customer desires a recording kilowatt meter for an individual connection with a fifteen-minute demand of 300 kilowatts or less, a charge of $17.50 net per month shall be made for not less than 12 months.

When Company installs local transformer capacity to supply a highly fluctuating load, a facility charge of 2.1% net per month of the cost of additional transformer capacity required by the highly fluctuating load shall be made.

Continued on Page No. 42A

(C) Indicates Change

GENERAL POWER SERVICE
SCHEDULE 30
(CONCLUDED)

TERM

Minimum of one year, except as provided below under Monthly Service.

MONTHLY SERVICE

Monthly Service is supplied under this Schedule when Customer advances the net cost of connection and disconnection under the provisions of the applicable financing plan. Charges shall be increased 10% and the Minimum Charge based on 50% of the Agreement Capacity shall be waived.

Monthly Service shall not be available for standby or maintenance service such as that required for alternative generation facilities.

Supplement No. 135 to
Electric-Pa. P. U. C. No. 39
Twenty-First Revised Page No. 46
Cancelling Twentieth Revised Page No. 46

WEST PENN POWER COMPANY

PRIMARY POWER SERVICE
SCHEDULE 40

AVAILABILITY

Available for service at 25,000 volts or higher for loads of 2,000 kilowatts or greater, supplied at a single point of delivery. Also available at 12,470 volts where Company elects, at its sole option, to supply service direct from an adjacent 138,000 volt transmission line by a single transformation. An Electric Service Agreement shall be executed.

Riders Available - Opportunity Power, Curtailable Service and Experimental Shoulder-Peak Riders are available under this schedule.

MONTHLY RATE

Demand Charge (D)

First 2,000 kilowatts of Customer's Demand ..... $8.185 net per kilowatt
Additional kilowatts of Customer's Demand ..... $8.078 net per kilowatt

Voltage Discount

For loads of 10,000 kilowatts or greater, the Company will furnish service at voltages above 100,000 volts if such service is provided at a single delivery point from the Company's transmission system and in the sole judgment of the Company the necessary capacity is available. When such service is supplied and the Customer owns and maintains all required facilities, the following discounts will be allowed, but in no case will the amount of the minimum bill be hereby reduced.

First 10,000 kilowatts of Customer's Demand ..... 70 cents net per kilowatt
Additional kilowatt of Customer's Demand ..... 22 cents net per kilowatt

To qualify for this transmission voltage service, the Customer must be billed for at least 10,000 kilowatts at least once in every 12-month period.

Transformer Charge

When Customer desires to take service under this Schedule at a voltage between 1,000 and 15,000 volts, Company shall provide one transformation at a charge of 40 cents net per kilowatt for the first 2,000 kilowatts and 20 cents net per kilowatt for additional kilowatts of the highest on-peak or off-peak demand for the month, but not less than any such demand previously established during the Term of the Electric Service Agreement nor less than the capacity specified therein. This transformer charge does not apply for those connections supplied at 12,470 volts by a single transformation from an adjacent 138,000 volt line.

Reactive Kilovolt-Ampere Charge

40 cents net per reactive kilovolt-ampere of Customer's Reactive Kilovolt-Ampere Demand in excess of 35% of Customer's Kilowatt Demand.

Energy Charge (D)

First 400 kilowatt-hours per kilowatt
of Customer's Demand ..... 2.332 cents net per kilowatt-hour
Additional kilowatt-hours..... 2.259 cents net per kilowatt-hour

Minimum Charge

Rate Schedule Billing.

Tax Adjustment Surcharge

The Tax Adjustment Surcharge included in this Tariff applies to charges under this Schedule except for charges made under the Energy Cost Rate.

Energy Cost Rate

The Energy Cost Rate applies to all kilowatt-hours supplied under this Schedule.

Continued on Page No. 47

(D) Indicates Decrease

SCHEDULE 40--Concluded

Late Payment Charge

The above net rates apply if the current bill is paid in full within 15 days of the date of such bill and if all previous undisputed bills have been paid in full. A late payment charge of 1.25% per month of the unpaid balance of a bill will be made for failure to make payment in full by the due date. These charges are to be calculated on the overdue portions of the bill only. Such interest rate, when annualized, shall not exceed 15% simple interest per annum.

DETERMINATION OF CUSTOMER'S DEMAND

Customer's Kilowatt Demand:

The Customer's kw demand for any month shall be the maximum fifteen-minute on-peak demand plus 20% of the amount the off-peak demand exceeds 150% of the on-peak demand.

The on-peak demand shall be the maximum fifteen-minute kilowatt demand of the on-peak period plus 25% of the excess of the maximum instantaneous kilowatt operating peak of the on-peak period over 140% of the maximum fifteen-minute demand.

The off-peak demand shall be determined for the off-peak period in the same manner as the on-peak demand.

The on-peak period shall be from 7 a.m. until 10 p.m. Monday through Saturday, provided, however, that the **(C)** designated on-peak hours may be changed from time to time to conform to Company's system load upon 60 days written notice to customers affected. The off-peak period shall include all other times not designated as on-peak.

The Customer's Demand shall not be less than the highest of the following:

(a) 2,000 kilowatts.
(b) 50% of the kilowatt capacity specified in the Electric Service Agreement.
(c) 50% of the highest Customer's Demand established during the most recent ten-year period or during the Term of the Electric Service Agreement whichever is the lesser time.

Customer's Reactive Kilovolt-Ampere Demand

The Customer's Reactive Kilovolt-Ampere Demand for any month shall be the maximum fifteen-minute leading or lagging reactive kilovolt-ampere demand.

TERM

The minimum Term of the Electric Service Agreement required by Company under Rule [illegible]

THE POTOMAC EDISON COMPANY

Electric P. S. C. Md. No. 53
Eighth Revision of
Original Page No. 11
Canceling
Seventh Revision of
Original Page No. 11

LIGHT AND POWER SERVICE
(High Load Factor)

SCHEDULE "PH"

AVAILABILITY

Available for loads of 50 kilowatts or greater at standard single phase and three phase voltages. The standard voltages available depend upon location, character and size of Customer's load. This information can be furnished at any of the Company's offices. Service shall not be available for Standby or Maintenance Service such as that required for Alternative Generation Facilities.

MONTHLY RATE

CAPACITY CHARGE

First 500 kilowatts of capacity required per month $11.29 per Kw
All over 500 kilowatts of capacity required per month $11.04 per Kw

REACTIVE KILOVOLTAMPERE CHARGE

40* per reactive kilovoltampere of Customer's reactive kilovoltampere capacity requirement in excess of 25% of the Customer's kilowatt capacity.

ENERGY CHARGE

First 100,000 kilowatthours used $0.01471 per Kwh
All over 100,000 kilowatthours used $0.01194 per Kwh

FUEL RATE

Applies to all kilowatthours served under this schedule.

ISSUED BY JAMES D. LATIMER, EXECUTIVE VICE PRESIDENT

Issued November 1, 1994

To become effective on
all bills rendered on
or after November 11, 1994

Issued under Order No. 71465 in Case No. 8652

LIGHT AND POWER SERVICE
(High Load Factor)

SCHEDULE "PH" (Continued)

MINIMUM CHARGE

$7.14 per kilowatt based on one-half of the highest kilowatt capacity required in the preceding eleven months.

VOLTAGE DISCOUNT

Company will furnish service at one voltage and at one point from the Company's existing distribution system voltage. A voltage discount of 25¢ per kilowatt will apply when the Customer takes service at a voltage between 2,000 and 15,000 volts and provides all facilities beyond the Point of Service. A voltage discount of 50¢ per kilowatt will apply when the Customer takes service at a voltage greater than 15,000 volts and provides all facilities beyond the Point of Service.

LATE PAYMENT CHARGE

Applies to this schedule as set forth in Company Rule No. 12 of this tariff.

DETERMINATION OF CAPACITY

KILOWATT CAPACITY

Capacity required is the highest metered demand in kilowatts established over a 30-minute interval during a billing period, but not less than 50 kilowatts.

OFF-PEAK SERVICE

For customers whose contracted kilowatt capacity is 200 kilowatts or greater and who contract for "off-peak" service, the billing demand for any month shall be the maximum demand measured during "on-

LIGHT AND POWER SERVICE
(High Load Factor)

SCHEDULE "PH" (Continued)

DETERMINATION OF CAPACITY (Continued)

REACTIVE KILOVOLTAMPERE CAPACITY

Capacity required is the highest metered demand in reactive kilovoltamperes established over a 30-minute interval during a billing period.

Reactive meters will be installed when the Customer's kilowatt capacity exceeds 200 kilowatts. Kilowatts and reactive kilovoltamperes will be computed to the nearest whole number.

TERM

A one year minimum term is required. When the Company's net investment in local facilities is $10,000 or more for new or upgraded connections, an Electric Service Agreement with a three year minimum term is required. Further, if the capacity specified in the agreement is 200 kilowatts or more and the Customer elects to continue the service beyond the minimum term, such service shall be provided on a year-to-year basis under the same Electric Service Agreement terms and conditions.

GENERAL

Service supplied is subject to the Rules and Regulations Covering the Supply of Electric Service and Rules and Regulations for Meter and Service Installations of the Company as filed with the Commission.

SPECIAL TRANSFORMATION FACILITIES

The Company normally supplies and meters service at one voltage.

When the Customer requires service at more than one voltage and service is metered at primary voltage or its equivalent, the following conditions apply:

- For installations prior to September 10, 1985, the Company may provide in addition to primary voltage two transformer banks and the Customer provides all interconnecting facilities. Voltage discount shall not apply.

- For installations between September 10, 1985, and February 25, 1993, the Company may provide, in addition to primary voltage, one transformer bank and the Customer provides all interconnecting facilities. Voltage discount shall not apply.

LIGHT AND POWER SERVICE
(High Load Factor)

SCHEDULE "PH" (Concluded)

SPECIAL TRANSFORMATION FACILITIES (Continued)

- For installations after February 25, 1993, the Company will provide service at primary voltage and the Customer provides, owns, and maintains all facilities beyond the Company's meter point. Voltage discount will apply.

STANDBY AND BREAKDOWN SERVICE

The Company will supply up to 1,000 kilowatts in capacity for Auxiliary or Breakdown Service to Customers having other sources of energy supply.

The Customer shall contract for a definite capacity in kilowatts registered over a 30 minute period and for a term of one year or longer.

The minimum monthly charge for Auxiliary or Breakdown Service shall be $4.96 per kilowatt of contracted capacity.

SPECIAL SERVICE

When the Company must install special transformers or other equipment to provide service for welding load or other highly fluctuating loads then the Company shall have the option of measuring the kilowatts and the reactive kilovoltamperes required by instantaneous meters and 50% of the values so found shall be used in determining the kilowatts and reactive kilovoltamperes used for billing.

THE POTOMAC EDISON COMPANY

Electric P. S. C. Md. No. 53
Eighth Revision of
Original Page No. 12
Canceling
Seventh Revision of
Original Page No. 12

POWER SERVICE - LARGE PRIMARY

SCHEDULE "PP"

AVAILABILITY

Available to Customers with monthly capacity requirements of 5,000 kilowatts or more that can be served from a 138,000/34,500 volt Load Center Substation located within 5 miles of the point of delivery to the Customer. Also available to Customers with monthly capacity requirements of 10,000 kilowatts and over, located adjacent to 138,000 volt transmission lines. Also available at 12,470 volts where the Company elects, at its sole option, to supply Service directly from an adjacent 138,000 volt transmission line by a single transformation. Service shall not be available for Standby or Maintenance Service such as that required for Alternative Generation Facilities. Service will be delivered and metered at 34,500 volts or over. An Electric Service Agreement must be executed.

MONTHLY RATE

CAPACITY CHARGE

$9.206 per kilowatt measured as set forth below under "Determination of Capacity".

ENERGY CHARGE

All kilowatthours $0.00820 per kilowatthour.

REACTIVE KILOVOLTAMPERE CHARGE

40¢ per reactive kilovoltampere of Customer's reactive kilovoltampere capacity requirement in excess of 25% of the Customer's kilowatt capacity.

FUEL RATE

Applies to all kilowatthours served under this schedule.

MINIMUM CHARGE

Rate schedule billing.

ISSUED BY JAMES D. LATIMER, EXECUTIVE VICE PRESIDENT

Issued November 1, 1994

To become effective on
all bills rendered on
or after November 11, 1994

Issued under Order No. 71465 in Case No. 8652

Third Revision of
Original Page No. 12-1
Canceling
Second Revision of
Original Page No. 12-1

POWER SERVICE - LARGE PRIMARY

SCHEDULE "PP" (Continued)

DETERMINATION OF CAPACITY

KILOWATT CAPACITY

Kilowatt billing capacity during a billing period shall be the highest of:

1. The maximum 30-minute metered kilowatt capacity, or

2. For Customers contracting for "off-peak" service, the billing demand for any month shall be the maximum demand measured during "on-peak" hours plus 25 percent of the amount that the maximum demand measured during "off-peak" hours exceeds the maximum "on-peak" demand.

   "Off-Peak" hours shall be from 10:00 P.M. to 7:00 A.M. daily plus all hours of Sunday.

   Customer will be responsible for the cost of additional facilities required to furnish "off-peak" capacity in excess of "on-peak" capacity.

3. 60% of the maximum instantaneous kilowatt capacity.

   However, the "Billing Capacity" for any month shall not be less than the highest of:

   (a) 5,000 kilowatts, or,
   (b) 75% of the kilowatt capacity specified in the Electric Service Agreement, or,
   (c) 75% of the highest "Billing Capacity" established during the preceding eleven months.

REACTIVE KILOVOLTAMPERE CAPACITY

Reactive kilovoltampere capacity is the highest metered demand in reactive kilovoltamperes established over a 30-minute interval during a billing period.

Kilowatts and reactive kilovoltamperes will be computed to the nearest whole number.

LATE PAYMENT CHARGE

Applies to this schedule as set forth in Company Rule No. 12 of this tariff.

ISSUED BY ALAN J. NOIA, PRESIDENT

Issued December 10, 1991

To become effective on
all service rendered on
or after November 26, 1991

POWER SERVICE - LARGE PRIMARY

SCHEDULE "PP" (Concluded)

ELECTRIC SERVICE AGREEMENT AND TERM

An Electric Service Agreement is required for a minimum term of five years with automatic annual renewals thereafter. A one year written cancellation notice is required. A new agreement may be required where Customer increases capacity requirement.

GENERAL

Service supplied is subject to the Rules and Regulations Covering the Supply of Electric Service, and Rules and Regulations for Meter and Service Installations of the Company as filed with the Commission.

The Company may at its option, extend service to the "point of service" of a Customer's plant located beyond five miles from a Load Center Substation, provided, the Customer will pay a facilities charge for transmission line facilities in excess of five miles. Distances will be computed in pole miles to the nearest tenth of a mile.

THE POTOMAC EDISON COMPANY
Doing Business As
ALLEGHENY POWER

Electric P. S. C. Md. No. 53
Thirteenth Revision of
Original Page No. 8
Canceling
Twelfth Revision of
Original Page No. 8

GENERAL SERVICE
SCHEDULE "G"

AVAILABILITY

Available for single phase and three phase service at standard Company voltage throughout the entire territory served by the Company. The standard voltage depends upon the location, character and size of the Customer's load. This information can be furnished at any of the Company's offices. Service shall not be available for Standby or Maintenance Service such as that required for Alternative Generation Facilities. All applicable surcharges, credits and taxes shall apply.

MONTHLY RATE

DISTRIBUTION CHARGES

Capacity Charge

Minimum Charge	$2.47 per month
Minimum kilowatts	$1.39 per kilowatt
All kilowatts in excess of 7.5 measured as set forth under "Determination of Capacity"	$1.74 per kilowatt

Energy Charge

First block (0-700 kilowatt-hours)	$0.03081 per kilowatt-hour
Second block (over 700 kilowatt-hours)	$0.01429 per kilowatt-hour

Voltage Discount

Company will furnish service at one voltage and at one point from the Company's existing distribution system voltage. A voltage discount of 25¢ per kilowatt will apply when the Customer takes service at a voltage between 2,000 and 15,000 volts and provides all facilities beyond the Point of Service. A voltage discount of 50¢ per kilowatt will apply when the Customer takes service at a voltage greater than 15,000 volts and provides all facilities beyond the Point of Service.

Reactive Kilovolt-Ampere Charge

Reactive kilovolt-ampere charge is applied to the Customer's reactive kilovolt-ampere capacity requirement in excess of 25% of the Customer's kilowatt capacity.

Billing reactive kilovolt-amperes	$0.40 per reactive kilovolt-ampere

ISSUED BY BRUCE E. WALENCZYK, VICE PRESIDENT

Issued December 21, 2001

To become effective on
all bills rendered on

or after January 8, 2002

* Public Service Commission Administrative Meeting of December 19, 2001 in Case No. 8797 reflecting the Commission Order of December 6, 2001 in Case No. 8903

THE POTOMAC EDISON COMPANY
Doing Business As
ALLEGHENY POWER

Electric P. S. C. Md. No. 53
Ninth Revision of
Original Page No. 8-1
Canceling
Eighth Revision of
Original Page No. 8-1

GENERAL SERVICE
SCHEDULE "G" (Continued)

TRANSMISSION CHARGES

Capacity Charge

Minimum Charge	$0.34 per month
Minimum kilowatts	$0.19 per kilowatt
All kilowatts in excess of 7.5 measured as set forth under "Determination of Capacity"	$0.24 per kilowatt

Energy Charge

First block (0-700 kilowatt-hours)	$0.00440 per kilowatt-hour
Second block (over 700 kilowatt-hours)	$0.00214 per kilowatt-hour

The transmission charges are based on PJM's Open Access Transmission Tariff which will change from time to time and is subject to Federal Energy Regulatory Commission (FERC) approval.

ANCILLARY SERVICES (all kWh)

Scheduling, System Control & Dispatch	$0.00000 per kilowatt-hour
Energy Imbalance	$0.00000 per kilowatt-hour
Reactive & Voltage Control	$0.00024 per kilowatt-hour
Regulation & Frequency Response	$0.00026 per kilowatt-hour
Spinning Reserve	$0.00069 per kilowatt-hour
Supplemental Reserve	$0.00062 per kilowatt-hour

ELECTRIC SUPPLY CHARGES

Capacity Charge

Minimum Charge	$6.12 per month
Minimum kilowatts	$3.45 per kilowatt
All kilowatts in excess of 7.5 measured as set forth under "Determination of Capacity"	$4.30 per kilowatt

Energy Charge

First block (0-700 kilowatt-hours)	$0.05473 per kilowatt-hour
Second block (over 700 kilowatt-hours)	$0.02436 per kilowatt-hour

The Transmission, Ancillary, and Electric Supply Charges apply only to Customers receiving SOS from the Company. These charges do not apply to customers obtaining Competitive Power Supply.

ISSUED BY BRUCE E. WALENCZYK, VICE PRESIDENT

Issued March 27, 2002

To become effective on
all bills rendered on
or after April 1, 2002

Approved at Public Service Commission Administrative Meeting of March 20, 2002 in Case No. 8797

GENERAL SERVICE
SCHEDULE "G" (Continued)

MINIMUM CHARGE

Capacity to be used in determining the minimum charge shall be the capacity required in the current month, but not less than one-half (½) the highest kilowatt capacity required in the previous twelve (12) months.

For connections without a demand meter, the kilowatt capacity required under this schedule shall be defined as the number of kilowatt-hours used in the current month, but not less than one-half (½) of the highest kilowatt-hours used in any of the previous twelve (12) months, divided by 250.

LATE PAYMENT CHARGE

Applies to this schedule as set forth in Company Rule No. 12 of this tariff.

DETERMINATION OF CAPACITY

KILOWATT CAPACITY

Capacity required is the highest metered demand in kilowatts established over a thirty (30) minute interval during the billing period.

REACTIVE KILOVOLTAMPERE CAPACITY

Capacity required is the highest metered demand in reactive kilovoltamperes established over a thirty (30) minute interval during a billing period.

Reactive meters will be installed when the Customer's kilowatt capacity exceeds 200 kilowatts.

Kilowatts and reactive kilovoltamperes will be computed to the nearest one-half (½) kilowatt and reactive kilovoltampere.

THE POTOMAC EDISON COMPANY
Doing Business As
ALLEGHENY POWER

Electric P. S. C. Md. No. 53
Sixth Revision of
Original Page No. 8-3
Canceling
Fifth Revision of
Original Page No. 8-3

GENERAL SERVICE
SCHEDULE "G" (Continued)

TERM

Up to 25 kilowatts of single phase capacity is provided on a month to month basis. A one year minimum term is required for single phase capacity in excess of 25 kilowatts and for three (3) phase service (except as provided under "Monthly Service"). When the Company's net investment in local facilities is ten thousand (10,000) dollars or more for new or upgraded connections, an Electric Service Agreement with a three year minimum term is required.

GENERAL

Service supplied is subject to the Rules and Regulations Covering the Supply of Electric Service and the Rules and Regulations for Meter and Service Installations of the Company as filed with the Commission.

Compensating for Transmission and Distribution Losses

For service at less than 2,000 volts, multiplying Customers' on-peak metered energy by 1.09513 and off-peak metered energy by 1.08671 produces the generation energy that must be delivered to the Company system. For service between 2,000 and 15,000 volts, the multipliers are 1.07542 and 1.06893, and for service between 15,000 and 100,000 volts, the multipliers are 1.03742 and 1.03458, respectively.

ISSUED BY BRUCE E. WALENCZYK, VICE PRESIDENT

Issued March 27, 2002

To become effective on
all bills rendered on
or after April 1, 2002

Approved at Public Service Commission Administrative Meeting of March 20, 2002 in Case No. 8797

THE POTOMAC EDISON COMPANY
Doing Business As
ALLEGHENY POWER

Electric P. S. C. Md. No. 53
Fifth Revision of
Original Page No. 8-4
Canceling
Fourth Revision of
Original Page No. 8-4
and
Second Revision of
Original Page No. 8-5
and
Original Page No. 8-6

GENERAL SERVICE
SCHEDULE "G" (Concluded)

MONTHLY SERVICE

Monthly service is available if the Customer pays the net cost of connection and disconnection and pays the following additional charges:

Months of Continuous Service	Additional Charge
1st and 2nd Months	10% of Monthly Bill
3rd and 4th Months	8% of Monthly Bill
5th and 6th Months	6% of Monthly Bill
7th and 8th Months	4% of Monthly Bill
9th to 11th Months	2% of Monthly Bill
12th and thereafter	0% of Monthly Bill

ISSUED BY MICHAEL P. MORRELL, VICE PRESIDENT

Issued June 20, 2000

To become effective on
all bills rendered on
or after July 1, 2000

Issued in accordance with the Commission's directive June 2, 2000 in Case No. 8797

Pacific Power & Light Company
Portland, Oregon

Canceling

Revised Cal.P.U.C.Sheet No. 2037-E
Revised Cal.P.U.C.Sheet No. 1920-E*

Schedule No. A-32

GENERAL SERVICE
20 kW AND OVER

APPLICABILITY

Applicable to single-phase or three-phase alternating current electric service, at such voltage as the Utility may have available at the customer's premises, for electric service loads which have ever registered 20 kW or more, more than once in any consecutive 18 month period. Deliveries at more than one point, or more than one voltage and phase classification, will be separately metered and billed. A written agreement shall be required for application of this schedule to service furnished for intermittent or highly fluctuating loads. Not applicable to service for use in parallel with, in supplement to, or in standby for customer's electric generation or other energy sources.

Non-profit group living facilities taking service under this schedule may be eligible for a fifteen percent (15%) low-income rate discount on their monthly bill, if such facilities qualify to receive service under the terms and conditions of Schedule No. AL-6.

TERRITORY

Within the entire territory served in California by the Utility.

MONTHLY BILLING

The Monthly Billing shall be the sum of the Basic, Distribution Demand, Generation and Transmission Demand, Energy, and Reactive Power Charges; plus Delivery and Metering Adjustments.

Basic Charge:

	Per Month
For single-phase service	$10.00
For three-phase service	$13.75

Distribution Demand Charge:
$1.60 per kW

Generation and Transmission Demand Charge:
$1.10 per kW

Energy Charge:

Base Rate	Adjustments	Net Rate
7.206¢	0.094¢	7.300¢ per kWh for all kWh.

Adjustments

The above Net Rate includes adjustments as follows:

	Adjustments
Schedule S-99 (Reimbursement Fee)	0.012 ¢/kWh
Schedule S-100 (CARE)	0.082 ¢/kWh
Total	0.094 ¢/kWh

(Continued)

Issued by

Advice Letter No. 264-E — Robert V. Sirvaitis (Name) — Date Filed May 1, 1995

Decision No. — Director, Pricing (Title) — Effective May 17, 1995

TF6 A-32-1.E

Resolution No. E-3407

Schedule No. A-32

GENERAL SERVICE
20 kW AND OVER
(Continued)

Minimum Charge:
The Monthly Minimum Charge shall be the sum of the Basic Charge, the Generation and Transmission Demand Charge, and the Distribution Demand Charge for the current month. A higher minimum may be required under contract to cover special conditions.

Reactive Power Charge:
The maximum 15-minute integrated reactive demand in kilovolt-amperes occurring during the month in excess of 40% of the maximum measured 15-minute integrated demand in kilowatts occurring during the month will be billed, in addition to the above charges, at 60¢ per kvar of such excess reactive demand.

DELIVERY AND METERING VOLTAGE ADJUSTMENTS

The above monthly charges are applicable without adjustment for voltage when delivery and metering are at Company's standard secondary distribution voltage.

Metering: For so long as metering voltage is at Company's available primary distribution voltage of 11 kV or greater, the above energy charges except for the Schedule S-99 Reimbursement Fee, will be reduced by 1.0%. A Primary Metering Charge of $60 per month will be added where such deliveries are metered at the delivery voltage.

Delivery: For so long as delivery voltage is at Company's available primary distribution voltage of 11 kV or greater, the above Distribution Demand Charges will be reduced by 30.0%.

When a new delivery or an increase in capacity for an existing delivery is, at request of customer, made by means of Company-owned transformers at a voltage other than a locally standard distribution voltage, the above Distribution Demand Charges for any month will be increased by 30.0%.

Company retains the right to change its line voltage or classifications thereof at any time, and after reasonable advance notice to any customer affected by such change, such customer then has the option to take service at the new line voltage or to accept service through transformers to be supplied by Company subject to the voltage adjustments above.

(Continued)

Pacific Power & Light Company
Portland, Oregon

Canceling

Revised Cal.P.U.C.Sheet No. 1922-E
Original Cal.P.U.C.Sheet No. 1440-E

Schedule No. A-32

GENERAL SERVICE
20 kW AND OVER
(Continued)

DISTRIBUTION DEMAND

The Distribution Demand shall be the average of the two greatest non-zero monthly demands established during the 12-month period which includes and ends with the current billing month.

GENERATION AND TRANSMISSION DEMAND

The Generation and Transmission Demand shall be the greater of the following:

(a) the maximum measured 15-minute integrated demand in kilowatts occurring during the month, or
(b) the diversified resistance welder load computed in accordance with Rule No. 2I-2-b.

CONTINUING SERVICE

Except as specifically provided otherwise, the rates of this tariff are based on continuing service at each service location. Disconnect and reconnect transactions shall not operate to relieve a seasonal customer from minimum monthly charges.

TERM OF CONTRACT

Not less than one year.

RULES AND REGULATIONS

Service under this schedule is subject to the General Rules and Regulations contained in the tariff of which this schedule is a part and to those prescribed by regulatory authorities.

Issued by

Advice Letter No. 255-E — Robert V. Sirvaitis (Name) — Date Filed 12/10/93

Decision No. 93-12-016 — Director, Pricing (Title) — Effective 1/1/94

TF6 A-32-3.E — Resolution No.

Schedule No. A-36

LARGE GENERAL SERVICE - Optional
100 KW AND OVER

APPLICABILITY

Applicable to electric service loads which have not registered less than 20 kw or more than 500 kw more than once in a consecutive 18-month period. Deliveries at more than one point, or more than one voltage and phase classification, will be separately metered and billed. A written agreement shall be required for application of this schedule to service furnished for intermittent or highly fluctuating loads. Not applicable to service for use in parallel with, in supplement to, or in standby for customer's electric generation or other energy sources.

Non-profit group living facilities taking service under this schedule may be eligible for a fifteen percent (15%) low-income rate discount on their monthly bill, if such facilities qualify to receive service under the terms and conditions of Schedule No. AL-6.

TERRITORY

Within the entire territory served in California by the Utility.

MONTHLY BILLING

The Monthly Billing shall be the sum of the Basic, Distribution Demand, Generation and Transmission Demand, Energy, and Reactive Power Charges; plus Delivery and Metering Adjustments.

Basic Charge:
$160

Distribution Demand Charge:
$2.00 per kw

Generation and Transmission Demand Charge:
$3.00 per kw

Energy Charge:

Base Rate	Adjustments	Net Rate
5.145¢	0.094¢	5.239¢ per kWh for all kWh.

Adjustments

The above Net Rate includes adjustments as follows:

	Adjustments
Schedule S-99 (Reimbursement Fee)	0.012 ¢/kwh
Schedule S-100 (CARE)	0.082 ¢/kwh
Total	0.094 ¢/kwh

(Continued)

Schedule No. A-36

LARGE GENERAL SERVICE - Optional
100 KW AND OVER
(Continued)

Minimum Charge:
Monthly Minimum Charge shall be the Basic Charge plus the Generation and Transmission Demand Charge and the Distribution Demand Charge for the current month. A higher minimum may be required under contract to cover special conditions.

Reactive Power Charge:
The maximum 15-minute integrated reactive demand in kilovolt-amperes occurring during the month in excess of 40% of the maximum measured 15-minute integrated demand in kilowatts occurring during the month will be billed, in addition to the above charges, at 60¢ per kvar of such excess reactive demand.

DELIVERY AND METERING VOLTAGE ADJUSTMENTS
The above monthly charges are applicable without adjustment for voltage when delivery and metering are at Company's standard secondary distribution voltage.

Metering: For so long as metering voltage is at Company's available primary distribution voltage of 11 kV or greater, the above energy charges except for the Schedule S-99 Reimbursement Fee, will be reduced by 1.0%. A Primary Metering Charge of $60 per month will be added where such deliveries are metered at the delivery voltage.

Delivery: For so long as delivery voltage is at Company's available

Schedule No. A-36

LARGE GENERAL SERVICE - Optional
100 KW AND OVER
(Continued)

DISTRIBUTION DEMAND

The Distribution Demand shall be the average of the two greatest non-zero monthly demands established during the 12-month period which includes and ends with the current billing month.

GENERATION AND TRANSMISSION DEMAND

The Generation and Transmission Demand shall be the greater of the following:

(a) the maximum measured 15-minute integrated demand in kilowatts occurring during the month, or
(b) the diversified resistance welder load computed in accordance with Rule No. 2I-2-b.

CONTINUING SERVICE

Except as specifically provided otherwise, the rates of this tariff are based on continuing service at each service location. Disconnect and reconnect transactions shall not operate to relieve a seasonal customer from minimum monthly charges.

TERM OF CONTRACT

Utility may require customer to sign a written contract which will have a term of not less than five years.

RULES AND REGULATIONS

Service under this schedule is subject to the General Rules and Regulations contained in the tariff of which this schedule is a part and to those prescribed by regulatory authorities.

(Continued)

Pacific Power & Light Company
Portland, Oregon

Canceling

Revised Cal.P.U.C.Sheet No. 1976-E
Revised Cal.P.U.C.Sheet No. 1973-E*

Schedule No. AT-48

LARGE GENERAL SERVICE - METERED TIME OF USE
500 KW AND OVER

APPLICABILITY

This schedule is applicable to electric service loads which have registered 500 kw or more, more than once in a consecutive 18-month period. This schedule will remain applicable until customer fails to equal or exceed 500 kW for a period of 36 consecutive months. Deliveries at more than one point, or more than one voltage and phase classification, will be separately metered and billed. Service for intermittent, partial requirements, or highly fluctuating loads will be provided only by special contract for such service.

Partial requirements service for loads of 500 kW and over will be provided only by application of the provisions of Schedule AT-47.

Non-profit group living facilities taking service under this schedule may be eligible for a fifteen percent (15%) low-income rate discount on their monthly bill, if such facilities qualify to receive service under the terms and conditions of Schedule No. AL-6.

TERRITORY

Within the entire territory served in California by the Utility.

MONTHLY BILLING

The Monthly Billing shall be the sum of the Basic, Distribution Demand, Generation and Transmission Demand, Energy, and Reactive Power Charges; plus Metering and Delivery Adjustments.

Basic Charge: $360

Distribution Demand Charge:
$2.90 per kW

Generation and Transmission Demand Charge:

On-Peak Period Demand (Monday through Friday: 6:00 a.m. to 10:00 p.m.)	Winter** Months	Summer** Months
For each kW	$3.20	$2.15

**Note:

If the meter reading date is:	The charge is:
January 1 through April 30	Winter
May 1 through October 31	Summer
November 1 through December 31	Winter

(Continued)

Pacific Power & Light Company
Portland, Oregon

Canceling

Revised Cal.P.U.C.Sheet No. 2044-E
Revised Cal.P.U.C.Sheet No. 1926-E*

Schedule No. AT-48

LARGE GENERAL SERVICE - METERED TIME OF USE

Pacific Power & Light Company
Portland, Oregon

Canceling

Revised Cal.P.U.C.Sheet No. 1927-E
Revised Cal.P.U.C.Sheet No. 1450-E

Schedule No. AT-48

LARGE GENERAL SERVICE - METERED TIME OF USE
500 KW AND OVER
(Continued)

When a new delivery or an increase in capacity for an existing delivery is, at request of customer, made by means of utility-owned transformers at a voltage other than a locally standard distribution voltage, the above Distribution Demand Charges for any month will be increased by 30.0%.

Utility retains the right to change its line voltage or classifications thereof at any time, and after reasonable advance notice to any customer affected by such change, such customer then has the option to take service at the new line voltage or to accept service through transformers to be supplied by Utility subject to the voltage adjustments above.

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CA-IR-439

Ref: AOS 2005, at 4-5, 24-25.

a. Has HECO conducted in the last three years any studies of opportunities to improve the availability levels of its owned generating facilities.

b. If so, please provide a copy of the results of those studies.

c. If no, please explain why not.

HECO Response:

a. Yes, HECO has conducted studies through its maintenance programs, practices and application of various technologies and testing techniques. The studies primarily focus on critical pieces of equipment such as the boiler, generator and turbine that significantly impact unit availability.

For example, ultrasonic shear wave, video probe, and wet fluorescent magnetic

Advocate and the Department of Defense on April 14, 2005, shows the Boiler internal inspection record as of February 10, 2005, for all HECO steam units.

Also, special techniques and processes were developed by employees to replace critical superheater tubes and avoid longer unit outages required to perform an extensive and complex flushing process referred to as a steam blow. This non-steam blow technique was first successfully applied in 2004 on Kahe Unit 5 during the replacement of the reheater steam tubes in the boiler. The result was the avoidance of a 2 plus week extension to allow sufficient time to modify the boiler to accommodate steam blowing, performing the steam blow process, and restoring the boiler for normal operation. A similar non-steam blow process will be used to replace the superheater section on Kahe Unit 6 in 2005.

Generators have undergone major inspection and testing on both the armature (stator) and field (rotor) based on advances in technology that can detect and locate degraded insulation in the generator armature, and other technologies such as flux probe testing to monitor the condition of the field.

Balance of plant components such as pumps, motors, breakers, heat exchangers, transformers, etc. are monitored utilizing technologies discussed in HECO's response to CA-IR-46 filed with the Consumer Advocate and the Department of Defense on April 14, 2005.

b. Examples of turbine, boiler and generator analysis reports are provided below. While the information is very technical, this is the level of knowledge and expertise required to understand the condition of HECO's aging fleet of generating units, and to take appropriate corrective action to maintain availability and reliability.

1. Preliminary Report on the Results of the Nondestructive Evaluation (NDE) and

Engineering Analysis of Honolulu Unit 8 Generator Rotor (Reference: R&A C-7058) on pages 4 to 18.

2. Field Report – Nondestructive Examinations Results performed at Honolulu - Hicks Generating Station Unit 9 Generator/Turbine components (Reference: R&A C-7028) on pages 19 to 45.
3. Waiau Unit 5 Generator Final Post Restack and Rewind Summary dated 2/19/03, on pages 46 to 53.
4. February, 2004, Integrity and Condition Assessment of Selected Areas on the Main Steam and Hot Reheat Piping Systems - Kahe Unit 5. Report issued on June 29, 2004 on pages 54 to 70.

c. Not applicable.

REINHART & ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION SPECIALISTS
& ENGINEERING SERVICES

P.O. BOX 81545
AUSTIN, TX 78708-1545
PHONE: (512) 834-8911
FAX: (512) 834-1266
Email: mail@reinhartassoc.com
Web Site: http://www.reinhartassoc.com

May 20, 2003

Mr. Jim Carberry
Senior Engineer
Technical Services Division
Power Supply Services Department
Hawaiian Electric Company, Inc. (HECO)
P.O. Box 2750
Honolulu, HI 96840-0001

Phone: (808) 543-4265
Fax: (808) 543-4366
E-mail: jcarberr@hei.com

Subject: Preliminary Report on the Results of the Nondestructive Evaluation (NDE) and Engineering Analysis of Honolulu U-8 Generator Rotor.

Reference: R&A C-7058

Dear Jim,

Reinhart & Associates, Inc. personnel performed a series of NDE examinations and engineering analysis on the Honolulu U-8 generator rotor to provide information to assess rotor integrity and suitability for future service. The examinations were performed during the period of April 29 to May 17, 2003. Also NDE examined were the LP rotor, the HP-IP rotor, HP shell, and other turbine components. The examinations were performed for HECO at Kahe, Honolulu, and Waiau generating stations. The NDE examinations performed included visual testing (VT), wet fluorescent magnetic particle testing (WFMT), and ultrasonic testing (UT). The UT utilized longitudinal wave or straight beam and angle shear waves. These examinations were performed on and from the boreside where the highest stresses occur during service.

The results of the examinations revealed the presence of four (4) boreside surface connected indications having "crack-like" characteristics. These indications were verified using VT, WFMT, and UT testing techniques. The indications are located in the main body of the generator rotor between 95 inches and 160 inches from the turbine or governor end flange. They ranged in axial length from 0.5 inches to 1.50 inches and in radial depth from 0.250 inches to up to 1.250 inches.

Using the above information, typical material properties of a generator of this vintage, finite element stress analysis, and fracture mechanics principles, it was determined that the critical flaw size under the service conditions for the Honolulu U-8 generator rotor is very close to the current size of the indications detected during the NDE examinations. This essentially means that the remaining life of this rotor is very short if operated under these conditions. Therefore, it is highly recommended that these indications be removed from the bore by machining a bottle bore. In doing this, the remaining life of the rotor will be extended to a much longer period provided it is NDE examined at intervals to be determined after a full engineering analysis is performed using the actual material properties of the rotor.

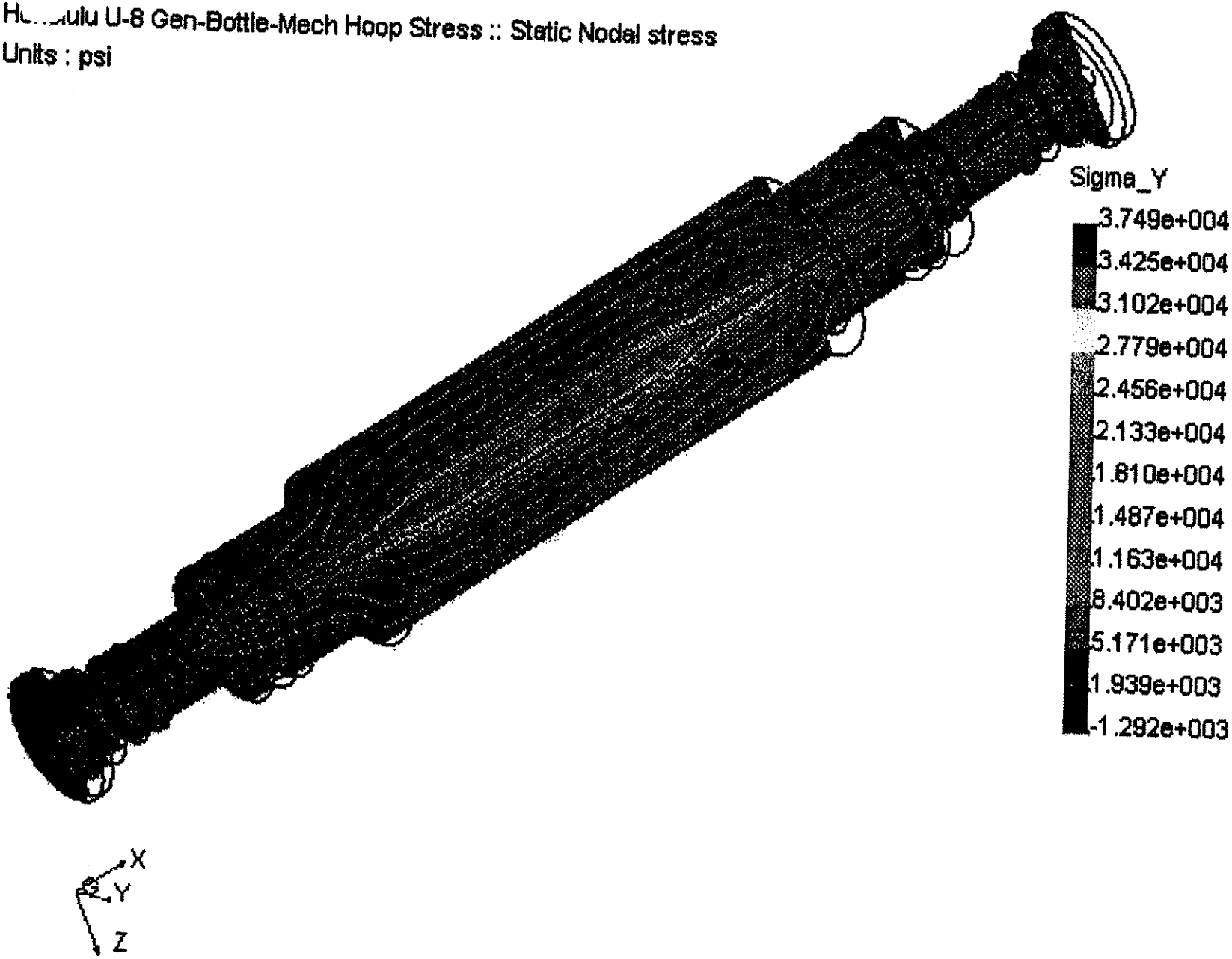
We look forward to the opportunity of working with *HECO* on this and other projects.

If you have any question or need additional information, please let us know.

Sincerely,

Teodoro Leon-Salamanca, Ph.D.
Director of Engineering

Reinhart & Associates, Inc.
tlsalamanca@earthlink.net
(512) 826-0778 Cellular
(512) 834-8911 Office


Hc..ulu U-8 Gen-Bottle-Mech Hoop Stress :: Static Nodal stress
Units : psi
Sigma_Y
3.749e+004
3.425e+004
3.102e+004
2.779e+004
2.456e+004
2.133e+004
1.810e+004
1.487e+004
1.163e+004
8.402e+003
5.171e+003
1.939e+003
-1.292e+003
X
Y
Z

MECHANICAL HOOP STRESS IN A ROTATING CYLINDER

C-7058 HECO Honolulu Station U-8 Generator Rotor, 54 MW Westinghouse
May 13, 2003

Rotor Area =	Main Body			
ν = 0.3	in/in			
g = 32.174	lb ft/sec^2 =	386.088	lb in/sec^2	
ρ = 0.284	lb/in^3			
RPM = 3600	rev/min			
ω = 376.9911	rad/sec	INPUT ROTOR DIMENSIONS		
Ri = 3.55	in	Bore Diameter = 7.1	in	
Ro = 13.625	in	Outside Diameter = 27.250	in	

Centrifugal Stress Caused by Main Body of Rotor

A = 19407.4
B = 0.825
C = 0.212121
D = 0.067887
E = 1.0144

Sc = 16242 psi

Stress (Sp) Caused by Outside Rim Load (p) in Generator Rotors
For Turbine Rotors Use 10% of The Rim Load (Sp1) as Blade Load Estimate

F = 949.5974
G = 22.72034
H = 7.67286864
I = 1310.49479

Sp = 21575.17 psi

Sp1 = 2157.517 psi Turbine

p = 10055 psi
Generator

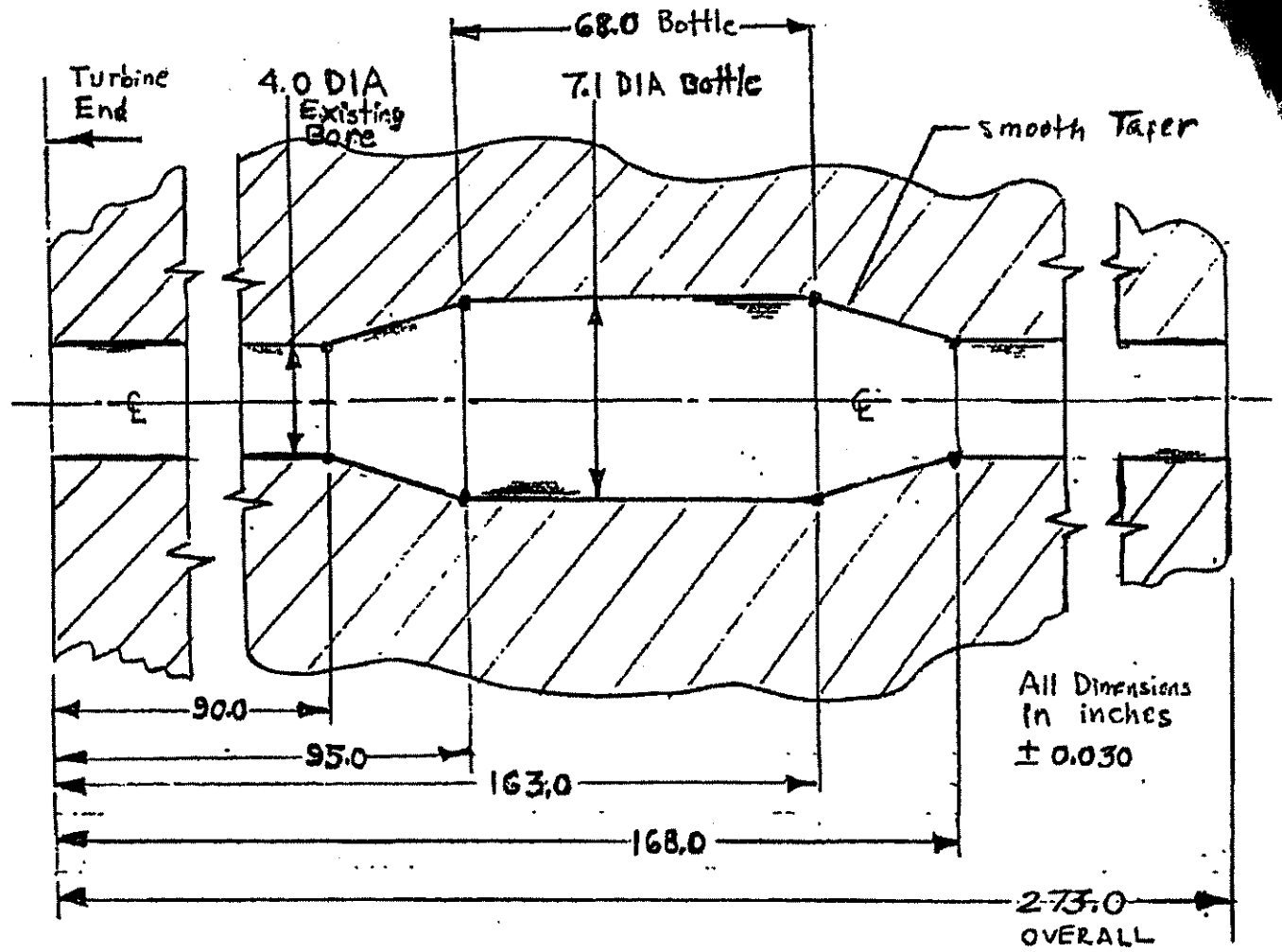
Total Hoop Stress Sh = Sc + (Sp or Sp1)

Sh = 37817 psi Generator

Sh = [illegible]

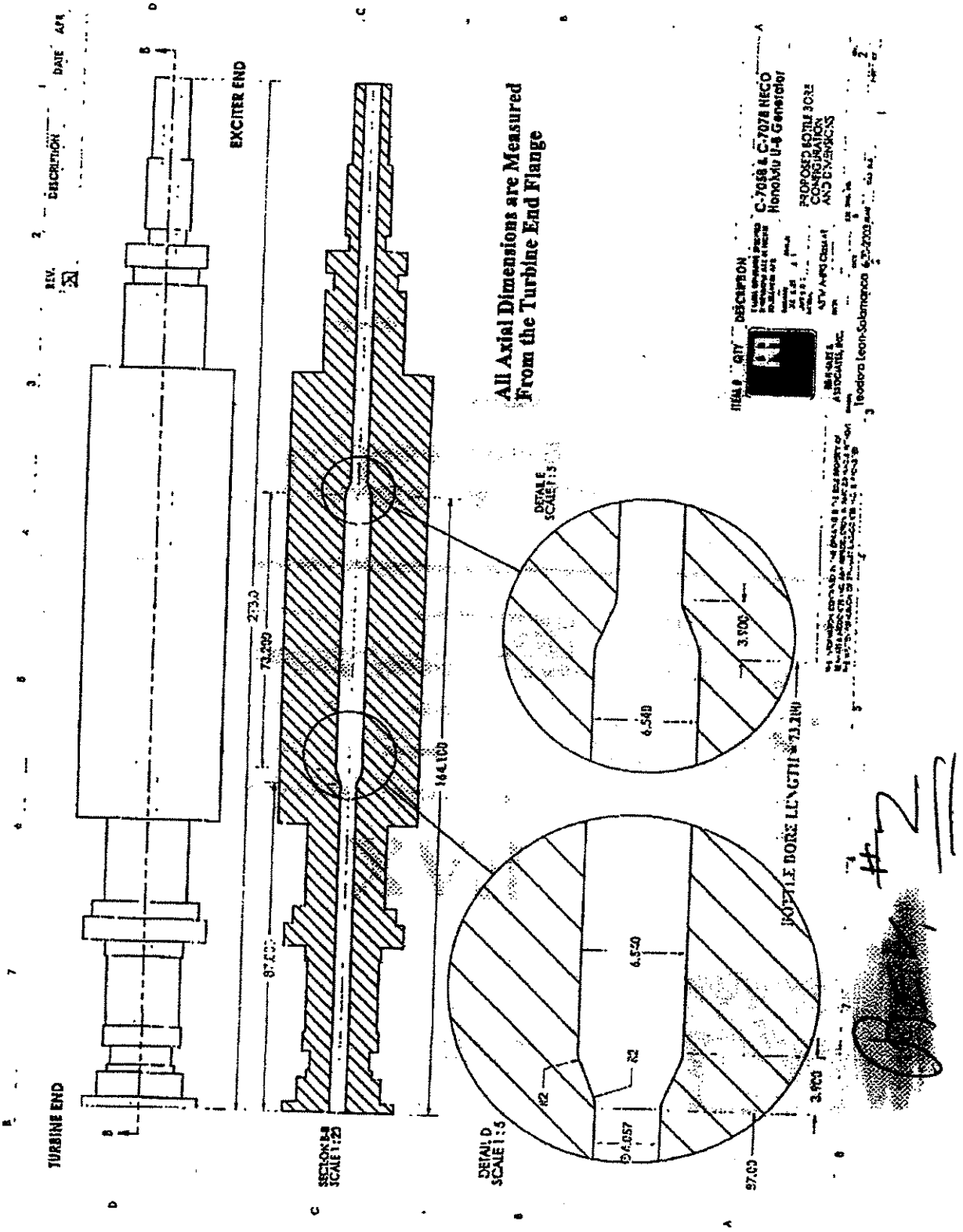
BEFORE REVISED
TO ACCOUNT ADDITIONAL 4"

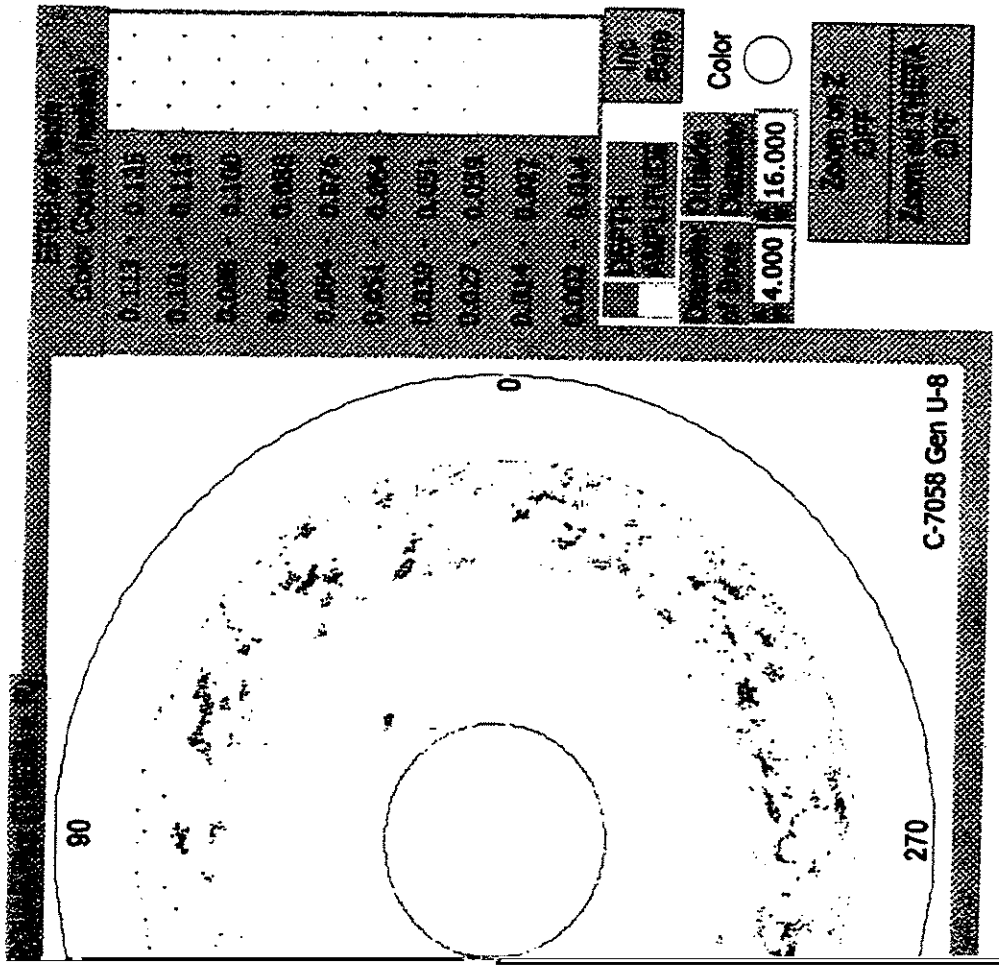
STAEDTLER® No. 937 811E Engineer's Computation Pad



Bottle Bore Dimensions, Hawaii Electric Generator Rotor
5/14/03,

2 of 2


All Axial Dimensions are Measured
From the Turbine End Flange
EXCITER END
TURBINE END
SECTION B-B
SCALE 1:20
DETAIL D
SCALE 1:5
DETAIL E
SCALE 1:5
BOTTLE BORE LENGTH = 73.200
273.0
73.200
164.100
87.000
6.540
3.900
R2
C-7058 & C-7078 NECO
Honolulu U-8 Generator
PROPOSED BOTTLE BORE
CONFIGURATION
AND DIMENSIONS
Teodora Leon-Salamanca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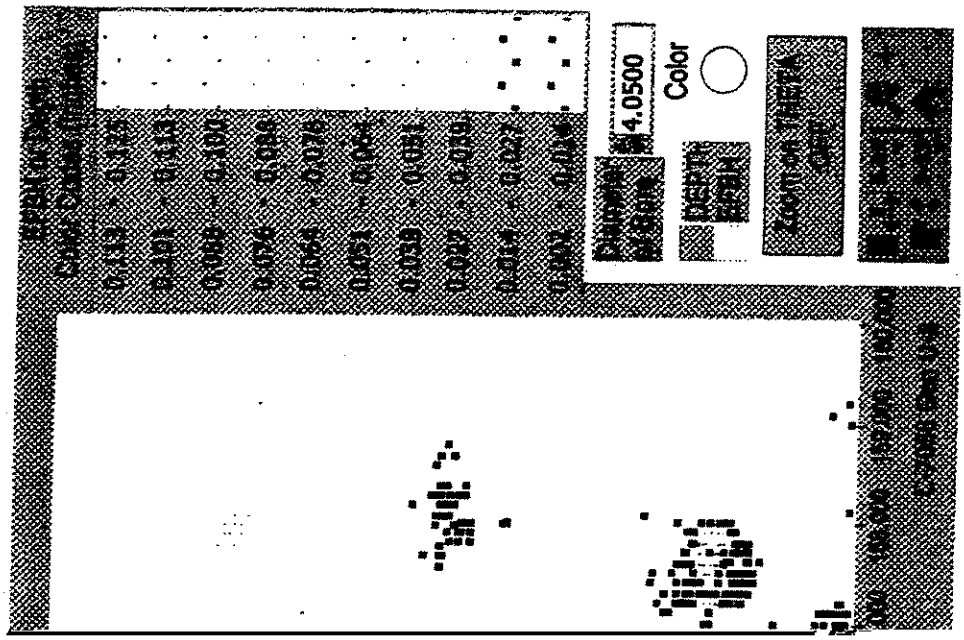
C-7058 Gen U-8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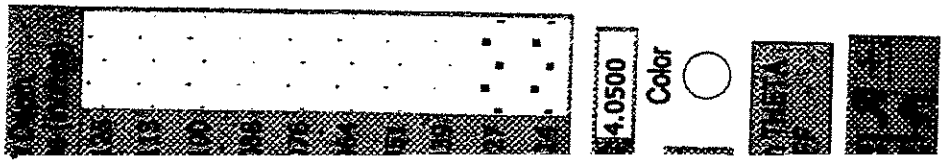
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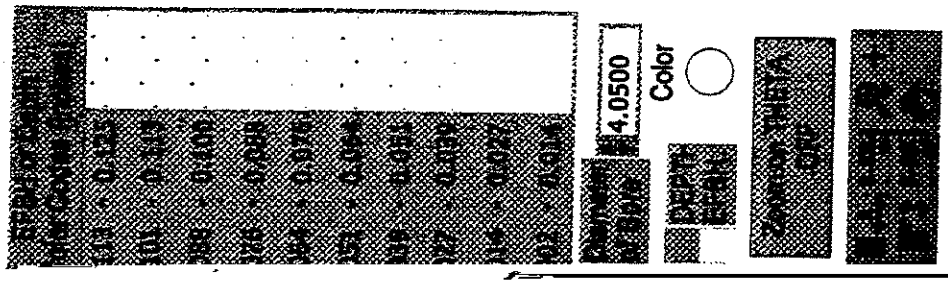
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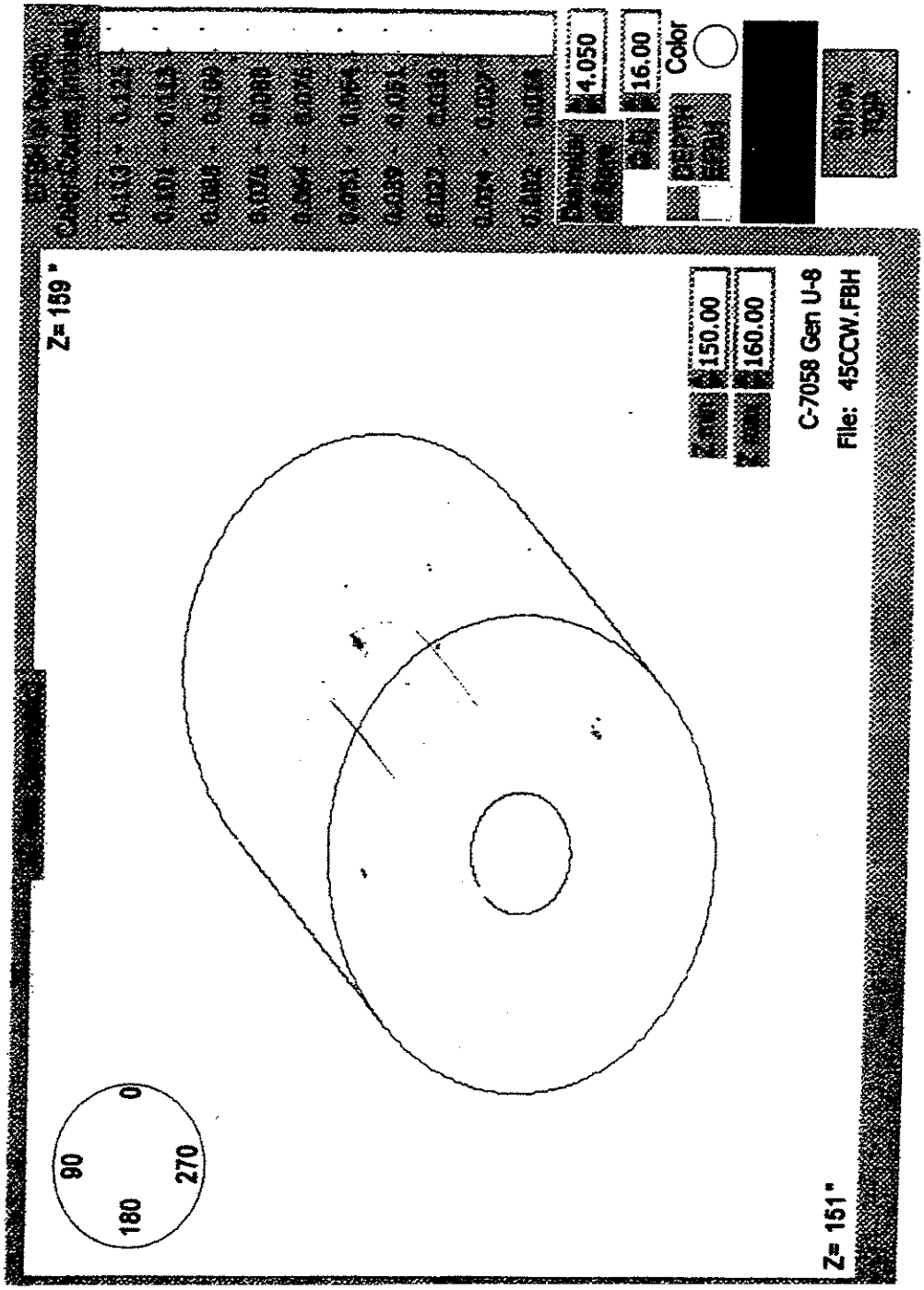

Z= 159 "
150.00
160.00
C-7058 Gen U-8
File: 45CCW.FBH
4.050
16.00
Color
0
90
180
270
Z= 151 "

H #9 – Inter. Out.
Source: J.J. Carberry
Doc. Date: 04/15/03

H9 – Internal Outage: HP, LP & Gen.

Summary:
Performed Bore-Sonic inspections to HP/LP Rotors - no reportable indications - all Rotor Bores excellent condition.
Extensive Blade Replacements occur to this Unit (both HP & LP – see listing).
Extensive NDE/NDT inspections/assessments were performed to HP & LP Sectionals.
Major corrective permanent weld repairs were implemented utilizing Shear-Wave & Special Procedures to the Rear Arch Distribution Chamber portion of the HP cylinder.

Capital Blade Replacement included:
H.P. - Blade Rows that were replaced:
Curtis Rows A &B (R1/R2 Rows), Stages: 2 & 3 the Stationary Rows C1, C2, C3, C4 and the Curtis Intermediate Stator Vanes.
L.P. - Blade Rows that were replaced:
TE/CE L-0 Rows, TE/CE L-1 Rows & TE/CE L-2 Rows (L-0/ L-1/ L-2: 2 Rows ea.).
L.P. Cylinder (capital project): S/S Liners & Seals were installed (extensive machining required).

Corrective Repairs/Replacements Itemized:
Turbine Valves were inspected & rebuilt.
Bearings required rebabbiting.
Horizontal Joint Bolting was replaced.
Installed Expandable Snout Rings (design change).
Performed major repairs to Nozzle Block face & assembly.
Rotor Periphery Inspections performed: all indications removed/repaired.
Steam Chest Governor Valve Seats were seal welded.
Blade Rings: inspected & repaired.
Steam Shields replaced where needed on LP Rotor (10% required).
Line Wire was used for re-installment of both lower cylinder half's.
Balanced: Both Rotors (HP & LP).
*Please refer to Individual Inspection reports for expanded information.
*Root Cause Analysis was performed on HP Cylinder involving heating coil locations, heat/cold sinks, ramp rates, temperature spreads and settings: results and corrective actions were implemented.

Generator:
Generator Rotor received a Bore-Sonic inspection – no reportable indications.
Retaining Rings were inspected (VT, UT – Shear-wave): no reportable indications.
Generator Coolers were inspected: cleaned & tested using eddy current (acceptable).
* See Individual Generator Inspection Reports: for details.

REINHART
& ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION
SPECIALISTS & ENGINEERING SERVICES
P.O. BOX 81545
AUSTIN, TX 78708-1545
TEL. (512) 834-8911/ FAX (512) 834-1266
E-mail: reinhartassc@earthlink.net
Web Site: www.reinhartassoc.com

FIELD REPORT
NONDESTRUCTIVE EXAMINATIONS
OF
UNIT 9 GENERATOR/TURBINE COMPONENTS
AT
HAWAIIAN ELECTRIC COMPANY
HICKS GENERATING STATION

December 18, 2002

R&A C-7028

REINHART
& ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION
SPECIALISTS & ENGINEERING SERVICES
P.O. BOX 81545
AUSTIN, TX 78708-1545
TEL. (512) 834-8911/ FAX (512) 834-1268
E-mail: reinhartassc@earthlink.net
Web Site: www.reinhartassoc.com

December 18, 2002

Mr. Jim Carberry
Hawaiian Electric Company
Waiau Generating Station
475 Kamehameha Hwy.
Pearl City, Hawaii 96782

Subject: Field Report of Nondestructive Examinations Results performed at Honolulu – Hicks Generating Station Unit 9 Generator/Turbine components

Reference: R&A Job No. C-7028

Dear Mr. Carberry:

Reinhart & Associates, Inc. (R&A) performed nondestructive examinations on the Waiau Generating Station Unit 5 Generator/Turbine components during the period of December 6 – 18 , 2002. The nondestructive examinations consisting of boreside NDE of the HP, LP, and Generator rotor, Generator rotor retaining rings NDE, ET on the hydrogen cooler tubes, turbine/valve components NDE, and remote visual and ultrasonic sizing examinations of the lower HP steam chest. All the nondestructive examinations were performed in accordance with various R&A procedures and were conducted by R&A personnel certified in accordance with R&A Procedure PQ-100. This procedure meets or exceeds the requirements set forth in the American Society for Nondestructive Testing Recommended Practice SNT-TC-1A for personnel certification. The examinations provide information for an engineering evaluation of present condition and suitability of the component for future service.

The following is a brief summary of the examination results.

LP Rotor

The boreside VT examination revealed no recordable indications.
The boreside WFMT examination revealed no recordable indications.
Boreside ultrasonic examinations (UT) revealed several point source reflectors.
All the ultrasonic reflectors did not demonstrate any evidence of significant radial or circumferential extent (crack-like characteristics), and in their present state are not considered to be of major significance. Further analysis of the observed reflector will be performed at R&A lab.

Generator Field Rotor

The boreside VT examination revealed no recordable indications.
The boreside WFMT examination revealed no recordable indications.
Boreside ultrasonic examinations (UT) revealed no recordable indications.

Life time analysis

A short-form engineering analysis of the HP, LP, and Generator Field rotors will be performed to evaluate the turbine's current condition and suitability for future service. The analysis is based on the results from the following items:

1. Results from boreside NDE performed by R&A.

2. Results of elemental analysis and alloy identification performed by Metallurgical Lab, using rotor bore shaving material samples. The alloy specification is used to retrieve the published material properties.

3. Linear mechanical and thermal stress analysis results using published mathematical equations.

4. Linear elastic fracture mechanics principles to calculate the remaining life or start/stop cycles.

The region of greatest concern especially in a hollow rotor is at the surface of the bore, where the highest mechanical stresses exist during service. Due to the geometrical nature of a bore, the hoop (or circumferential) stresses become the dominant factor in a rotor analysis. It is the hoop stresses that cyclically (one cycle = one start/stop) operates on a bore surface connected flaw causing it to propagate, eventually leading to rotor failure. Therefore, after determining the maximum hoop stresses in the rotor, R&A calculated the remaining life of the rotor using linear elastic fracture mechanics principles.

Final report will include all the pertinent calibration and examination data, tabulated ultrasonic examination results data, depicting the radial, axial, and circumferential position of all reflectors, as well as calculated Equivalent Flat Bottom Hole (EFBH) diameters.

RETAINING RINGS

The Hicks Generating Station Unit 9 generator retaining rings were painted. Before any

inspections were done, the paint was removed using medium Scotch Bright pads from 3M mounted on a hand held electric buffer. The ferro-magnetic rings were in-place on the rotor with the rotor removed from the stator. Prior to performing any of the examinations, the rings were masked off to prevent any contamination of the rotor windings. All the hydrogen vent holes were also plugged with rubber stoppers.

The generator retaining rings were examined by visual (VT), wet fluorescent magnetic particle (WFMT), material hardness, manual and mechanized ultrasonic (UT) test methods. The visual examination of the exterior surfaces revealed no major mechanical damage on either the turbine and exciter end rings. No other abnormal conditions were noted on the outside diameter surface of either ring. The WFMT examinations revealed no pitting or linear indications on the OD surface of either rings. The ultrasonic straight beam volumetric inspection revealed no indications, and no crack-like indications were detected by the mechanized shear wave examinations.

Visual Examinations

The visual examination of the exterior no major mechanical damage on the surfaces of either. No other abnormal conditions were noted on the OD surface of either ring.

Hardness Readings

Hardness readings were performed on both rings using a TIME Instruments portable hardness

testing with ultrasonics.

Mechanized shear wave ultrasonic inspection methods were used to examine the inside surface of the retaining rings. Scanning was performed by means of a microprocessor controlled mechanical scanner on a rigid circular track. Ultrasonic search units optimized to interrogate the ring ID and near ID ring surface, in conjunction with a computerized data acquisition system, mapped the ID of the rings. The rate of circumferential scanning was maintained at 2.0 inches per second. Axial indexing was maintained at 0.089" or less per revolution for the main body scans and 0.030" or less for the step area.

No recordable indications were noted in either retaining ring during these examinations.

Final disposition of the retaining rings is the responsibility of the Client.

HYDROGEN COOLER TUBES

The multifrequency eddy current examinations were performed utilizing a R/D Tech - TC 5700 instrument and a bobbin coil. R/D Tech is a P/C based multi-frequency Eddy Current System equipped with manual/automatic data analysis software. Eddy current examinations were performed on the Unit 9 Hydrogen Cooler tubes. The Hydrogen Cooler contains two boxes: Left and Right (looking from the Generator end). Figures 13 and 14 illustrate Hydrogen Cooler boxes and numbering system. Of the **156** tubes, 155 were examined by ET examinations. One (1) tube was obstructed (Right-Upper R2, T3). This tube was fiber-optic examined, and this visual revealed a dent at approximately 50 inches from the Generator end. A VHS copy of these remote visuals will be included in the final report. The finned tubes are made of Admiralty Brass material, 1" O.D. and 18 BWG (0.049" wall thickness). The ASME standard used for the calibration of the eddy current system was made out of Admiralty Brass tube segment (1" O.D.- 18 BWG /0.049" wall thickness) containing flat bottom holes, through wall hole, ID ring, and OD ring. The eddy current examinations were conducted using four- (4) discrete frequencies on the eight- (8) separate channels. All the recorded data will be analyzed in any combination of the primary channels. Internal reference differential type bobbin coils were utilized for ET examinations.

The Eddy current (ET) examinations of the Hydrogen Cooler tubes revealed no recordable indications.

REMOTE VISUAL EXAMINATIONS AND ULTRASONIC SIZING OF THE LOWER HP NOZZLE STEAM CHEST

Remote visual examinations and ultrasonic examinations were performed on the lower HP nozzle steam chest. The fiber-optic visual examinations revealed numerous linear indications on the I.D. of the steam chest. Many of the indications can be seen visually though the steam inlet ports. An ultrasonic examination was performed in accordance with R&A sizing procedure UT-930 Rev. 0. This procedure outlines the methodology and techniques for performing ultrasonic charterization of planer flaws. The lower HP steam chest has numerous linear indications with the more sever starting just below the left side inlet port (looking from governor towards generator) and running circumferential to the right outlet port. The wall thickness of the HP cylinder at the nozzle steam

chest is 3.10 inches. The deepest indication was found to be 2.01 inches deep. This means that the remaining ligament (good material) is 1.09 inches. The flaw average depth is 1.54 inches in depth, with a remaining ligament of 1.67 inches. Attachment 1 includes a field sketch of the indication. A copy of the VHS recordings will be submitted with the final report.

TURBINE COMPONENTS NDE

LP Rotor Periphery

Wet fluorescent magnetic particle (WFMT) examinations were performed in two (2) directions on the periphery of the LP rotor. WFMT examinations utilizing the draped coil method were performed to detect axially and radially oriented surface discontinuities. WFMT examinations revealed one linear indication on L-0, Governor end blade #25.

Examinations performed on the periphery of the LP rotor revealed blades steam erosion, cracked satellites, and foreign impact damage on the L-0, L-1, and L-2 stages. Figures 1 through 10 illustrate the damage.

UT was performed on the L-2 blade tennons. Two (2) tennons were on the governor end were found to have indications. A detailed UT data sheet is included in Attachment 3.

All data records for the above examinations are included in Attachment 3.

HP Rotor Periphery

Wet fluorescent magnetic particle (WFMT) examinations were performed in two (2) directions on the periphery of the HP rotor. WFMT examinations utilizing the draped coil method were performed to detect axially and radially oriented surface discontinuities. WFMT examinations revealed three (3) recordable indications.

VT examinations performed on the periphery of the HP rotor revealed steam erosion and foreign material impact damage to the leading edges of the blading.

All data records for the above examinations are included in Attachment 3.

Blade rings NDE

WFMT revealed crack like indication and severe blade erosion on the Curtiss stage.
WFMT and VT examinations of the blade rings, dummy rings, and steam glands revealed no recordable indications.

Examination results are included in Attachment 3.

HP Cylinder, Base and Cover

WFMT and VT examinations were performed on the HP cylinder cover and base horizontal joint,

Examination results are included in Attachment 3.

Governor Valves

Liquid Penetrant (PT) examinations were performed on the valve seats and seal welds. PT examinations on the Governor valve seat revealed no recordable indications. PT examinations performed on the Governor valve seal welds revealed lack of fusion on the side of the welds. Examination results are included in Attachment 3.

Bolts, Studs

UT examinations performed on a total of 88 studs revealed no recordable indications. These included HP, LP horizontal joint studs, and valves studs, coupling bolts. A complete itemization of the studs and bolts that were examined ultrasonically is included in Attachment 3.

A final report will follow. This report will include photographs, all raw field data, procedures utilized in the performance of the examinations, and all other pertinent data. If you have any questions regarding the report, please call. We look forward to working with HECO again in the future

Sincerely,

Stan Kaminski
Senior Inspection Specialist

Robert Kaminski
Inspection Specialist

Michael Monaco
NDE Systems Specialist

Richard Whitaker
Inspection Specialist

Larry Jacobson
Inspection Specialist

FIGURES

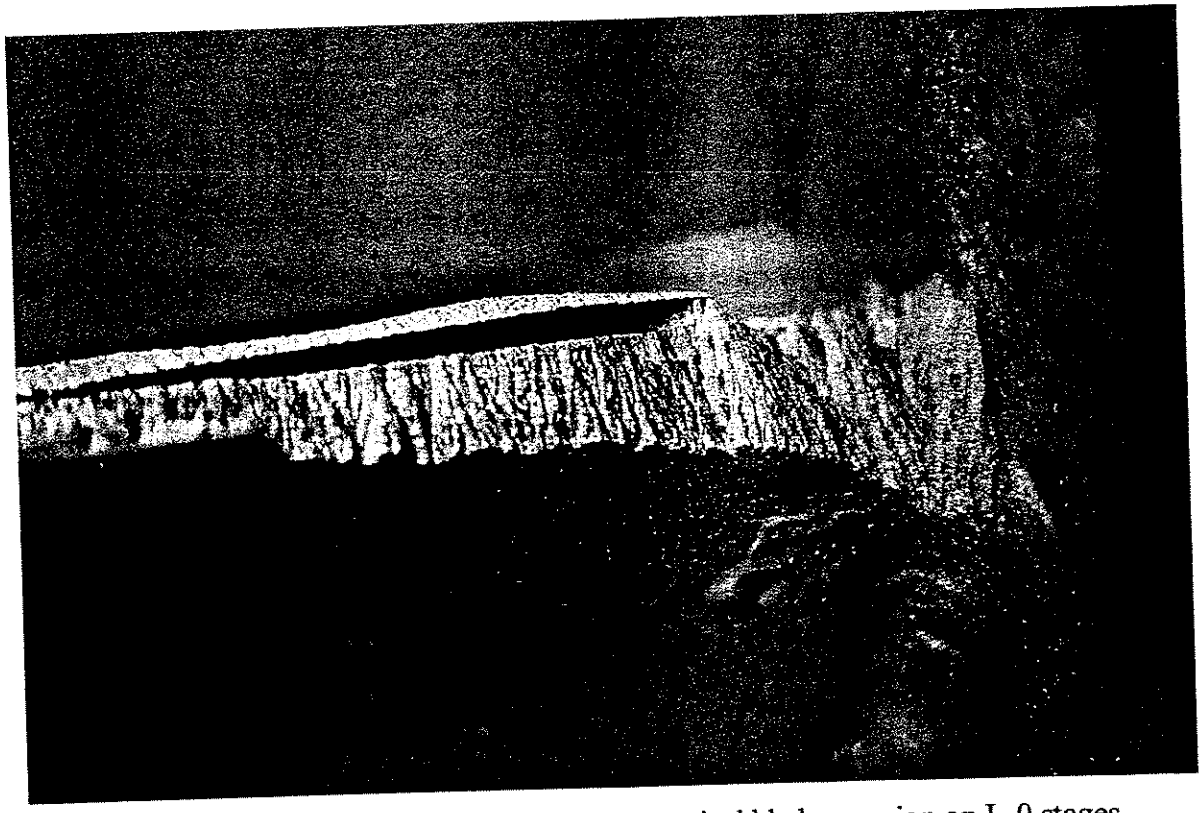


Figure 1. Honolulu Station Unit 9, LP Rotor – typical blades erosion on L-0 stages.

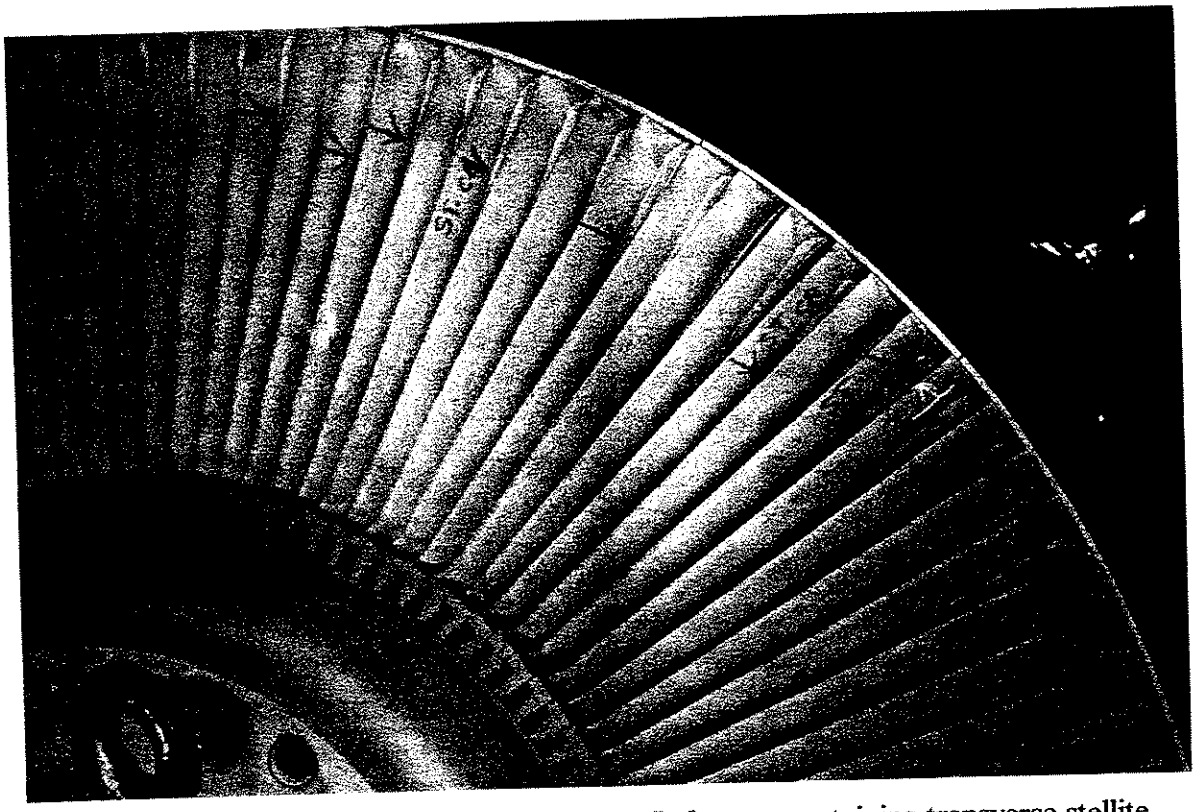


Figure 2. Honolulu Station Unit 9, LP Rotor – L-0 stage containing transverse stellite cracking at arrows.

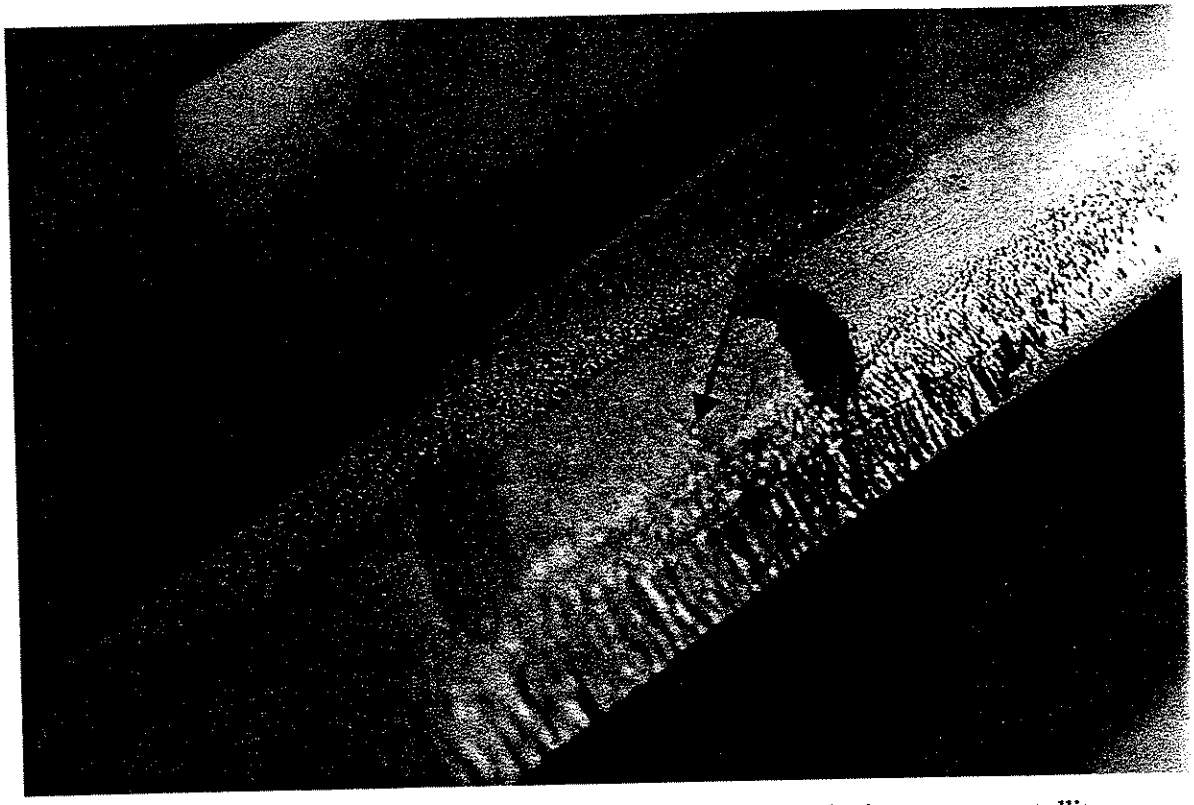
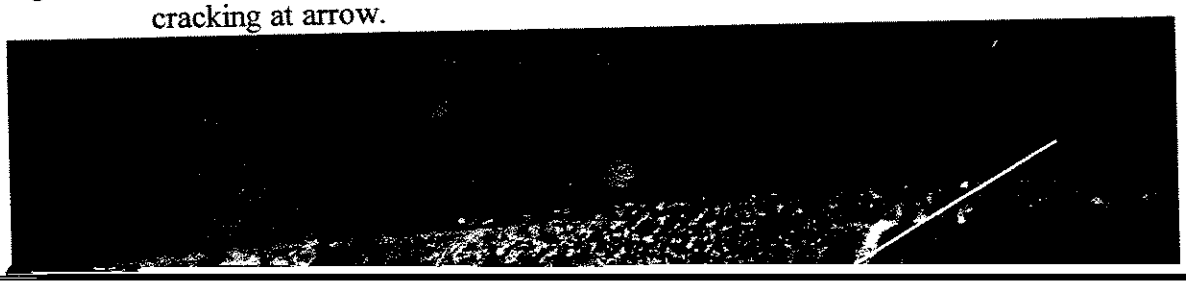
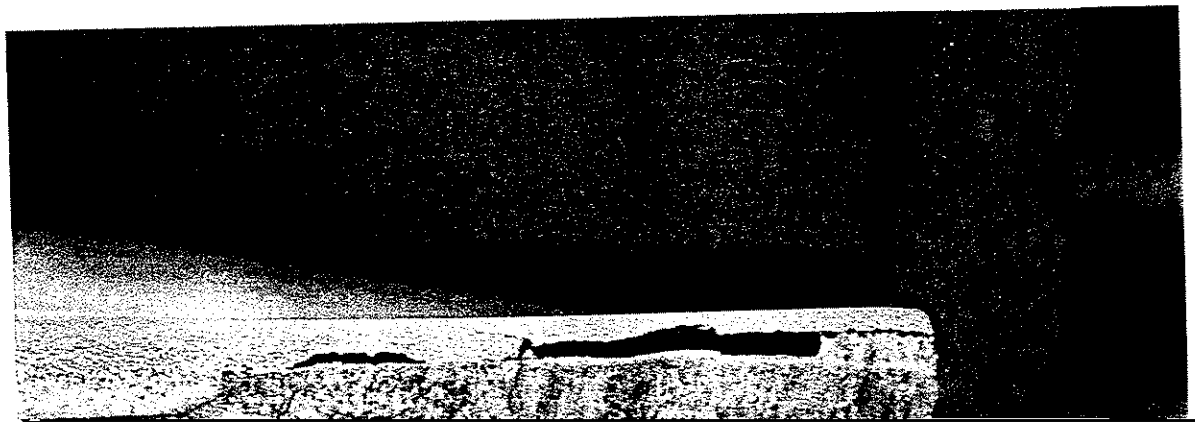
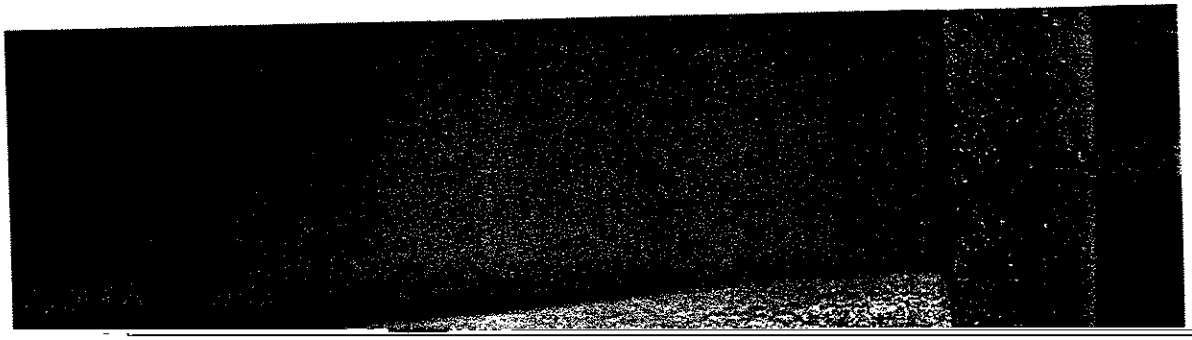


Figure 3. Honolulu Station Unit 9, LP Rotor, L-0 stage - typical transverse stellite cracking at arrow.







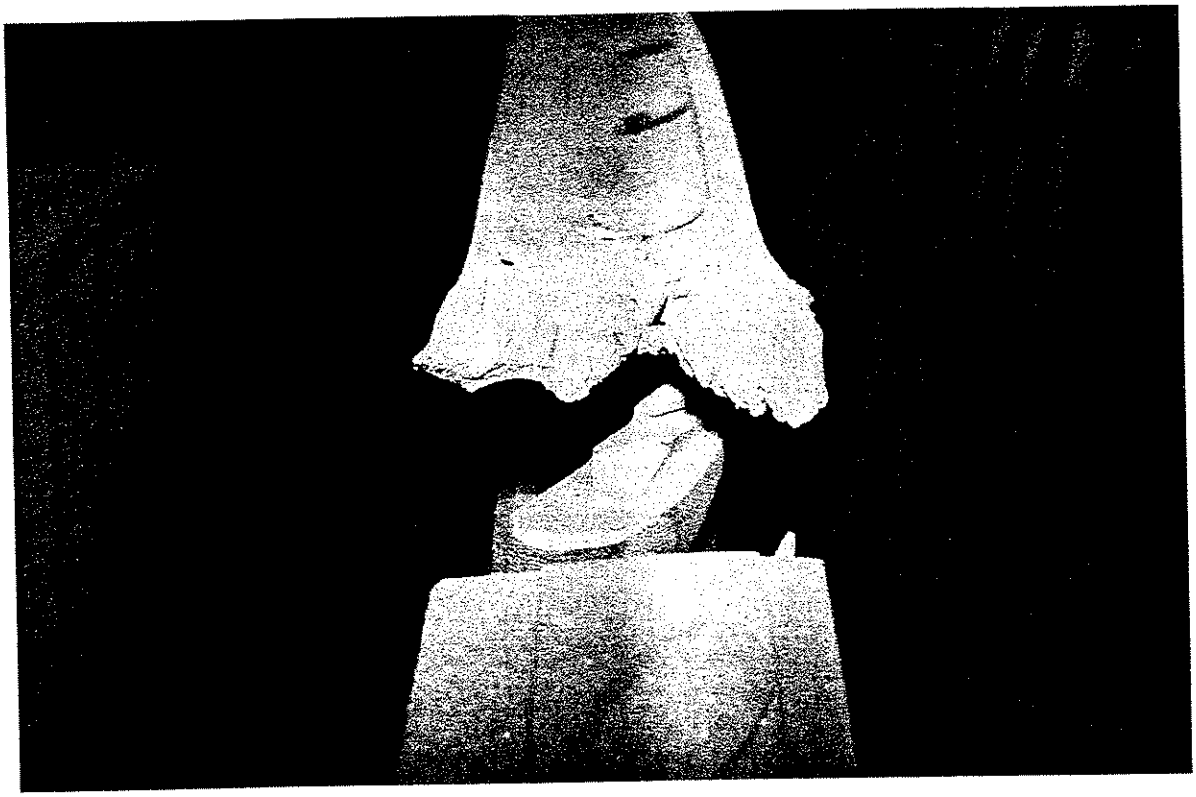


Figure 9. LP Rotor, L-2 stage, Generator End – damage of the shroud cover.

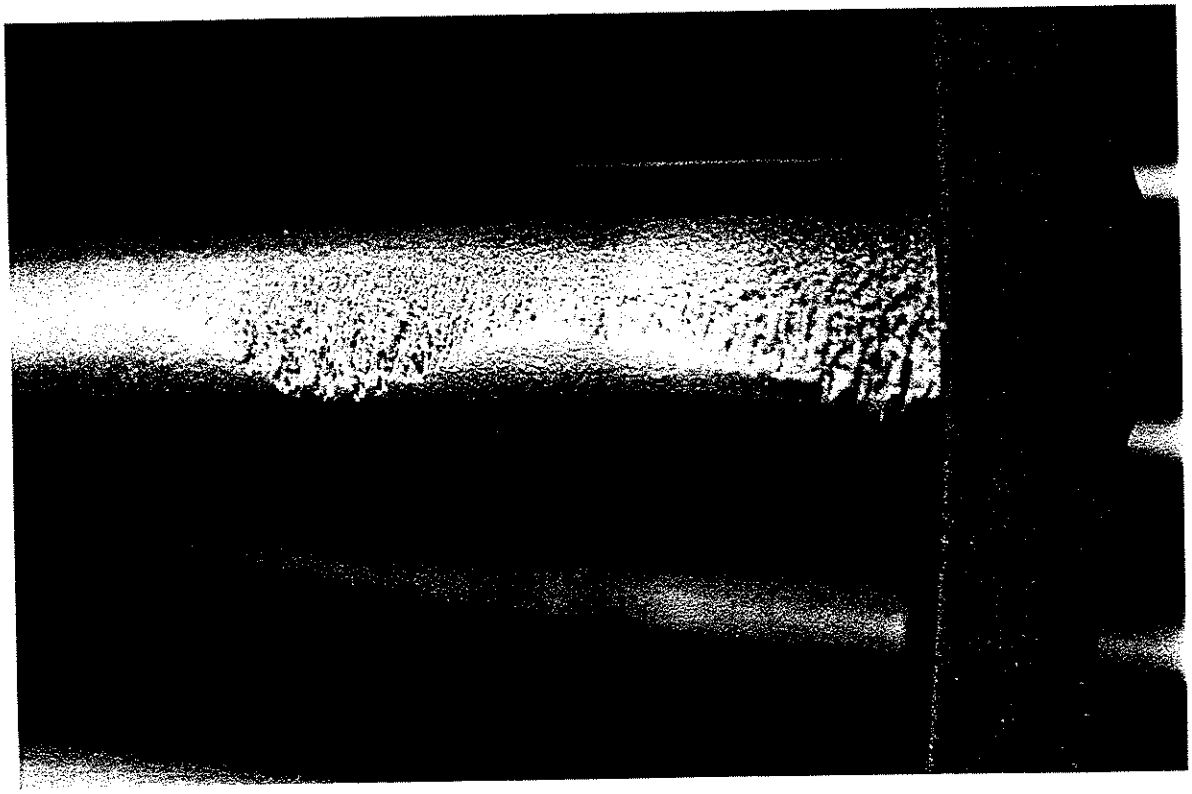
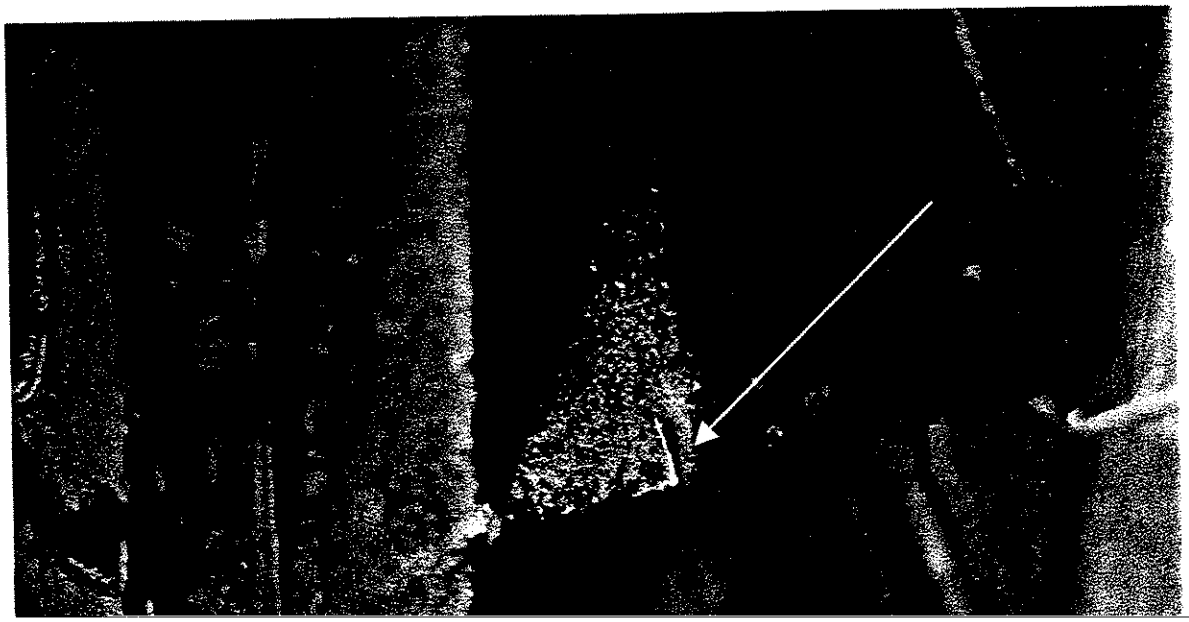
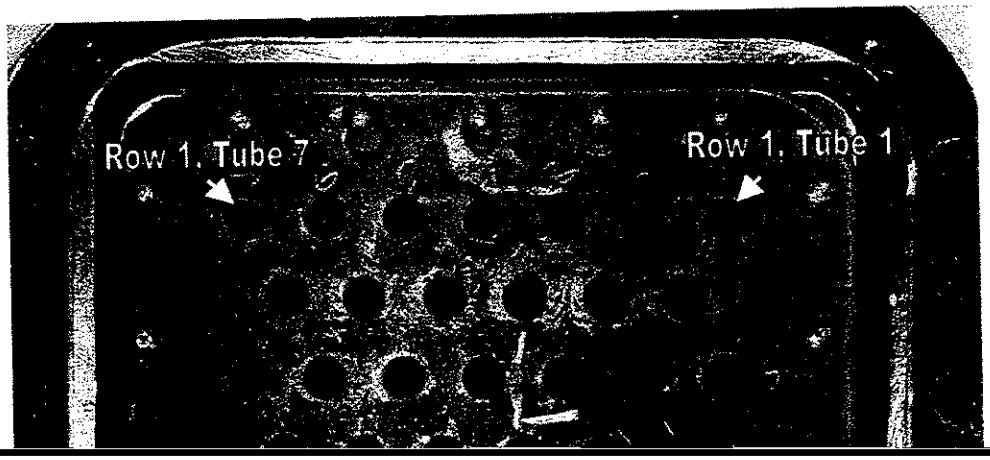


Figure 10. Honolulu Station Unit 9, LP Rotor – typical blades erosion on L-3 stages.




Row 1, Tube 7
Row 1, Tube 1

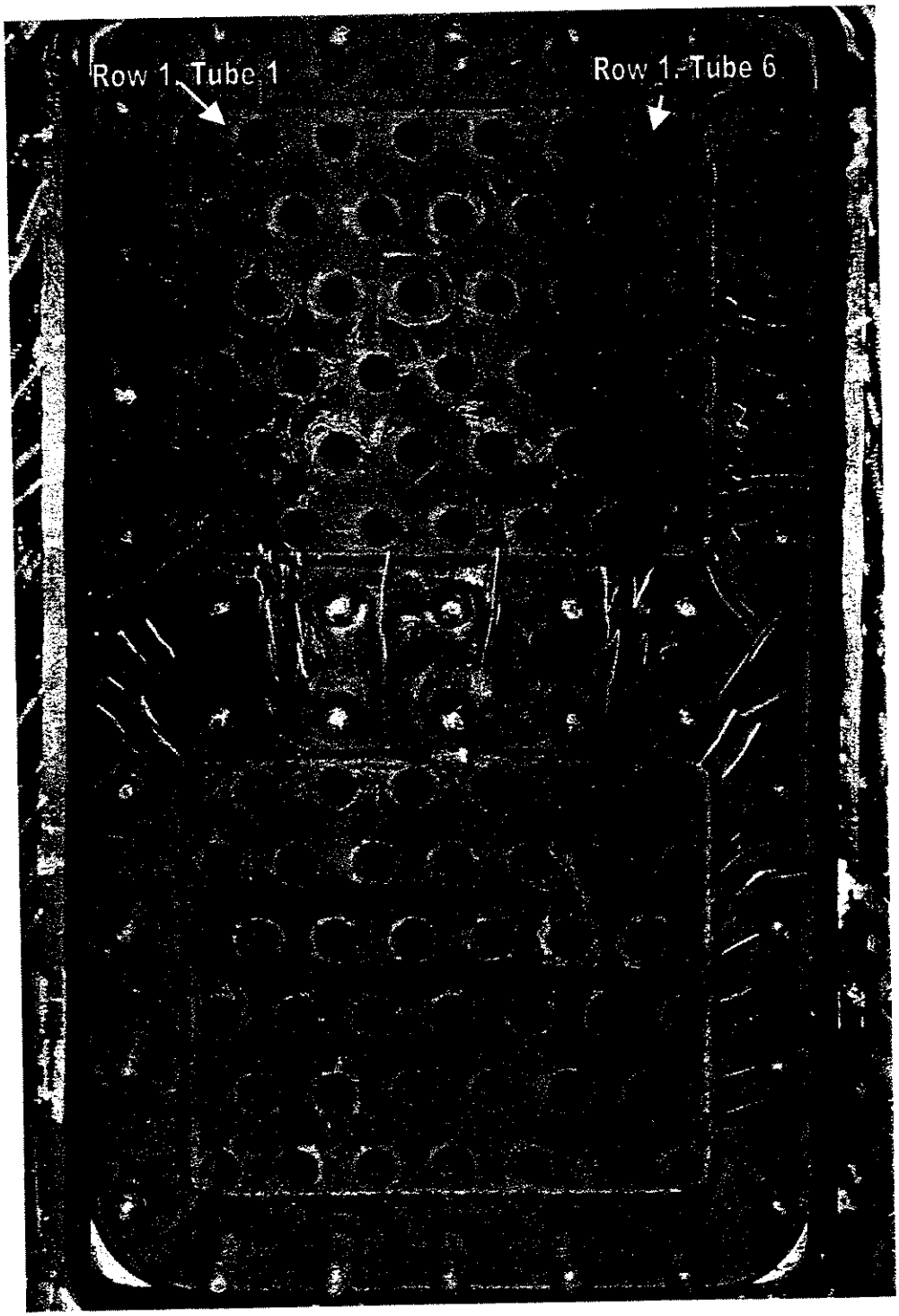


Figure 14. Honolulu Unit 9 Generator Hydrogen Cooler, Right side (looking from Generator end). Rows are numbered from top-to-bottom. Tubes are numbered from left-to-right.

ATTACHMENT 1

RETAINING RINGS

UT AND WFMT DATA SHEETS

REINHART
& ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION
SPECIALISTS
P.O BOX 9962, SUITE 303
AUSTIN, TEXAS 78766
(512) 934-9911 FAX# (512) 934-1200

GENERAL ULTRASONIC EXAMINATION RECORD

Project No:	Site:	Date:	Time:	Sheet No:
C-7028	HAWAIIAN ELECTRIC COMPANY - HICKS GENERATING STATIO	12/16/02		Cal. Sheet No:

Component:	Subassembly:	Identification:
UNIT 9 GENERATOR FIELD	RETAINING RINGS	

Examiner: L. JACOBSON	SNT Level: II	Procedure	Angle	0	45	60	70	Surface Preparation:
Examiner: M. MONACO	SNT Level: III	No.: UT-915	Scan	VARIES	VARIES	N/A	N/A	AS BUFFED
Examiner:	SNT Level:	Rev.: 0	dB	dB				

Comments:

Results:

ULTRASONIC EXAMINATIONS CONDUCTED ON THE GENERATOR FIELD RETAINING RINGS REVEALED NO RECORDABLE INDICATIONS.

State Exam Area Limitations (If Any):

Reviewed By:	SNT Level:	Date:

Form #302 - 4/8/93

REINHART
& ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION
SPECIALISTS
P.O BOX 9002, SUITE 303
AUSTIN, TEXAS 78766
(512) 834-9911 FAX# (512) 834-1266

MAGNETIC PARTICLE EXAMINATION RECORD

Project No.: C-7028	Site: HAWAIIAN ELECTRIC COMPANY HICKS GENERATING STATION	Date: 12/10/02	Time:
Exam Area: System/Component) UNIT 9, GENERATOR FIELD COMPONENTS	Line/Subassembly: RETAINING RINGS	Identification:	

Examiner: L.JACOBSON	SNT Level: : II	Procedure: R&A	Material	Surface Finish: BUFFED
Examiner: M. Monaco	SNT Level: III	No.: 704	Brand: MAGNAFLUX Type: MAGNAGLO 14AM Batch No.: 02B087	Surface Temp.: AMBIENT
Examiner:	SNT Level:	Rev.: 2	Mixed With: PRE-MIXED Batch No.: N/A	U.V. Lamp: ARDROX UA-1025

Material Application		Current Type		Magnetization				
Dusting	[ ]	AC	[X]	Machine Type	YOKE			S/N: 3
Spraying	[X]	HWAC	[ ]	Type of Conductor	N/A	Coil Dia.:	N/A	Output: 1500
Flooding	[ ]	DC	[ ]	Current Level	N/A	Prod Spacing	N/A	

Results:

WET FLUORESCENT MAGNETIC PARTICLE EXAMINATIONS PERFORMED ON THE GENERATOR FIELD RETAINING RINGS REVEALED NO RECORDABLE INDICATIONS:

Reviewed By:	SNT Level:	Date:	Page of

FORM #204 - 11/4/95

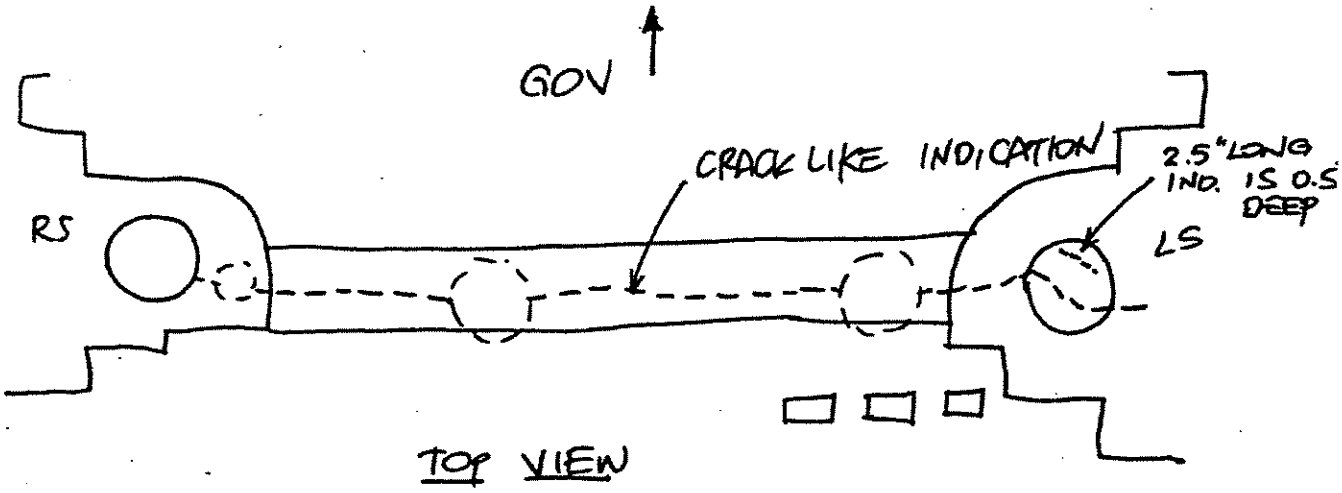
ATTACHMENT 2

HP LOWER STEAM CHEST

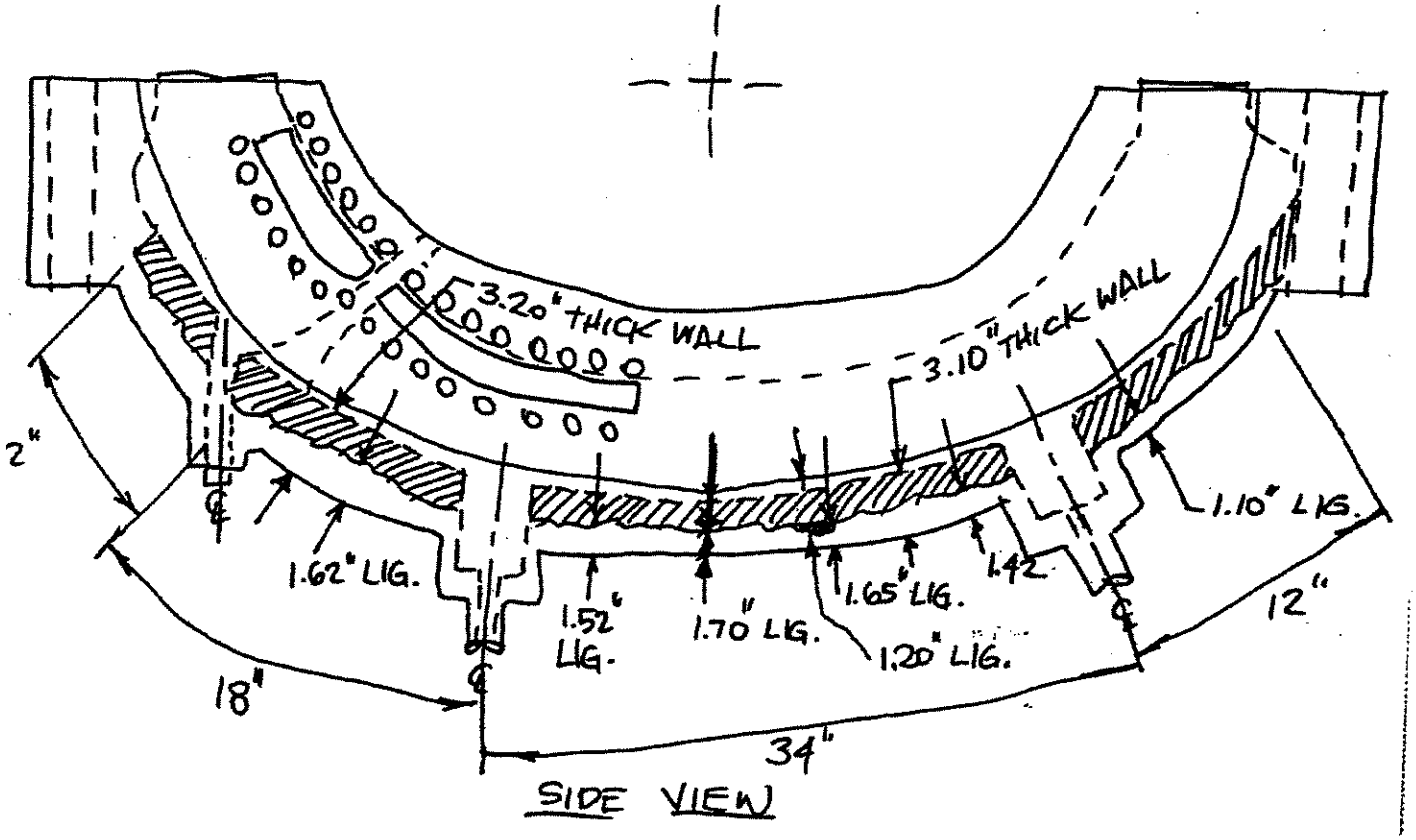
UT FIELD SKETCH

UT FLAW SIZING
FIELD SKETCH

12-17-02



LIGAMENT = REMAINING GOOD METAL SIZED FROM O.D. OF HP CYLINDER.



ATTACHMENT 3

TURBINE COMPONENTS DATA SHEETS

N RECORD

Date: 12/17/02	Time:

tion:

	Surface Finish: OXIDE BLASTED
	Surface Temp.: AMBIENT
	U.V. Lamp: ARDROX UA-1025
	S/N: 3
	Output: 1500

SR, LOWER HALF REVEALED

BOLT HOLE AND RADIAL FIT.

I.

	Page of

REINHART
& ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION SPECIALISTS
P.O BOX 9002, SUITE 203
AUSTIN, TEXAS 78766
(512) 834-6911 FAX# (512) 834-1266

GENERAL ULTRASONIC EXAMINATION RECORD

Project No: C-7028	Site: HAWAIIAN ELECTRIC COMPANY - HICKS GENERATING STATIO					Date: 12/11/02		Time:	Sheet No:	
									Cal. Sheet No:	
Component: UNIT 9 LP TURBINE ROTOR			Subassembly: L-2 TENNONS GENERATOR AND GOVERNOR ENDS						Identification:	
Examiner: L .JACOBSON	SNT Level: II	Procedure	Angle	0	45	60	70	Surface Preparation:		
Examiner: M. MONACO	SNT Level: III	No.:	Scan	63	N/A	N/A	N/A	AS IS		
Examiner:	SNT Level:	Rev.:	dB	dB						
Comments:										

Results:

ULTRASONIC EXAMINATIONS CONDUCTED ON THE GENERATOR AND GOVERNOR END L-2 TENNONS. THE UT REVEALED TWO (2) RECORDABLE INDICATIONS. THE FIRST INDICATION IS LOCATED CORRESPONDING TO L-0 BLADE #118 ON THE GOVERNOR END. THE SECOND INDICATION CORRESPONDS TO L-0 BLADE #6 ON THE GOVERNOR END.

State Exam Area Limitations (If Any):

Reviewed By:

SNT Level:

Date:

Form #302 - 4/8/93

NC.
N

MAGNETIC PARTICLE EXAMINATION RECORD

AN ELECTRIC COMPANY/HONOLULU GENERATING STATION	Date: 12/6/02	Time:
Line/Subassembly: LP ROTOR PERIPHERAL EXAM.	Identification:	

: II	Procedure: R&A	Material Brand: MAGNAFLUX	Surface Finish: OXIDE BLASTED
II	No.: MT707	Type: MAGNAGLO 14AM Batch No.: 02B087	Surface Temp.: AMBIENT
II	Rev.: 6	Mixed With: PRE-MIXED Batch No.: N/A	U.V. Lamp; ARDROX UA-1025
Magnetization e Type MAGNAFLUX P-530 S/N 731511 Conductor N/A Coil Dia.: 6 FEET Level 3600 A/TURNS Prod Spacing N/A			S/N: 3 Output: 1500

PARTICLE EXAMINATIONS PERFORMED ON THE PERIPHERY OF THE LP ROTOR REVEALED 3/4"
HE INBOARD SIDE OF THE BLADE #25 LEADING EDGE, L-O STAGE, GOVERNOR END (FIGURE 4).

MED ON THE PERIPHERY OF THE LP ROTOR REVEALED SEVERE STEAM EROSION TO THE LEADING
-1, L-2 AND L-3 STAGES. IN ADDITION, STELLITE CRACKING WERE FOUND ON THE FOLLOWING

2, 23, 26, 28, 32, 34, 40, 50, 51, 52, 56, 59, 100.
IE WITH L-0 BLADE # 31 AND 32.
20, 23, 24, 26, 27, 28, 37, 40, 42, 46, 47, 51, 56, 58, 108.
E, CRACKED STELLITE ON ONE BLADE IN LINE WITH L-0 BLADE #54.
E, BROKEN SHROUD COVER IN LINE WITH L-0 BLADE #68.
E STRIP IN LINE WITH L-0 BLADE #19.

ATE TYPICAL EROSION DAMAGE, IMPACT DAMAGE AND STELLITE CRACKING.

	SNT Level:	Date:	Page of

REINHART
& ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION
SPECIALISTS
P.O BOX 9662, SUITE 303
AUSTIN, TEXAS 78766
(512) 834-8011 FAX# (512) 834-1266

MAGNETIC PARTICLE EXAMINATION RECORD

Project No.: C-7028	Site: HAWAIIAN ELECTRIC COMPANY/ HICKS STATION	Date: 12/10/02	Time:
Exam Area: System/Component) UNIT9, HP ROTOR	Line/Subassembly: HP ROTOR PERIPHERAL EXAM.	Identification:	

Examiner: R. WHITAKER	SNT Level: II	Procedure: R&A	Material: Brand: MAGNAFLUX	Surface Finish: OXIDE BLASTED
Examiner: R. KAMINSKI	SNT Level: II	No.: MT707	Type: MAGNAGLO 14AM Batch No.: 02B087	Surface Temp.: AMBIENT
Examiner: S. KAMINSKI	SNT Level: III	Rev.: 6	Mixed With: PRE-MIXED Batch No.: N/A	U.V. Lamp: ARDROX UA-1025

Material Application		Current Type		Magnetization				
Dusting	[ ]	AC	[ ]	Machine Type	MAGNAFLUX P-530 S/N 731511			S/N: 3
Spraying	[X]	HWAC	[ ]	Type of Conductor	N/A	Coil Dia.:	6 FEET	Output: 1500
Flooding	[ ]	DC	[X]	Current Level	3000 A - 4400 A	Prod Spacing	N/A	

Results:

WET FLUORESCENT MAGNETIC PARTICLE EXAMINATIONS PERFORMED ON THE PERIPHERY OF THE HP ROTOR REVEALED THREE (3) RECORDABLE INDICATIONS. THESE INDICATIONS ARE LOCATED ON THE TRAILING EDGES OF THE CURTIS STAGE BLADING. FIGURES 11 AND 12 ILLUSTRATE THE INDICATIONS.

VISUAL EXAMINATIONS PERFORMED ON THE PERIPHERY OF THE HP ROTOR REVEALED STEAM EROSION AND FOREIGN MATERIAL IMPACT DAMAGE TO THE LEADING EDGES OF THE BLADING.

Reviewed By:	SNT Level:	Date:	Page of

FORM #204 - 11/4/95

REINHART
& ASSOCIATES, INC.
NONDESTRUCTIVE EVALUATION
SPECIALISTS
P.O BOX 5002, SUITE 303
AUSTIN, TEXAS 78705
(512) 334-0011 FAX# (512) 334-1200

GENERAL ULTRASONIC EXAMINATION RECORD

Project No: C-7028	Site: HAWAIIAN ELECTRIC COMPANY/WAIAU POWER PLANT				Date: 10/10/02	Time:		Sheet No:	
								Cal. Sheet No:	
Component: UNIT 9, STUDS AND BOLTS		Subassembly: STUDS						Identification:	
Examiner: R. WHITEKER	SNT Level: II	Procedure	Angel	0	45	60	70	Surface Preparation: AS FOUND	
Examiner:	SNT Level:	No.: UT-911	Scan						
Examiner:	SNT Level:	Rev.:	dB	55-70 dB	n/a				
Comments:									

Results: ULTRASONIC EXAMINATIONS WERE PERFORMED FROM THE END OF THE STUDS UTILIZING SONIC 137 INSTRUMENT EQUIPPED WITH 1- 5 MHz LONGITUDINAL TRANSDUCERS. THE FOLLOWING STUDS WERE EXAMINED:

1. 40 HP HORIZONTAL JOINT STUDS - NO RECORDABLE INDICATIONS.
2. STEAM CHEST STUDS - INSPECTION NOT PERFORMED ON THE STUDS DUE TO GROOVE IN THE TOP.

State Exam Area Limitations (If Any):

Reviewed By: | SNT Level: | Date:

Form #302 - 4/8/93

REINHART
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NONDESTRUCTIVE EVALUATION SPECIALISTS
P.O BOX 9602, SUITE 303
AUSTIN, TEXAS 78766
(512) 834-9011 FAX# (512) 834-1266

LIQUID PENETRANT EXAMINATION RECORD

Project No.: C-7028	Site: HAWAIIAN ELECTRIC COMPANY HICKS GENERATING STATION	Date: 12/17/02	Time:
System/Component: UNIT 9, STEAM CHEST	Line/Subassembly: GOVERNOR VALVE SEAT AND SEAL WELDS	Identification:	

Examiner: L. Jacobson	SNT Level: II	Procedure: R&A	Surface Finish: Oxide Blasted	Comments:
Examiner: R. Kaminski	SNT Level: I	No.: PT-602	Surface Temp.: AMBIENT	NRI=NO RECORDABLE INDICATIONS.
Examiner:	SNT Level:	Rev.: 0	Dwell Time: 15 MIN.	

Cleaner/Remover:	Penetrant:	Developer:	Black Light:
Brand: MAGNAFLUX	Brand: MAGNAFLUX	Brand: MAGNAFLUX	U.V. Lamp: N/A
Type: SKC-S	Type: SKL-WP	Type: SKD-S2	S/N: N/A
Batch No.: 01EO2K	Batch No.: 01EO92	Batch No.: 01GO7K	Output: N/A

RESULTS:

RED VISIBLE PENETRANT (PT) EXAMINATIONS PERFORMED ON THE STEAM CHEST GOVERNOR VALVE SEAT, SEAL WELDS REVEALED.:
1. VALVE SEATS - NRI
2. VALVE SEAL WELDS - LACK OF FUSION OF THE SIDES OF THE SEAL WELDS.

Reviewed By:	SNT Level:	Date:	Page of

FORM #603a - 1/25/96

AGTSERVICES Inc.

Time Saving Solutions for Generator Testing & Repairs

HAWAIIAN ELECTRIC

Waiau Unit # 5

Westinghouse Generator S/N 1S59P738

Final Post Restack and Rewind Summary

ELCID Testing
Loop Testing
Through Bolt Testing
RTD Testing
Winding Resistance
Winding Megger and Polarization Index
Winding Hipot
Bump Testing

February 19, 2003

TESTED BY:	Pat Leahy	AGT Services
	Ron Newcomb	AGT Services
TEST DATE:	February 12 through 16, 2003	

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(518) 843-1112

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HAWAIIAN ELECTRIC
WAIAU #5

FINAL REPORT

INITIAL TESTING

The initial testing was conducted during an electrical test series for routine maintenance. An El Cid test that looks for shorted laminations in the stator core was performed. The test indicated that there was a spot 15 packages in from the turbine end of the stator that had shorts. The test uses a 100-milliamp-threshold signal as a base for further inspection. The signal at this area was 198 milliamps. Further visual inspection showed a steel chip lodged between the side of the stator bar and the core iron.

To insure no damage had been done to the bar or the core iron it was necessary to remove the bottom stator bar to see this area better. Thirteen top bars had to be removed to allow the

Approximately ¼ inch of material was taken off per side. The El Cid results showed a drop from 286 ma to 196 ma. Further grinding did not decrease the fault current but 7-8 ma.

Prior to grinding a loop test was conducted on the core. The loop test consists of putting 7 turns of 500 MCM cable thru the stator and connecting it across a 2300 VAC source. This test is designed to simulate the rotor flux the core iron sees. The combination of volts available and the 7 turns provided an 85% of design flux density rated test. Since the loop test provided actual heating and is much closer to real running conditions the data received is very credible and should be used as the final criteria.

The test will cause shorted iron to heat and by using a thermal sensing camera the hot spot can be seen and measured. Prior to the grinding the hot spot was 75 C recorded using the camera. A thermocouple was placed on the ground area and had a reading of 81 C. Accepted industry practice recommend that if an area has a hot spot of more then 10 C it should be repaired. Since the remainder of the core was at an ambient temperature of 31 C the delta was over 40 C and the area needed to be repaired. The test was discontinued at this time. The differential temperature was still increasing at that time.

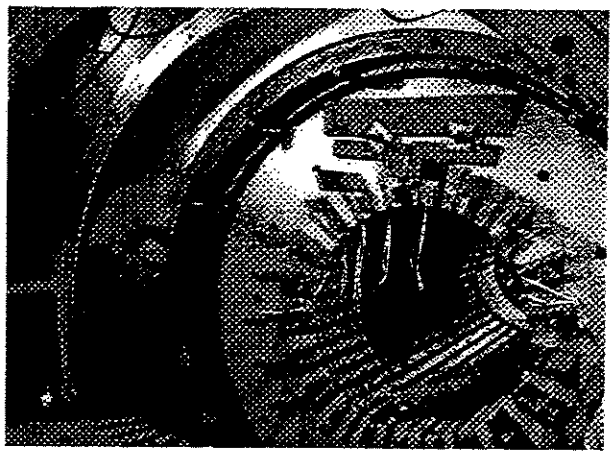
After the grinding was completed the second ring test was conducted and the test was held on longer than the first test. The core temperature increased to 71 C and the hot spot increased to 104 C. The thermocouple on the hot spot area was at 95 C.

CORE REPAIR ACTIVITIES

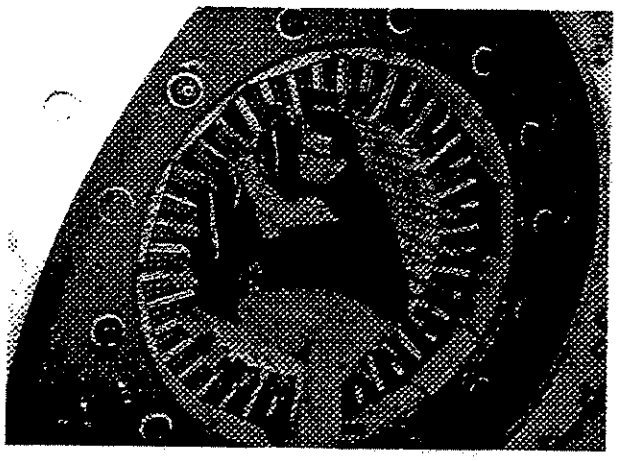
The decision to repair the core iron was made and what follows is a summary of the activities involved in the replacement of the damaged core iron. Also it was decided that the thru bolts would be replaced with new nitrided bolts. Additionally the new style (OMM-99) nut and insulator would be utilized on the ends of the thru bolts.

Hawaiian Electric personnel lifted the generator approximately 7 inches to allow for the replacement of the bottom two thru bolts. After the new thru bolts were installed the generator was lowered to its original position.

The turbine end (TE) core compression flange was removed to gain access to the individual laminations. A C-hook was fabricated on site by Hawaiian Electric personnel to remove the large flange from the building bolts. The thru bolts were retracted in the direction of the collector end (CE) so no interference would be encountered during the removal of the flange. This photo shows the flange being removed.



New Laminations being installed



Final installation of core flange

FINAL TESTING ON STATOR CORE

The final testing of the stator core includes two tests. One test is the loop test and thermal imaging which documented the original problem area and the other is the ELCID test. Both tests had satisfactory results indicating the original core iron did not have any new hot spots and the newly installed iron did not have any hot spots either. No more than a 2 degree C differential was detected during the loop test with the thermal imaging equipment. The ELCID data obtained in the final test was all well below the 100 milli amp threshold for suspect core iron.

RECOMMENDATIONS FOR FUTURE TESTING AND MAINTENANCE

Future testing with the generator field removed should be an ELCID test to determine if the original core iron is deteriorating any further. This should not occur as long as the core remains tight. However subsequent ELCID data can be compared to the final ELCID data contained in this report to determine if any change in core iron condition is occurring over time

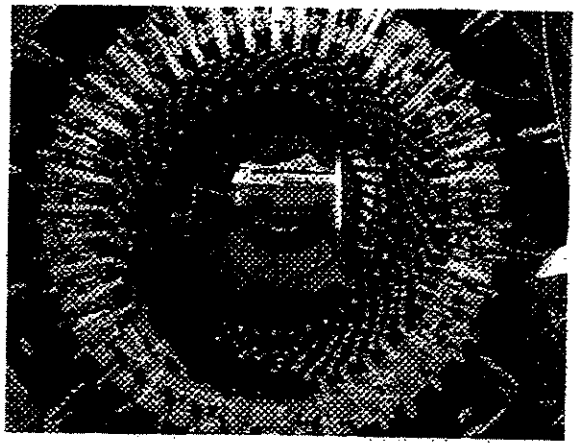
Maintenance activities during future outages should include a random check of the torque on the building bolts as well as the thru studs. The target torques should be: Building bolts **557 ft.-lbs.** and for the thru studs **473 ft.-lbs.** These torques are for this machine only and should not be used for any other Hawaiian Electric unit. These torques are determined by many factors including length of core, diameter of core (ID and OD), lubricated and/or special OMM-99 style fastener system. The torque for each machine is an involved calculation and the above torque values are specific to Hawaiian Electric Waiau unit # 5 only.

REWIND SUMMARY

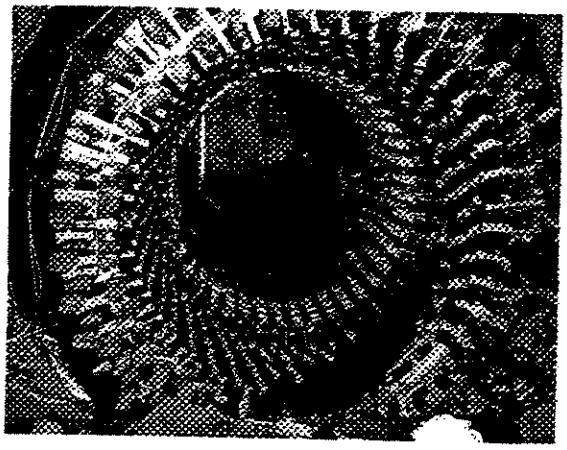
REWIND HIGHLIGHTS

A new end winding support system was utilized on this rewind. The new end winding support system will allow axial movement of the end winding thus alleviating stress on the end winding during thermal cycling. The end winding support system was installed on both ends after the core repairs were affected. The main activity in the end winding support system installation is to get the binding bands concentric with the stator core. This was achieved on both ends and the generator was ready to accept the bottom stator bars.

The 42 bottom stator bars were installed and they were tied in place after they were laid in place. An alignment tool was used to ensure proper placement of the bottom stator bars. After all bottom bars were installed an intermediate hipot was performed to ensure the integrity of the ground wall insulation was not compromised during the installation process. The hipot was performed successfully and no bottom bars were replaced.

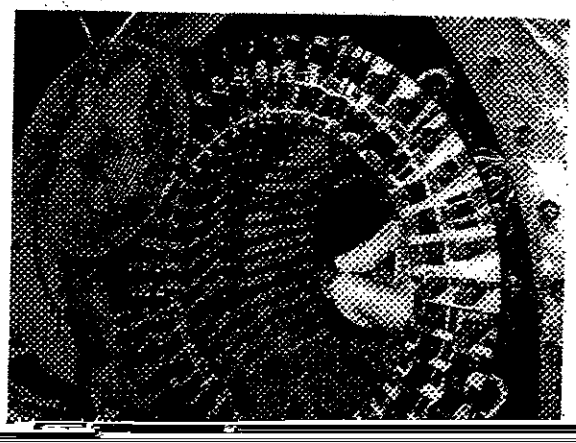


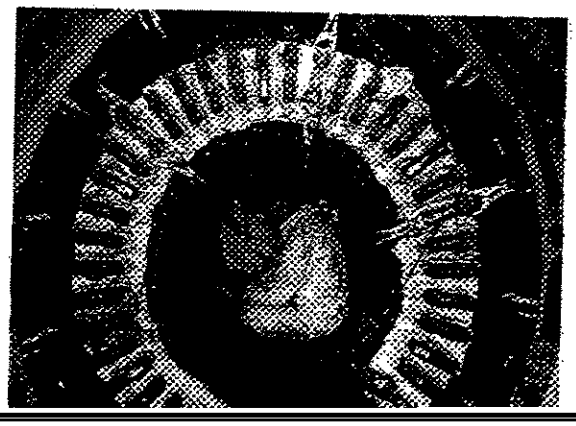
Top Bars in CE

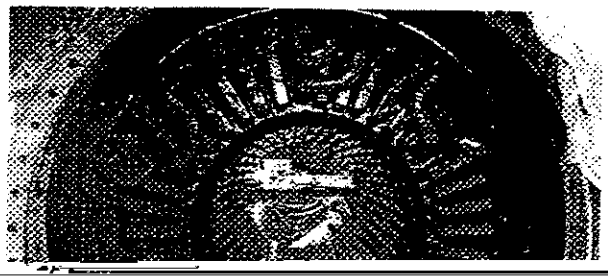


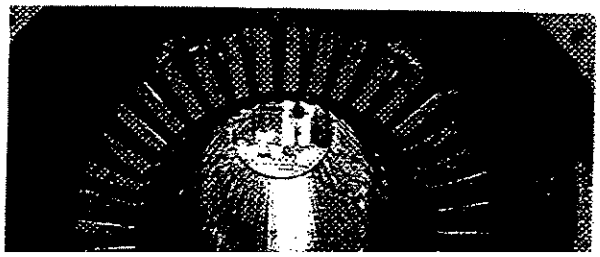
Top Bars in TE

After both top and bottom bars were installed, the series connections were brazed together as well as the phase connections. These connections were then insulated. The straight series connection was insulated with a one piece cap and the phases connections were hand taped with mica-mat tape. A nose ring was also installed on both ends to add stiffness to the end winding. After the epoxy had set up on all ties and phase insulation, the core and end windings were painted.









THIELSCH ENGINEERING, INC.
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CRANSTON, RHODE ISLAND 02910

FEBRUARY 2004

INTEGRITY AND CONDITION ASSESSMENT OF SELECTED AREAS ON THE MAIN STEAM AND HOT REHEAT PIPING SYSTEMS UNIT NO. 5 KAHE GENERATING STATION HAWAIIAN ELECTRIC COMPANY WAIANAE, HAWAII

Ara Nalbandian, P.E.

Peter Kennefick

Kenneth O'Connell

June 29, 2004

Report No. 11085

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Appendix A – Operational Information/Scope of Work
Appendix B – Sketches

EXECUTIVE SUMMARY

During the week of February 23, 2004, Thielsch Engineering performed nondestructive examinations and metallurgical evaluations of the high energy piping systems and selected boiler components in Unit No. 5 at the Kahe Generating Station of the Hawaiian Electric Company. These evaluations are part of a continuing condition assessment and remaining useful life program performed by Hawaiian Electric. Areas selected for internal videoborescopic inspections included the Secondary Superheater Inlet and Outlet headers, the Resuperheater Outlet header, the Economizer Inlet header, and the Secondary Superheater Attemperator.

Selected locations of the Main Steam and Hot Reheat piping systems were examined metallurgically utilizing the replication foil impression method.

The detailed nondestructive examinations did not reveal any evidence of significant service-related deterioration that would compromise the operational integrity of the piping systems or boiler components included in the scope of inspection. The metallurgical characteristics of the piping components examined are the same as applicable to most other steam power stations subjected to similar operating conditions. Metallurgical deterioration of the piping and boiler components as evidenced by void formation, void linkage, or microfissuring that would be indicative of creep degradation was not apparent.

INSPECTION SUMMARY

Component	Examination	Results	Recommendation
Main Steam Piping	Replication	No deterioration	Reinspect 5 years
Hot Reheat Piping	Replication	No deterioration	Reinspect 5 years
Secondary Superheater Inlet Header	Videoborescopic	No deterioration	Reinspect 5 years
Secondary Superheater Outlet Header	Replication, Hone and Glow Videoborescopic	No deterioration	Reinspect 5 years
Resuperheater Outlet Header	Replication, Hone and Glow	No deterioration	Reinspect 5 years
Economizer Inlet Header	Videoborescopic	No deterioration	Reinspect 5 years

Component	Examination	Results	Recommendation
Secondary Superheater Attemperator	Videoborescopic	No deterioration	Reinspect 5 years

INTRODUCTION

Thielsch Engineering performed an inspection of selected high energy piping systems and boiler components in Unit No. 5 at the Kahe Generating Station of the Hawaiian Electric Company. The inspection included metallurgical analysis by replication and videoborescopic examination of the selected high energy piping system welds and boiler components. Tube bore hole examinations were performed at selected locations on the Secondary Superheater Outlet header and the Resuperheater Outlet header in order to identify internal ligament cracking.

The purpose of performing surface plastic replication at the selected locations is threefold:

1. Determine the change in material microstructures as a result of 230,000 hours of prior operation. Comparisons are then made with the microstructural changes occurring for similar high-temperature components which have experienced operating periods from 100,000 to 400,000 hours in length.

2. Inspect the microstructures for evidence of creep as would be indicated by the presence of void formation, void linkage, fissuring, and/or cracking.

3. Examine for other defect conditions which could affect the overall integrity of the components.

BACKGROUND INFORMATION

Unit No. 5 at the Kahe Generating Station is a Babcock & Wilcox single drum, radiant type, pressurized reheat oil fired steam generator. The unit is rated to deliver main steam at a temperature of 1005°F and a pressure of 1,859 psig and reheat steam at

a temperature of 1005°F and a pressure of 546 psig. The unit produces 956,300 lbs. steam per hour at full load.

Unit No. 5 at the Kahe Generating Station has operated [illegible]

hours in a load following capacity. The unit experiences approximately four shutdowns a year. Unit No. 5 was placed into service on December 30, 1974. This evaluation represents the continuation of the remaining useful life assessment for Unit No. 5.

The Main Steam and Hot Reheat piping systems were fabricated using pipe produced to the requirements of ASTM Specification A-335 covering "Seamless Ferritic Alloy Steel Pipe for High-Temperature Service". They each involve Grade P22 low-alloy steel material with a nominal composition of 2-1/4% chromium and 1% molybdenum, i.e., a 2-1/4 Cr – 1 Mo low-alloy steel. The Main Steam piping system was fabricated using pipe of the following sizes: 10.62" OD x 1.743" MWT and 7.25" OD x 1.293" MWT. The Hot Reheat piping system was fabricated using pipe of the following sizes: 18.37" ID x 0.845" MWT and 14.75" ID x 0.83" MWT.

The Economizer Inlet header was produced to the requirements of ASME Specification SA-106 covering "Seamless Carbon Steel Pipe For High-Temperature Service". The material is Grade C.

Dimensional specifications of the headers along with the scope of work are provided in Appendix A. A sketch of Unit No. 5 detailing the areas selected for examination is provided in Fig. 1. Sketches of each piping system and boiler component examined are provided in Appendix B.

In order to maintain consistent location identifications, the labeling system provided by Hawaiian Electric personnel was utilized. Circumferential piping positions were identified as follows:

1. Horizontal Pipe Sections: The top is identified as the 12:00 o'clock position. Other positions are identified clockwise while looking downstream.

2. Vertical Pipe Sections: The Ewa (North) is identified as the 12:00 o'clock position. Other positions are identified clockwise while looking downstream.

FEBRUARY 2004 INSPECTION

MAIN STEAM PIPING SYSTEM

The Main Steam piping system was examined by metallurgical replication at five locations. Photographs of the replication areas are provided in Figs. 2 through 5. The replica areas inspected are identified in relation to the entire piping system on the isometric sketch provided in Appendix B.

Metallurgical Evaluation

A metallurgical evaluation of the Main Steam piping system was performed utilizing in-situ metallographic preparation or replication. This evaluation was performed to identify any microstructural changes that may have occurred in the Main Steam piping system as a result of the prior years of high-temperature service.

Five replica foils were removed from the Main Steam piping system. Each of the replica foils was then examined by optical microscopy at magnifications of 50X to 1000X. Photomicrographs were taken to document the typical conditions observed in each replica foil. When necessary, additional photomicrographs were taken to document any unusual conditions. The microstructures and random conditions observed were compared with standards developed over the last 40 years. This comparison would allow the condition of the Main Steam piping system to be assessed.

The microstructures were also compared with the creep classification developed by EPRI. (For reference purposes, this classification contains five different stages of creep ranging from Class 1 to Class 5. Class 1 involves no damage. Class 5 involves the formation of macrocracking.) Table I identifies the location from which the replica foils were removed. This table also identifies the microstructural condition of the replica foils with respect to the EPRI creep classification. Finally, this table identifies the figures in which photomicrographs of the replica foils are provided.

Table I

Replica No.	Weld	Location	Creep Classification	Fig. No.
MS-1	MS Valve	Valve Body	1	6
MS-2	Girth Weld No. MS2	4:00 o'clock position, downstream side of weld	1	7
MS-3	Girth Weld No. MSW5	7:00 o'clock position, upstream side of weld	1	8
MS-4	Girth Weld No. MSW7	12:00 o'clock position, upstream side of weld	1	9
MS-5	Girth Weld No. MSW11	3:00 o'clock position, downstream side of weld	1	10

The replication foils removed from the Main Steam piping system all exhibited similar microstructures. In each case, the microstructure of the weld consisted of acicular bainite with ferrite. The microstructure of the heat-affected zone consisted of tempered bainite with ferrite. The microstructure of the base material also consisted of tempered bainite and ferrite. The microstructures observed in all of the replica foils are considered typical for 2-1/4 Cr – 1 Mo low-alloy steel pipe produced in accordance with ASTM Specification A-335, Grade P22 or fittings of the equivalent chemical composition. There was no evidence of microstructural anomalies relating to the original manufacture of the pipe.

The base material did exhibit some microstructural transformation as a result of the previous years of high-temperature service. This included carbide precipitation at the grain boundaries. Some agglomeration of the carbides was also observed. The carbide precipitation and agglomeration are typical for 2-1/4 Cr – 1 Mo low-alloy steel subsequent to more than 200,000 hours of high-temperature service. Carbide precipitation and agglomeration are the precursors to creep deterioration. Despite this, there was no evidence of creep deterioration, i.e., void formation, void linkage, or microfissuring in any of the replica foils removed from the Main Steam piping system.

HOT REHEAT PIPING SYSTEM

The Hot Reheat piping system was examined by in-situ metallurgical preparation (replication) at five locations. Photographs of the replication areas are provided in Figs. 11 through 13. The replica areas inspected are identified in relation to the entire piping system on the isometric sketch provided in Appendix B.

Metallurgical Evaluation

As part of the inspection of the Hot Reheat piping system, five replica foils were removed. These replica foils were sputtered with gold and examined by optical microscopy at magnifications of 50X to 1000X. Photomicrographs were taken to document the typical conditions observed.

Table II identifies the location from which the replica foils were removed. This table also identifies the microstructural condition of the replica foils with respect to the EPRI creep classification. Finally, this table identifies the figures in which photomicrographs of the replica foils are provided.

Table II

Replica No.	Weld	Location	Creep Classification	Fig. No.
HRH-1	HRH Safety Valve	Valve Body	1	14
HRH-2	Girth Weld No. HRHW5	7:00 o'clock position, downstream side of weld	1	15
HRH-3	Girth Weld No. HRHW6A	3:00 o'clock position, upstream side of weld	1	16
HRH-4	Girth Weld No. HRHW8	11:00 o'clock position, downstream side of weld	1	17
HRH-5	Girth Weld No. HRHW10	2:00 o'clock position, upstream side of weld	1	18

The microstructures observed in all of the replica foils are considered typical for 2-1/4 Cr – 1 Mo low-alloy steel pipe produced in accordance with ASTM Specification A-335, Grade P22. There was no evidence of microstructural anomalies relating to the original manufacture.

The base material did exhibit some microstructural transformation as a result of the previous years of high-temperature service. This included carbide precipitation within the ferrite grains and at the grain boundaries. Some agglomeration of the carbides was also observed. The carbide precipitation and agglomeration are typical for 2-1/4 Cr – 1 Mo low-alloy steel subsequent to more than 200,000 hours of high-temperature service. There was no evidence of creep deterioration, i.e., void formation, void linkage, or microfissuring in any of the replica foils removed from the Hot Reheat piping system.

SECONDARY SUPERHEATER INLET HEADER

Borescopic Examination

A videoborescopic examination of the internal surfaces of the Secondary Superheater Inlet header was performed. The purpose of the internal visual examination was to detect ligament cracking between tube holes, identify excessive internal corrosion or

[redacted]

videoborescopic examination did not reveal evidence of deterioration of the header. There was no evidence of internal deterioration in the form of ligament cracking or heavy oxide scale build-up. The protective magnetite layer was in good condition and did not display evidence of exfoliation. Photographs of the Secondary Superheater Inlet header are provided in Fig. 19. A sketch of the Secondary Superheater Inlet header is provided in Appendix B.

SECONDARY SUPERHEATER OUTLET HEADER

was performed to identify any microstructural changes that may have occurred in the Secondary Superheater Outlet header as a result of the prior years of high-temperature service.

One replica foil was removed from the Secondary Superheater Outlet header. This replica foil was sputtered with gold to provide contrast. It was then examined by optical microscopy at magnifications of 50X to 1000X. Photomicrographs were taken to document the typical conditions observed in this replica foil. The microstructures observed were compared with standards developed over the last 40 years. This comparison would allow the condition of the Secondary Superheater Outlet header to be assessed. The microstructures were also compared with the creep classification developed by EPRI.

Table III identifies the location from which the replica foil was removed. This table also identifies the microstructural condition of the replica foil with respect to the EPRI creep classification. Finally, this table identifies the figure in which photomicrographs of the replica foil are provided.

TABLE III

Replica No.	Weld	Location	Creep Classification	Fig. No.
SSOH-1	Saddle Weld	7:00 o'clock position	1	22

The microstructure of the weld consisted of acicular bainite with limited amounts of free ferrite. The microstructure of the heat-affected zone consisted of tempered bainite with limited amounts of free ferrite. The microstructure of the base material involved tempered bainite and ferrite. These microstructures are typical for 2-1/4 Cr – 1 Mo low-alloy steel pipe produced in accordance with ASME Specification SA-335, Grade P22. There was no evidence of microstructural anomalies relating to the original manufacture of the pipe or the filler material used in the fabrication of the header.

The base material did exhibit some microstructural transformation as a result of the previous years of high-temperature service. This included carbide precipitation at the grain boundaries. Some agglomeration of the carbides was also observed. The carbide precipitation and agglomeration are not unexpected for 2-1/4 Cr – 1 Mo low-alloy steel subsequent to more than 200,000 hours of high-temperature service.

As noted previously, carbide precipitation and agglomeration are the precursors to creep deterioration. Despite this, there was no evidence of creep deterioration, i.e., void formation, void linkage, or microfissuring in the replica foil removed from the

Hone and Glow Examination

A hone and glow examination was performed on the Secondary Superheater Outlet header in order to identify fatigue conditions associated with the interior of the header. The hone and glow examination was performed at two tube stub penetrations along the header. No internal indications were revealed as a result of the hone and glow examinations performed.

RESUPERHEATER OUTLET HEADER

Photographs of the Resuperheater Outlet header are provided in Fig. 23. A sketch of the Resuperheater Outlet header is provided in Appendix B.

Metallurgical Evaluation

A metallurgical evaluation of the Resuperheater Outlet header was performed utilizing in-situ metallographic examination or replication. This evaluation was performed to identify any microstructural changes that may have occurred in the Resuperheater

identifies the microstructural condition of the replica foil with respect to the EPRI creep classification. Finally, this table identifies the figure in which photomicrographs of the replica foil are provided.

TABLE IV				
Replica No.	**Weld**	**Location**	**Creep Classification**	**Fig. No.**
ROH-1	Tee	12:00 o'clock position	1	24

The microstructure of the weld consisted of acicular bainite with limited amounts of free ferrite. The microstructure of the heat-affected zone consisted of tempered bainite with limited amounts of free ferrite. The microstructure of the base material involved tempered bainite and ferrite. These microstructures are typical for a 2-1/4 Cr – 1 Mo low-alloy steel fitting. There was no evidence of microstructural anomalies relating to the original manufacture of this fitting or the subsequent fabrication of the header.

The base material did exhibit some microstructural transformations as a result of the previous years of high-temperature service. This included carbide precipitation at the grain boundaries. Some agglomeration of the carbides was also observed. The carbide precipitation and agglomeration are not unexpected for 2-1/4 Cr – 1 Mo low-alloy steel subsequent to more than 230,000 hours of high-temperature service.

Carbide precipitation and agglomeration are the precursors to creep deterioration. Despite this, there was no evidence of creep deterioration, i.e., void formation, void linkage, or microfissuring in the replica foil removed from the Resuperheater Outlet header.

Hone and Glow Examination

A hone and glow examination was performed on the Resuperheater Outlet header in order to identify fatigue conditions associated with the interior of the header. The hone and glow examination was performed at two tube stub penetrations along the

header. No internal indications were revealed as a result of the hone and glow examinations performed.

ECONOMIZER INLET HEADER

Borescopic Examination

A videoborescopic examination of the internal surfaces of the Economizer Inlet header was performed. The purpose of the internal visual examination is to detect ligament cracking between tube holes, identify excessive internal corrosion or erosion, or exfoliation of the oxide scale along the inside diameter. This internal videoborescopic examination did not reveal evidence of deterioration of the header. Specifically, there was no evidence of internal deterioration in the form of ligament cracking or heavy oxide scale build-up. The examination of the Economizer Inlet header was limited due to condensate/water entrapped within the header during the examination. Photographs of the header are provided in Fig. 25. Photographs of the Inlet header as viewed during the internal videoborescopic examination are provided in Figs. 26 and 27.

SECONDARY SUPERHEATER ATTEMPERATOR

A videoborescopic examination of the internal surfaces of the Secondary Superheater Attemperator was performed. The purpose of the internal visual inspection was to identify conditions of cracking along the internal attemperator liner and attemperator spray nozzle. No detrimental conditions were revealed during the inspection. A photograph of the attemperator inlet piping system is provided in Fig. 28. The videotape recorded during the internal inspection was damaged, and did not allow for images to be captured for this report. Included are images of attemperator systems that have experienced deterioration in Figs. 29 and 30.

DISCUSSION

High energy piping systems and associated boiler components are essential to the effective and economical operation of modern power plants. The propensity for failures in piping and boiler component tends to increase with age of the systems involved. Prolonged operations, particularly at elevated temperatures, may result in permanent metallurgical degradation. Conditions as such may increase the potential for cracking and crack propagation until a final failure stage is reached by the component. As a result, power plant operators have become increasingly cognizant of the importance of condition assessment evaluations of high energy piping systems and boiler components.

Significant levels of metallurgical degradation should be detected to conservatively determine the remaining useful life of a component. For this estimation, proper planning and budgeting of repair and replacement programs can be accomplished. By proper planning and engineering evaluations, excessively long plant outages or interruptions of scheduled operations can be minimized and in some cases avoided altogether.

Effective programs for monitoring and maintaining piping systems and boiler components generally involve an initial preliminary inspection to confirm the current integrity of the components. The effects of continued operations on the system involved can then be determined. Following these steps should be a program of periodic inspections and maintenance to ensure the continued satisfactory, safe, and efficient performance of these critical components.

CONCLUSIONS AND RECOMMENDATIONS

The detailed nondestructive and metallurgical examinations performed on the selected areas of the Main Steam and Hot Reheat piping system and various boiler

components of Unit No. 5 at the Kahe Generating Station of the Hawaiian Electric Company did not reveal any evidence of significant deterioration that would compromise the integrity of the systems involved.

The following recommendations are made concerning the piping systems and boiler components for Unit No. 5 at the Kahe Generating Station of the Hawaiian Electric Company:

1. Continue performing routine condition assessment evaluations similar to those performed in this report at 3 to 5 year intervals.