ARTIAL CONFIDENTIA
N SEALED ENVELOPE)

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF HAWAII

In the Matter of the Application of	)	
	)	
MAUI ELECTRIC COMPANY, LIMITED	)	Docket No. 2006-0387
	)	
For Approval of Rate Increases and Revised Rate Schedule and Rules	)	
	)	

MECO
2007 TEST YEAR

MECO Responses to
CONSUMER ADVOCATE
Information Requests

Book 2 of 6

October 30, 2007

CA-IR-53

Ref: T-4, page 9, lines 22–24, page 10, lines 1–26 and page 11, lines 1–7.

a. Please provide actual fuel prices for industrial fuel oil and diesel oil by month, since January 1, 2006
b. Please provide excerpts of pricing provisions for both industrial fuel oil and diesel fuel pursuant to the Chevron and Tesoro fuel contracts, as well as illustrative calculations, input value documentation and supporting market price or index documentation for the Company's determination of test year unit prices.
c. Please provide taxes, ocean transportation, land transportation, petroleum terminalling and wharfage costs that are included in the fuel price to determine the delivered-to-plant price.
d. Please provide a copy of confidential workpaper MECO-WP-402, pages 1 – 3.

MECO Response:

a. The information requested above is confidential and will be provided pursuant to Protective Order No. 23379, dated April 23, 2007. The actual fuel prices for MECO from January 2006 to August 2007 on confidential pages 2 to 39 show the fuel base price, taxes, ocean transportation, land transportation, terminalling (storage), and wharfage costs.

b. The excerpts of pricing provisions from the industrial and diesel fuel oil contracts with Chevron and Tesoro are on pages 1-24 of Attachment 1 of this response, and will be provided pursuant to Protective Order No. 23379, dated April 23, 2007.

c. The following information is confidential and will be provided pursuant to Protective Order No. 23379, dated April 23, 2007. The computations for interisland towing are on pages 25 to 33 of Attachment 1 of this response. Terminalling fees for Kahului, Maui facilities are on pages 34 to 38 of Attachment 1. Terminalling and trucking fees for Island Petroleum, Kaunakakai, Molokai, are on pages 38 to 44 of Attachment 1. Computation of wharfage fees paid by MECO for each shipment of industrial fuel oil and diesel from Oahu to Kahului, Maui, are on pages 44 and 45 of Attachment 1. Trucking freight rates for MECO-Maui land transportation are on pages 46 to 49 of Attachment 1.

d. Please refer to MECO's response to CA-IR-207 for this information.

Confidential Information
Deleted Pursuant To
Protective Order No. 23379

Pages 2-39 contain confidential information and are being provided subject to

Protective Order No. 23379, dated April 23, 2007.

Confidential Information
Deleted Pursuant To
Protective Order No. 23379

Attachment 1 contains confidential information and is being provided subject to

Protective Order No. 23379, dated April 23, 2007.

CA-IR-53

Ref: T-4, page 9, lines 22–24, page 10, lines 1–26 and page 11, lines 1–7.

a. Please provide actual fuel prices for industrial fuel oil and diesel oil by month, since January 1, 2006

b. Please provide excerpts of pricing provisions for both industrial fuel oil and diesel fuel pursuant to the Chevron and Tesoro fuel contracts, as well as illustrative calculations, input value documentation and supporting market price or index documentation for the Company's determination of test year unit prices.

c. Please provide taxes, ocean transportation, land transportation, petroleum terminalling and wharfage costs that are included in the fuel price to determine the delivered-to-plant price.

d. Please provide a copy of confidential workpaper MECO-WP-402, pages 1 – 3.

MECO Response:

a. The information requested above is confidential and will be provided pursuant to Protective Order No. 23379, dated April 23, 2007. The actual fuel prices for MECO from January 2006 to August 2007 on confidential pages 2 to 39 show the fuel base price, taxes, ocean transportation, land transportation, terminalling (storage), and wharfage costs.

b. The excerpts of pricing provisions from the industrial and diesel fuel oil contracts with Chevron and Tesoro are on pages 2-5 of this response, and will be provided pursuant to Protective Order No. 23379, dated April 23, 2007.

c. The following information is confidential and will be provided pursuant to Protective Order No. 23379, Dated April 23, 2007. The computations for interisland towing are on pages 25 to 33 of Attachment 1 of this response. Terminalling fees for Kahului, Maui facilities are on pages 34 to 38 of Attachment 1. Terminalling and trucking fees for Island Petroleum, Kaunakakai, Molokai, are on pages 38 to 44 of Attachment 1. Computation of wharfage fees paid by MECO for each shipment of industrial fuel oil and diesel from Oahu to Kahului, Maui, are on pages 44 and 45 of Attachment 1. Trucking freight rates for MECO-Maui land transportation are on pages 46 to 49 of Attachment 1.

d. Please refer to HECO's response to CA-IR-207 for this information.

CA-IR-53

Ref: T-4, page 9, lines 22–24, page 10, lines 1–26 and page 11, lines 1–7.

a. Please provide actual fuel prices for industrial fuel oil and diesel oil by month, since January 1, 2006

b. Please provide excerpts of pricing provisions for both industrial fuel oil and diesel fuel pursuant to the Chevron and Tesoro fuel contracts, as well as illustrative calculations, input value documentation and supporting market price or index documentation for the Company's determination of test year unit prices.

c. Please provide taxes, ocean transportation, land transportation, petroleum terminalling and wharfage costs that are included in the fuel price to determine the delivered-to-plant price.

d. Please provide a copy of confidential workpaper MECO-WP-402, pages 1 – 3.

MECO Response:

a. The information requested above is confidential and will be provided pursuant to Protective Order No. 23379, dated April 23, 2007. The actual fuel prices for MECO from January 2006 to August 2007 on confidential pages 2 to 39 show the fuel base price, taxes, ocean transportation, land transportation, terminalling (storage), and wharfage costs.

b. The information requested is being compiled by HECO's Fuels Resources Division and will be provided when the compilation is completed.

c. Please refer to the information provided in response to part a.

d. Please refer to HECO's response to CA-IR-207 for this information.

CA-IR-54

Ref: T-4, page 11, lines 4 – 7.

The referenced section of testimony indicates that IFO and diesel fuel will be purchased from both Chevron and Tesoro. Please provide the percentage of fuel that will be purchased from Chevron and the percentage of fuel that will be purchased from Tesoro for each MECO generating unit.

MECO Response:

The information requested is included in MECO-WP-402, which is confidential.

MECO-WP-402 will be provided pursuant to Protective Order No. 23379, dated April 23, 2007.

Please refer to MECO-WP-402, page 1, for the supplier mix of fuel delivered to MECO. This system-level assumption is the same allocation assumption for each MECO generating plant and each MECO generating unit.

CA-IR-55

Ref: T-4, page 11, lines 24 – 26.

Page 11 of T-4 seems to omit Variable Operation and Maintenance cost in calculating commitment and dispatch levels. Please explain why the Variable O&M cost is not included in the cost of dispatching any MECO generating unit

MECO Response:

Variable O&M is included in the commitment and dispatch of MECO generating units. The referenced statement should read, "Unit commitment and dispatch levels are based on (1) fuel cost, (2) transmission loss (or "penalty) factors, (3) transmission system requirements, and (4) Variable Operation and Maintenance cost."

CA-IR-56

Ref: T-4, page 14, lines 1 – 3.

The referenced testimony indicates that the capacity purchased from HC&S is adjusted for its forced outage rate

a. Please provide the forced outage rate for HC&S.

b. Please provide all calculations and supporting documentation that were used to determine the forced outage rate for HC&S.

c. Please provide all calculations and supporting documentation showing how this forced outage rate affects the amounts of capacity and energy purchased by MECO from HC&S.

MECO Response:

a. The reference to the HC&S forced outage rate in MECO T-4, page 14, lines 1-3, and line 18 is in error. Only the scheduled outage of HC&S has been included in the Test Year forecast of its operation. HC&S is modeled as a transaction using the fixed energy transaction file and a forced outage rate is not used. Please refer to MECO T-4, pages 16-18 for the Test Year HC&S purchased energy calculations.

b. Not applicable. See response to part a. above.

c. Not applicable. See response to part a. above.

CA-IR-57

Ref: T-4, page 24, lines 4–5, MECO-WP-404, page 90.

The variable O&M costs for each MECO generating unit are provided on MECO-WP-404, Page 90. Lines 4-5 of page 24 in T-4 indicate that these variable O&M costs were determined by analyzing actual historical variable O&M costs.

a. Please provide all calculations used to determine the variable O&M costs found on MECO-WP-404, page 90.

b. Please provide the actual variable O&M costs incurred by each of MECO's generating units annually from 2001 through 2006.

MECO Response:

a. The calculation of the MECO variable O&M costs is very complicated and involved. The spreadsheets that are used to perform the calculations are inter-linked, and therefore, do not transfer well into hard copy format. Therefore, an electronic copy of each variable O&M file is provided. The following is a list of the files and a brief description of each:

- CA-IR-57 O&M Summary.xls: summary of the variable O&M costs that are consistent with MECO-WP-404, page 90.
- historical overhaul cost for vo&m,aug06_r0.xls: unit overhaul calculation
- Maui_1999O&M_r5.xls: actual O&M data from 1999. Fixed and variable O&M costs are calculated and escalated to 2007$.
- Maui_2000O&M_r5.xls: actual O&M data from 2000. Fixed and variable O&M costs are calculated and escalated to 2007$.
- Maui_2001O&M_r5.xls: actual O&M data from 2001. Fixed and variable O&M costs are calculated and escalated to 2007$.
- Maui_2002O&M_r5.xls: actual O&M data from 2002. Fixed and variable O&M costs are calculated and escalated to 2007$.

- Maui_2003O&M_r5.xls: actual O&M data from 2003. Fixed and variable O&M costs are calculated and escalated to 2007$.
- Maui_2004O&M_r4.xls: actual O&M data from 2004. Fixed and variable O&M costs are calculated and escalated to 2007$.
- Maui_2005O&M_r1.xls: actual O&M data from 2005. Fixed and variable O&M costs are calculated and escalated to 2007$.
- MauiO&M_avg_r5.xls: calculates the average fixed and variable O&M from 1999 to 2005 in 2007$.

b. Response to CA-IR-57 part a. contains the actual variable O&M costs for years 1999-2005. Actual variable O&M costs incurred by each of the MECO generating units for 2006 is not included in the variable O&M calculation, and therefore, is not applicable and not provided. O&M data from 2006 would not be used because Maalaea Unit 13 was out of service for the entire year and was an anomalous situation.

CA-IR-58

Ref: T-4, page 25, lines 14 – 16.

Please explain how the commitment and dispatch penalty factors were derived for each MECO generating unit and power purchase. Please include all supporting documentation and calculations.

MECO Response:

The commitment penalty factors were derived using iterations of the production simulation model to synchronize the modeled commitment with planned MECO unit commitment in the test year by operating type, such as baseloaded, cycling and peaking units. For example, an initial production simulation run is made using a commitment penalty factor of 1.0 for all units. The commitment order in the production simulation is compared to the order in which MECO plans to commit the units in the test year. The commitment penalty factor is increased to move units down in the commitment order. Production simulation runs are made repeatedly until the commitment order in the production simulation matches the order in which MECO plans to commit the units in the test year. Please refer to pages 2 to 28 of this response for additional information from the production simulation results

The dispatch penalty factors were identical for all MECO generating units. Please refer to MECO-WP-404, page 17 in the column labeled "Disp Pnlty". The dispatch penalty factor for each MECO generating unit was set to '1' to allow the production simulation to dispatch the MECO generating units based on economics (variable O&M and fuel).

There were no commitment or dispatch penalty factors derived or used for Independent Power Producers.

Reference: MECO_TY2007.dgn

Year: 2007 Period: 1

Unit Commitment Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	24 M14&15	157.22
4	25 M15&16	157.22
5	28 M17&18	235.29
6	29 M19&18	156.86
7	21 Maalae13	169.63
8	20 Maalae12	254.44
9	2 Kahului2	308.78
10	1 Kahului1	310.82
11	19 Maalae11	339.25
12	18 Maalae10	424.06
13	17 Maalaea9	448.85
14	16 Maalaea8	538.62
15	14 Maalaea6	557.34
16	12 Maalaea4	650.23
17	15 Maalaea7	743.12
18	13 Maalaea5	836.01
19	11 Maalaea3	196.00
20	10 Maalaea2	294.00
21	9 Maalaea1	392.00
22	7 MaalaeX1	490.00
23	8 MaalaeX2	588.00

Year: 2007 Period: 1

Unit Reserve Dispatch Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	29 M19&18	156.86
4	24 M14&15	157.22
5	25 M15&16	157.22
6	21 Maalae13	168.31
7	11 Maalaea3	196.00
8	28 M17&18	235.29
9	20 Maalae12	252.46
10	10 Maalaea2	294.00
11	2 Kahului2	308.78
12	1 Kahului1	310.81
13	19 Maalae11	336.61
14	9 Maalaea1	392.00
15	18 Maalae10	420.76
16	17 Maalaea9	445.17
17	7 MaalaeX1	490.00

18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 1

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75
4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45
7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53
14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66

44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 2

Unit Commitment Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	29	M19&18	156.86
7	21	Maalae13	169.63
8	20	Maalae12	254.44
9	2	Kahului2	308.78
10	1	Kahului1	310.82
11	19	Maalae11	339.25
12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01
19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00
23	8	MaalaeX2	588.00

Year: 2007 Period: 2

Unit Reserve Dispatch Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	29	M19&18	156.86
4	24	M14&15	157.22
5	25	M15&16	157.22
6	21	Maalae13	168.31
7	11	Maalaea3	196.00

8	28	M17&18	235.29
9	20	Maalae12	252.46
10	10	Maalaea2	294.00
11	2	Kahului2	308.78
12	1	Kahului1	310.81
13	19	Maalae11	336.61
14	9	Maalaea1	392.00
15	18	Maalae10	420.76
16	17	Maalaea9	445.17
17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 2

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75
4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45
7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53
14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45

34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 3

Unit Commitment Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	29	M19&18	156.86
7	21	Maalae13	169.63
8	20	Maalae12	254.44
9	2	Kahului2	308.78
10	1	Kahului1	310.82
11	19	Maalae11	339.25
12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01
19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00
23	8	MaalaeX2	588.00

Year: 2007 Period: 3

Unit Reserve Dispatch Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	29 M19&18	156.86
4	24 M14&15	157.22
5	25 M15&16	157.22
6	21 Maalae13	168.31
7	11 Maalaea3	196.00
8	28 M17&18	235.29
9	20 Maalae12	252.46
10	10 Maalaea2	294.00
11	2 Kahului2	308.78
12	1 Kahului1	310.81
13	19 Maalae11	336.61
14	9 Maalaea1	392.00
15	18 Maalae10	420.76
16	17 Maalaea9	445.17
17	7 MaalaeX1	490.00
18	16 Maalaea8	534.21
19	14 Maalaea6	554.73
20	8 MaalaeX2	588.00
21	12 Maalaea4	647.19
22	15 Maalaea7	739.64
23	13 Maalaea5	832.10

Year: 2007 Period: 3

Segment Dispatch Priority List

Priority	Station	Segment	Cost
1	3 Kahului3	2	112.12
2	3 Kahului3	3	116.01
3	4 Kahului4	2	117.75
4	3 Kahului3	4	119.89
5	12 Maalaea4	2	122.45
6	13 Maalaea5	2	122.45
7	14 Maalaea6	2	122.45
8	15 Maalaea7	2	122.45
9	16 Maalaea8	2	124.80
10	17 Maalaea9	2	124.80
11	4 Kahului4	3	126.64
12	1 Kahului1	2	132.99
13	4 Kahului4	4	135.53
14	18 Maalae10	2	137.11
15	19 Maalae11	2	137.11
16	20 Maalae12	2	137.11
17	21 Maalae13	2	137.11
18	28 M17&18	2	140.36
19	28 M17&18	3	140.36
20	28 M17&18	4	140.36
21	2 Kahului2	2	141.04
22	24 M14&15	2	143.57
23	24 M14&15	3	143.57

24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 4

Unit Commitment Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	2	Kahului2	308.78
7	1	Kahului1	310.82
8	29	M19&18	156.86
9	21	Maalae13	169.63
10	20	Maalae12	254.44
11	19	Maalae11	339.25
12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01

19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00
23	8	MaalaeX2	588.00

Year: 2007 Period: 4

Unit Reserve Dispatch Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	29	M19&18	156.86
4	24	M14&15	157.22
5	25	M15&16	157.22
6	21	Maalae13	168.31
7	11	Maalaea3	196.00
8	28	M17&18	235.29
9	20	Maalae12	252.46
10	10	Maalaea2	294.00
11	2	Kahului2	308.78
12	1	Kahului1	310.81
13	19	Maalae11	336.61
14	9	Maalaea1	392.00
15	18	Maalae10	420.76
16	17	Maalaea9	445.17
17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 4

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75
4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45
7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53

14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 5

Unit Commitment Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	29	M19&18	156.86
7	21	Maalae13	169.63
8	20	Maalae12	254.44

9	2	Kahului2	308.78
10	1	Kahului1	310.82
11	19	Maalae11	339.25
12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01
19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00
23	8	MaalaeX2	588.00

Year: 2007 Period: 5

Unit Reserve Dispatch Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	29	M19&18	156.86
4	24	M14&15	157.22
5	25	M15&16	157.22
6	21	Maalae13	168.31
7	11	Maalaea3	196.00
8	28	M17&18	235.29
9	20	Maalae12	252.46
10	10	Maalaea2	294.00
11	2	Kahului2	308.78
12	1	Kahului1	310.81
13	19	Maalae11	336.61
14	9	Maalaea1	392.00
15	18	Maalae10	420.76
16	17	Maalaea9	445.17
17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 5

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75

4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45
7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53
14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 6

Unit Commitment Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	24 M14&15	157.22
4	25 M15&16	157.22
5	28 M17&18	235.29
6	29 M19&18	156.86
7	21 Maalae13	169.63
8	20 Maalae12	254.44
9	2 Kahului2	308.78
10	1 Kahului1	310.82
11	19 Maalae11	339.25
12	18 Maalae10	424.06
13	17 Maalaea9	448.85
14	16 Maalaea8	538.62
15	14 Maalaea6	557.34
16	12 Maalaea4	650.23
17	15 Maalaea7	743.12
18	13 Maalaea5	836.01
19	11 Maalaea3	196.00
20	10 Maalaea2	294.00
21	9 Maalaea1	392.00
22	7 MaalaeX1	490.00
23	8 MaalaeX2	588.00

Year: 2007 Period: 6

Unit Reserve Dispatch Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	29 M19&18	156.86
4	24 M14&15	157.22
5	25 M15&16	157.22
6	21 Maalae13	168.31
7	11 Maalaea3	196.00
8	28 M17&18	235.29
9	20 Maalae12	252.46
10	10 Maalaea2	294.00
11	2 Kahului2	308.78
12	1 Kahului1	310.81
13	19 Maalae11	336.61
14	9 Maalaea1	392.00
15	18 Maalae10	420.76
16	17 Maalaea9	445.17
17	7 MaalaeX1	490.00
18	16 Maalaea8	534.21
19	14 Maalaea6	554.73
20	8 MaalaeX2	588.00
21	12 Maalaea4	647.19
22	15 Maalaea7	739.64
23	13 Maalaea5	832.10

Year: 2007 Period: 6

Segment Dispatch Priority List

Priority	Station	Segment	Cost
1	3 Kahului3	2	112.12
2	3 Kahului3	3	116.01
3	4 Kahului4	2	117.75
4	3 Kahului3	4	119.89
5	12 Maalaea4	2	122.45
6	13 Maalaea5	2	122.45
7	14 Maalaea6	2	122.45
8	15 Maalaea7	2	122.45
9	16 Maalaea8	2	124.80
10	17 Maalaea9	2	124.80
11	4 Kahului4	3	126.64
12	1 Kahului1	2	132.99
13	4 Kahului4	4	135.53
14	18 Maalae10	2	137.11
15	19 Maalae11	2	137.11
16	20 Maalae12	2	137.11
17	21 Maalae13	2	137.11
18	28 M17&18	2	140.36
19	28 M17&18	3	140.36
20	28 M17&18	4	140.36
21	2 Kahului2	2	141.04
22	24 M14&15	2	143.57
23	24 M14&15	3	143.57
24	24 M14&15	4	143.57
25	25 M15&16	2	143.57
26	25 M15&16	3	143.57
27	25 M15&16	4	143.57
28	1 Kahului1	3	145.48
29	2 Kahului2	3	146.24
30	2 Kahului2	4	151.44
31	29 M19&18	2	154.45
32	29 M19&18	3	154.45
33	29 M19&18	4	154.45
34	18 Maalae10	3	156.60
35	19 Maalae11	3	156.60
36	20 Maalae12	3	156.60
37	21 Maalae13	3	156.60
38	1 Kahului1	4	157.97
39	16 Maalaea8	3	159.11
40	17 Maalaea9	3	159.11
41	12 Maalaea4	3	168.66
42	13 Maalaea5	3	168.66
43	14 Maalaea6	3	168.66
44	15 Maalaea7	3	168.66
45	18 Maalae10	4	176.09
46	19 Maalae11	4	176.09
47	20 Maalae12	4	176.09
48	21 Maalae13	4	176.09
64	16 Maalaea8	4	193.43

65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 7

Unit Commitment Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	29	M19&18	156.86
7	21	Maalae13	169.63
8	20	Maalae12	254.44
9	2	Kahului2	308.78
10	1	Kahului1	310.82
11	19	Maalae11	339.25
12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01
19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00
23	8	MaalaeX2	588.00

Year: 2007 Period: 7

Unit Reserve Dispatch Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	29	M19&18	156.86
4	24	M14&15	157.22
5	25	M15&16	157.22
6	21	Maalae13	168.31
7	11	Maalaea3	196.00
8	28	M17&18	235.29
9	20	Maalae12	252.46
10	10	Maalaea2	294.00
11	2	Kahului2	308.78
12	1	Kahului1	310.81
13	19	Maalae11	336.61

14	9	Maalaea1	392.00
15	18	Maalae10	420.76
16	17	Maalaea9	445.17
17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 7

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75
4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45
7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53
14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11

40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 8

Unit Commitment Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	24 M14&15	157.22
4	25 M15&16	157.22
5	28 M17&18	235.29
6	29 M19&18	156.86
7	21 Maalae13	169.63
8	20 Maalae12	254.44
9	2 Kahului2	308.78
10	1 Kahului1	310.82
11	19 Maalae11	339.25
12	18 Maalae10	424.06
13	17 Maalaea9	448.85
14	16 Maalaea8	538.62
15	14 Maalaea6	557.34
16	12 Maalaea4	650.23
17	15 Maalaea7	743.12
18	13 Maalaea5	836.01
19	11 Maalaea3	196.00
20	10 Maalaea2	294.00
21	9 Maalaea1	392.00
22	7 MaalaeX1	490.00
23	8 MaalaeX2	588.00

Year: 2007 Period: 8

Unit Reserve Dispatch Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82

3	29	M19&18	156.86
4	24	M14&15	157.22
5	25	M15&16	157.22
6	21	Maalae13	168.31
7	11	Maalaea3	196.00
8	28	M17&18	235.29
9	20	Maalae12	252.46
10	10	Maalaea2	294.00
11	2	Kahului2	308.78
12	1	Kahului1	310.81
13	19	Maalae11	336.61
14	9	Maalaea1	392.00
15	18	Maalae10	420.76
16	17	Maalaea9	445.17
17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 8

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75
4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45
7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53
14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48

29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 9

Unit Commitment Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	29	M19&18	156.86
7	21	Maalae13	169.63
8	20	Maalae12	254.44
9	2	Kahului2	308.78
10	1	Kahului1	310.82
11	19	Maalae11	339.25
12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01
19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00

23	8 MaalaeX2	588.00

Year: 2007 Period: 9

Unit Reserve Dispatch Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	29 M19&18	156.86
4	24 M14&15	157.22
5	25 M15&16	157.22
6	21 Maalae13	168.31
7	11 Maalaea3	196.00
8	28 M17&18	235.29
9	20 Maalae12	252.46
10	10 Maalaea2	294.00
11	2 Kahului2	308.78
12	1 Kahului1	310.81
13	19 Maalae11	336.61
14	9 Maalaea1	392.00
15	18 Maalae10	420.76
16	17 Maalaea9	445.17
17	7 MaalaeX1	490.00
18	16 Maalaea8	534.21
19	14 Maalaea6	554.73
20	8 MaalaeX2	588.00
21	12 Maalaea4	647.19
22	15 Maalaea7	739.64
23	13 Maalaea5	832.10

Year: 2007 Period: 9

Segment Dispatch Priority List

Priority	Station	Segment	Cost
1	3 Kahului3	2	112.12
2	3 Kahului3	3	116.01
3	4 Kahului4	2	117.75
4	3 Kahului3	4	119.89
5	12 Maalaea4	2	122.45
6	13 Maalaea5	2	122.45
7	14 Maalaea6	2	122.45
8	15 Maalaea7	2	122.45
9	16 Maalaea8	2	124.80
10	17 Maalaea9	2	124.80
11	4 Kahului4	3	126.64
12	1 Kahului1	2	132.99
13	4 Kahului4	4	135.53
14	18 Maalae10	2	137.11
15	19 Maalae11	2	137.11
16	20 Maalae12	2	137.11
17	21 Maalae13	2	137.11

18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 10

Unit Commitment Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	29	M19&18	156.86
7	21	Maalae13	169.63
8	20	Maalae12	254.44
9	2	Kahului2	308.78
10	1	Kahului1	310.82
11	19	Maalae11	339.25

12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01
19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00
23	8	MaalaeX2	588.00

Year: 2007 Period: 10

Unit Reserve Dispatch Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	29	M19&18	156.86
4	24	M14&15	157.22
5	25	M15&16	157.22
6	21	Maalae13	168.31
7	11	Maalaea3	196.00
8	28	M17&18	235.29
9	20	Maalae12	252.46
10	10	Maalaea2	294.00
11	2	Kahului2	308.78
12	1	Kahului1	310.81
13	19	Maalae11	336.61
14	9	Maalaea1	392.00
15	18	Maalae10	420.76
16	17	Maalaea9	445.17
17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 10

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75
4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45

7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53
14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66
43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 11

Unit Commitment Priority List

Priority	Station	Cost
1	3 Kahului3	125.43

2	4	Kahului4	134.82
3	24	M14&15	157.22
4	25	M15&16	157.22
5	28	M17&18	235.29
6	2	Kahului2	308.78
7	1	Kahului1	310.82
8	29	M19&18	156.86
9	21	Maalae13	169.63
10	20	Maalae12	254.44
11	19	Maalae11	339.25
12	18	Maalae10	424.06
13	17	Maalaea9	448.85
14	16	Maalaea8	538.62
15	14	Maalaea6	557.34
16	12	Maalaea4	650.23
17	15	Maalaea7	743.12
18	13	Maalaea5	836.01
19	11	Maalaea3	196.00
20	10	Maalaea2	294.00
21	9	Maalaea1	392.00
22	7	MaalaeX1	490.00
23	8	MaalaeX2	588.00

Year: 2007 Period: 11

Unit Reserve Dispatch Priority List

Priority	Station		Cost
1	3	Kahului3	125.43
2	4	Kahului4	134.82
3	29	M19&18	156.86
4	24	M14&15	157.22
5	25	M15&16	157.22
6	21	Maalae13	168.31
7	11	Maalaea3	196.00
8	28	M17&18	235.29
9	20	Maalae12	252.46
10	10	Maalaea2	294.00
11	2	Kahului2	308.78
12	1	Kahului1	310.81
13	19	Maalae11	336.61
14	9	Maalaea1	392.00
15	18	Maalae10	420.76
16	17	Maalaea9	445.17
17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 11

Segment Dispatch Priority List

Priority	Station	Segment	Cost
1	3 Kahului3	2	112.12
2	3 Kahului3	3	116.01
3	4 Kahului4	2	117.75
4	3 Kahului3	4	119.89
5	12 Maalaea4	2	122.45
6	13 Maalaea5	2	122.45
7	14 Maalaea6	2	122.45
8	15 Maalaea7	2	122.45
9	16 Maalaea8	2	124.80
10	17 Maalaea9	2	124.80
11	4 Kahului4	3	126.64
12	1 Kahului1	2	132.99
13	4 Kahului4	4	135.53
14	18 Maalae10	2	137.11
15	19 Maalae11	2	137.11
16	20 Maalae12	2	137.11
17	21 Maalae13	2	137.11
18	28 M17&18	2	140.36
19	28 M17&18	3	140.36
20	28 M17&18	4	140.36
21	2 Kahului2	2	141.04
22	24 M14&15	2	143.57
23	24 M14&15	3	143.57
24	24 M14&15	4	143.57
25	25 M15&16	2	143.57
26	25 M15&16	3	143.57
27	25 M15&16	4	143.57
28	1 Kahului1	3	145.48
29	2 Kahului2	3	146.24
30	2 Kahului2	4	151.44
31	29 M19&18	2	154.45
32	29 M19&18	3	154.45
33	29 M19&18	4	154.45
34	18 Maalae10	3	156.60
35	19 Maalae11	3	156.60
36	20 Maalae12	3	156.60
37	21 Maalae13	3	156.60
38	1 Kahului1	4	157.97
39	16 Maalaea8	3	159.11
40	17 Maalaea9	3	159.11
41	12 Maalaea4	3	168.66
42	13 Maalaea5	3	168.66
43	14 Maalaea6	3	168.66
44	15 Maalaea7	3	168.66
45	18 Maalae10	4	176.09
46	19 Maalae11	4	176.09
47	20 Maalae12	4	176.09
48	21 Maalae13	4	176.09
64	16 Maalaea8	4	193.43
65	17 Maalaea9	4	193.43
66	12 Maalaea4	4	214.88
67	13 Maalaea5	4	214.88

68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

Year: 2007 Period: 12

Unit Commitment Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	24 M14&15	157.22
4	25 M15&16	157.22
5	28 M17&18	235.29
6	29 M19&18	156.86
7	21 Maalae13	169.63
8	20 Maalae12	254.44
9	2 Kahului2	308.78
10	1 Kahului1	310.82
11	19 Maalae11	339.25
12	18 Maalae10	424.06
13	17 Maalaea9	448.85
14	16 Maalaea8	538.62
15	14 Maalaea6	557.34
16	12 Maalaea4	650.23
17	15 Maalaea7	743.12
18	13 Maalaea5	836.01
19	11 Maalaea3	196.00
20	10 Maalaea2	294.00
21	9 Maalaea1	392.00
22	7 MaalaeX1	490.00
23	8 MaalaeX2	588.00

Year: 2007 Period: 12

Unit Reserve Dispatch Priority List

Priority	Station	Cost
1	3 Kahului3	125.43
2	4 Kahului4	134.82
3	29 M19&18	156.86
4	24 M14&15	157.22
5	25 M15&16	157.22
6	21 Maalae13	168.31
7	11 Maalaea3	196.00
8	28 M17&18	235.29
9	20 Maalae12	252.46
10	10 Maalaea2	294.00
11	2 Kahului2	308.78
12	1 Kahului1	310.81
13	19 Maalae11	336.61
14	9 Maalaea1	392.00
15	18 Maalae10	420.76
16	17 Maalaea9	445.17

17	7	MaalaeX1	490.00
18	16	Maalaea8	534.21
19	14	Maalaea6	554.73
20	8	MaalaeX2	588.00
21	12	Maalaea4	647.19
22	15	Maalaea7	739.64
23	13	Maalaea5	832.10

Year: 2007 Period: 12

Segment Dispatch Priority List

Priority	Station		Segment	Cost
1	3	Kahului3	2	112.12
2	3	Kahului3	3	116.01
3	4	Kahului4	2	117.75
4	3	Kahului3	4	119.89
5	12	Maalaea4	2	122.45
6	13	Maalaea5	2	122.45
7	14	Maalaea6	2	122.45
8	15	Maalaea7	2	122.45
9	16	Maalaea8	2	124.80
10	17	Maalaea9	2	124.80
11	4	Kahului4	3	126.64
12	1	Kahului1	2	132.99
13	4	Kahului4	4	135.53
14	18	Maalae10	2	137.11
15	19	Maalae11	2	137.11
16	20	Maalae12	2	137.11
17	21	Maalae13	2	137.11
18	28	M17&18	2	140.36
19	28	M17&18	3	140.36
20	28	M17&18	4	140.36
21	2	Kahului2	2	141.04
22	24	M14&15	2	143.57
23	24	M14&15	3	143.57
24	24	M14&15	4	143.57
25	25	M15&16	2	143.57
26	25	M15&16	3	143.57
27	25	M15&16	4	143.57
28	1	Kahului1	3	145.48
29	2	Kahului2	3	146.24
30	2	Kahului2	4	151.44
31	29	M19&18	2	154.45
32	29	M19&18	3	154.45
33	29	M19&18	4	154.45
34	18	Maalae10	3	156.60
35	19	Maalae11	3	156.60
36	20	Maalae12	3	156.60
37	21	Maalae13	3	156.60
38	1	Kahului1	4	157.97
39	16	Maalaea8	3	159.11
40	17	Maalaea9	3	159.11
41	12	Maalaea4	3	168.66
42	13	Maalaea5	3	168.66

43	14	Maalaea6	3	168.66
44	15	Maalaea7	3	168.66
45	18	Maalae10	4	176.09
46	19	Maalae11	4	176.09
47	20	Maalae12	4	176.09
48	21	Maalae13	4	176.09
64	16	Maalaea8	4	193.43
65	17	Maalaea9	4	193.43
66	12	Maalaea4	4	214.88
67	13	Maalaea5	4	214.88
68	14	Maalaea6	4	214.88
69	15	Maalaea7	4	214.88

CA-IR-59

Ref: T-4, page 36, lines 8 – 10.

Please referenced section of testimony indicates that MECO uses biodiesel fuel in its Maalaea 12 and 13 generating units during startup and shutdown sequences.

a. Please indicate the amount of biodiesel fuel that is used for each startup or shutdown sequence in Maalaea 12 and 13.

b. Please provide the calculations used to determine the biodiesel fuel expense for the test year.

MECO Response:

a. Based on historical MECO biodiesel consumption in 2004 and 2005, and the amount of startup and shutdown cycles in those years, a reasonable assumption of 150 gallons per startup and shutdown sequence was used for the test year. See MECO-WP-408, page 7 for the historical biodiesel fuel consumption.

2004 biodiesel consumption = 6,485 gallons

2005 biodiesel consumption = 10,100 gallons

2004 M12 and M13 startup and shutdown cycles = 36

2005 M12 and M13 startup and shutdown cycles = 54

b. Please refer to MECO-WP-408, page 6 for the biodiesel fuel consumption and expense for the test year. The test year startup and shutdown cycle data is from MECO-WP-404, page 7 in the "Cold Start" column for Maalaea units M12 and M13, as shown in line 2 of MECO-WP-408, page 6. The 150 gallons approximation per startup and shutdown cycle cited in response to item a. above, is line 3 of MECO-WP-408, page 6.

CA-IR-60

Ref: T-4, page 51, lines 1 – 11.

The referenced testimony indicates that the gross heat rate for the entire Molokai Division system was used to calculate the fuel consumption.

a. Please provide historical heat rates for each generating unit in the Molokai Division, annually from 2001 through 2006.

b. Please provide the number of hours that each Molokai Division generating unit was run, monthly from 2001 through 2006.

c. Please provide the amount of fuel consumed by each Molokai Division generating unit, monthly from 2001 through 2006.

d. Please provide the amount of energy produced by each Molokai Division generating unit, monthly from 2001 through 2006.

MECO Response:

a. Partial net system data are provided in MECO-WP-407, page 2. Please refer to pages 3 and 4 of this response for the 2001-2006 gross individual unit heat rates. Due to different fuel consumption recording methods from 2001 to 2003, the system heat rates provided in the tables in this response are different in 2001-2003 when compared to the system gross heat rates shown on MECO-WP-404, page 98. Beginning in 2004, a consistent reporting method was established. Hence, the values in 2004-2006 are consistent between MECO-WP-404, page 98 and the tables provided below. For the purposes of this proceeding, MECO is relying on the values provided in MECO-WP-404, page 98. The tables provided in this response are for reference only and are provided to be responsive to the Consumer Advocate's request for monthly breakdowns.

b. Please refer to pages 5 and 6 of this response.

c. Partial net system data are provided in MECO-WP-407, page 2. Please refer to pages 7 and 8 of this response for the 2001-2006 fuel consumption. Due to different fuel

consumption recording methods from 2001 to 2003, the total amounts of fuel consumed by unit provided in the tables in this response are different in 2001-2003 when compared to the total amounts of annual fuel consumed shown on MECO-WP-404, page 98. (The values provided in this response are in terms of gallons of fuel consumption while the values provided in MECO-WP-404, page 98, are provided in terms of Btus. The conversion from gallons to Btu can be made by multiplying the number of gallons by 139,524 Btu per gallon.) Beginning in 2004, a consistent reporting method was established. Hence, the values in 2004-2006 are consistent between MECO-WP-404, page 98 and the tables provided below. For the purposes of this proceeding, MECO is relying on the values provided in MECO-WP-404, page 98. The tables provided in this response are for reference only and are provided to be responsive to the Consumer Advocate's request for monthly breakdowns.

d. Partial net system data are provided in MECO-WP-407, page 2. Please refer to pages 9 and 10 of this response for the 2001-2006 gross energy generated per unit.

a. Molokai Division Gross Historical Heat Rates 2001-2006

	2001 Molokai Gross Heat Rate (btu/kwh)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	Monthly Total
Jan	11,315	11,358	11,433	11,817	13,445	11,057	10,135	9,658	10,081	-	9,953
Feb	12,712	12,389	11,031	11,602	10,877	11,134	10,086	9,655	10,085	21,553	9,970
Mar	11,731	10,767	12,054	12,024	12,530	11,011	10,049	9,615	10,087	19,921	9,933
Apr	11,322	11,145	11,378	11,211	11,237	11,310	10,025	9,571	10,100	21,022	9,977
May	11,413	10,997	11,269	11,875	11,398	11,125	10,002	9,617	10,081	18,791	9,957
Jun	10,393	11,336	11,992	11,085	11,264	11,162	10,048	9,667	10,188	19,519	9,986
Jul	13,160	11,058	10,741	11,497	11,361	11,197	10,112	9,727	10,210	19,278	10,034
Aug	11,127	10,999	11,372	12,235	11,915	11,082	10,033	9,598	9,859	17,964	9,874
Sep	11,491	11,345	11,216	11,309	11,352	11,086	10,104	9,604	9,865	30,994	9,993
Oct	11,484	11,198	12,167	11,492	11,444	11,092	9,716	9,568	9,786	16,640	9,931
Nov	11,490	-	11,156	11,407	11,536	11,252	9,795	9,668	10,048	19,923	9,944
Dec	11,421	-	11,213	11,372	11,571	11,050	9,819	9,725	10,059	20,526	10,030
Total	11,457	11,226	11,279	11,436	11,460	11,132	9,992	9,637	10,028	19,716	9,965

	2002 Molokai Gross Heat Rate (btu/kwh)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	Monthly Total
Jan	11,741	-	11,531	11,582	11,582	11,270	9,866	9,731	10,119	21,599	9,951
Feb	11,317	11,221	17,022	11,491	11,442	11,066	9,820	9,594	9,892	20,258	9,985
Mar	11,421	10,998	12,043	11,352	11,568	11,095	9,883	9,828	9,725	21,170	9,868
Apr	11,196	11,542	10,708	11,937	11,559	11,156	9,916	9,768	9,761	18,425	9,886
May	11,589	11,260	12,185	10,371	12,521	11,305	9,930	9,842	9,761	19,295	9,922
Jun	10,838	12,524	11,275	11,709	11,320	11,242	9,959	9,851	9,746	17,576	9,906
Jul	11,796	-	11,496	11,685	11,470	11,113	9,965	9,858	9,736	19,254	9,915
Aug	12,557	13,604	11,717	12,346	12,274	11,732	10,086	10,002	9,948	19,185	10,053
Sep	-	-	11,611	11,897	11,529	11,387	10,150	10,043	9,937	18,468	10,081
Oct	10,387	-	11,490	11,622	11,622	11,346	10,159	10,087	9,980	20,626	10,117
Nov	11,406	9,069	11,078	11,956	12,380	11,658	10,121	10,054	9,979	17,989	10,086
Dec	11,618	-	12,063	12,278	11,467	11,365	10,164	10,067	10,001	19,185	10,134
Total	11,439	11,294	11,561	11,615	11,591	11,235	9,996	9,892	9,883	19,368	9,993

	2003 Molokai Gross Heat Rate (btu/kwh)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	Monthly Total
Jan	11,729	-	12,024	11,984	12,505	12,198	10,158	10,040	9,972	21,465	10,101
Feb	11,486	32,090	-	11,555	11,720	11,113	10,153	10,051	10,010	21,556	10,137
Mar	*12,018*	*29,823*	*11,627*	*13,158*	*11,237*	*11,333*	*10,122*	*9,980*	*9,974*	*18,749*	*10,140*
Apr	10,967	-	11,344	8,665	-	11,307	10,042	9,900	9,716	23,196	9,901
May	11,439	14,650	11,117	11,511	-	10,831	10,121	9,948	9,737	-	9,945
Jun	11,511	9,767	-	11,793	12,813	11,860	10,260	10,090	10,025	27,755	10,156
Jul	11,415	-	-	11,403	11,679	10,981	10,222	10,081	10,043	17,485	10,198
Aug	11,494	-	-	11,673	12,688	11,591	10,213	10,034	10,008	19,243	10,118
Sep	11,649	-	12,916	11,478	11,833	11,527	10,238	10,095	10,118	20,358	10,200
Oct	11,422	-	11,521	12,096	11,084	11,174	10,215	10,073	9,974	-	10,115
Nov	11,523	-	-	11,578	11,618	11,165	10,163	10,029	10,075	17,789	10,316
Dec	11,798	-	-	10,927	11,637	11,232	10,170	9,977	10,062	18,433	10,131
Total	11,514	13,171	11,688	11,553	11,688	11,219	10,180	10,024	9,972	19,348	10,122

a. Molokai Division Gross Historical Heat Rates 2001-2006 (continued)

	2004 Molokai Gross Heat Rate (btu/kwh)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	Monthly Total
Jan	10,722	-	-	11,175	11,040	10,474	9,592	9,396	9,458	19,751	9,567
Feb	10,744	-	-	10,820	10,980	10,512	9,543	9,518	9,494	19,207	9,715
Mar	10,777	-	11,500	10,874	11,009	10,439	9,571	9,546	9,460	17,974	9,581
Apr	10,685	9,795	11,657	11,135	10,975	37,874	9,676	9,606	9,464	-	9,634
May	11,137	9,548	-	10,917	11,402	10,796	9,876	9,729	9,522	-	9,736
Jun	10,740	-	-	10,583	11,173	10,410	9,836	9,745	9,463	-	9,718
Jul	10,911	8,923	-	10,892	11,223	10,673	10,033	9,852	9,569	-	10,085
Aug	10,854	11,309	-	10,619	11,204	10,660	9,737	9,522	9,523	-	9,739
Sep	10,879	-	-	-	10,852	10,362	9,657	9,382	9,455	-	9,521
Oct	10,981	-	-	20,180	11,206	10,833	9,756	9,470	9,519	-	9,600
Nov	10,904	-	-	-	11,151	10,704	9,820	9,504	9,420	-	9,601
Dec	10,792	-	-	-	11,234	10,678	9,775	9,520	9,410	-	9,613
Total	10,840	10,185	11,575	10,897	11,116	10,615	9,739	9,569	9,476	19,306	9,677

	2005 Molokai Gross Heat Rate (btu/kwh)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	Monthly Total
Jan	10,813	-	-	11,171	11,188	10,619	9,803	9,526	9,468	-	9,638
Feb	11,090	-	-	10,544	10,971	10,467	9,731	9,468	9,419	-	9,606
Mar	10,738	-	12,186	10,908	11,365	10,705	10,058	9,573	9,526	-	9,777
Apr	10,732	-	9,806	10,709	11,181	10,703	9,896	9,541	9,386	-	9,674
May	10,738	-	9,369	11,033	10,698	10,083	9,817	9,532	9,464	-	9,649
Jun	11,187	-	11,374	-	11,242	10,606	9,613	9,501	9,511	-	9,567
Jul	10,781	-	10,753	-	11,138	10,270	9,655	9,562	9,537	-	9,608
Aug	10,825	-	11,017	-	11,120	10,869	9,634	9,512	9,454	36,006	9,569
Sep	10,650	-	10,993	-	11,097	10,544	9,698	9,549	9,521	53,702	9,658
Oct	10,729	-	10,981	-	11,058	10,519	9,703	9,557	9,560	30,591	9,646
Nov	10,719	-	10,904	-	11,091	10,498	9,684	9,581	9,535	-	9,691
Dec	11,042	-	11,029	-	11,068	10,571	9,761	9,584	9,572	48,491	9,703
Total	10,776	-	10,896	10,768	11,098	10,522	9,741	9,542	9,496	40,016	9,648

	2006 Molokai Gross Heat Rate (btu/kwh)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	Monthly Total
Jan	10,719	-	11,175	10,887	11,520	10,903	9,767	9,576	9,487	-	9,660
Feb	10,648	-	-	11,311	11,081	10,441	9,823	9,614	9,523	-	9,689
Mar	10,788	-	-	10,847	11,218	10,789	9,842	9,576	9,548	-	9,701
Apr	10,968	11,250	-	11,140	11,165	10,889	10,152	9,607	9,461	-	9,742
May	10,585	-	-	10,998	11,037	10,772	10,052	9,607	9,592	-	9,737
Jun	10,972	10,943	-	11,093	11,146	10,671	10,055	9,609	9,636	-	9,820
Jul	10,858	25,999	-	11,029	11,225	10,643	10,054	9,626	9,687	-	9,852
Aug	10,816	-	-	10,979	11,208	10,720	9,784	9,673	9,707	-	9,923
Sep	10,800	-	-	11,154	11,206	10,707	9,670	9,640	9,659	-	9,746
Oct	10,891	14,268	-	10,967	11,235	10,670	9,642	9,672	9,747	-	9,787
Nov	10,905	-	-	10,946	11,103	10,774	9,619	9,678	9,688	-	9,729
Dec	10,854	-	-	11,081	11,225	10,795	9,624	9,647	9,661	-	9,771
Total	10,835	11,680	11,175	11,016	11,196	10,725	9,824	9,629	9,613	-	9,765

b. Molokai Division Run Hours 2001-2006

	2001 Molokai Unit Run Hours										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	12	9	6	8	6	77	450	690	697	-	1,955
Feb	6	9	10	18	7	70	651	663	425	6	1,865
Mar	14	9	10	10	8	98	791	773	506	5	2,224
Apr	37	44	22	19	24	110	591	549	524	5	1,925
May	48	28	20	16	31	98	680	731	524	9	2,185
Jun	11	7	7	11	21	67	703	702	524	7	2,060
Jul	8	13	17	12	11	86	754	753	594	4	2,252
Aug	21	38	14	7	10	55	742	714	636	5	2,242
Sep	95	133	75	92	108	90	424	743	650	3	2,413
Oct	234	21	20	117	147	149	400	705	577	6	2,376
Nov	53	-	68	59	55	144	720	617	458	5	2,179
Dec	116	-	90	118	53	140	744	459	521	4	2,245
Total	655	311	359	487	481	1,184	7,650	8,099	6,636	59	25,921

	2002 Molokai Unit Run Hours										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	41	-	15	13	21	89	667	727	499	5	2,077
Feb	41	-	15	13	21	89	667	727	499	5	2,077
Mar	19	18	16	14	9	80	750	431	762	4	2,103
Apr	18	13	19	12	16	73	683	675	426	5	1,940
May	14	16	11	5	12	83	737	691	506	5	2,080
Jun	16	14	13	19	15	68	577	735	656	4	2,117
Jul	16	-	27	20	21	58	642	715	602	4	2,105
Aug	6	1	16	7	12	30	725	707	656	5	2,165
Sep	-	-	10	15	14	45	740	608	732	5	2,169
Oct	3	-	28	17	25	54	579	703	734	4	2,147
Nov	65	2	8	13	9	28	464	693	702	2	1,986
Dec	95	-	14	15	14	11	613	683	686	5	2,136
Total	*334*	*64*	*192*	*163*	*189*	*708*	*7,844*	*8,095*	*7,460*	*53*	*25,102*

	2003 Molokai Unit Run Hours										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	71	-	13	17	9	13	454	739	744	4	2,064
Feb	99	1	-	23	10	22	503	607	617	5	1,887
Mar	92	2	14	30	5	28	597	712	635	11	2,126
Apr	95	3	8	15	-	15	465	704	715	4	2,024
May	83	1	6	19	-	12	562	758	759	-	2,200
Jun	45	1	-	14	10	14	914	712	720	3	2,433
Jul	79	-	-	48	37	25	653	708	686	11	2,247
Aug	41	-	-	15	6	7	663	742	740	5	2,219
Sep	51	-	6	24	21	17	704	687	631	3	2,144
Oct	55	-	27	20	6	18	664	744	702	-	2,236
Nov	107	-	-	145	236	325	275	670	708	8	2,474
Dec	26	-	-	29	90	35	607	626	716	3	2,132
Total	844	8	74	399	430	531	7,061	8,409	8,373	57	26,186

b. Molokai Division Run Hours 2001-2006 (continued)

	2004 Molokai Unit Run Hours										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	61	-	-	58	128	55	379	742	732	5	2,160
Feb	176	-	-	149	180	147	613	283	696	6	2,250
Mar	89	-	10	2	75	13	681	530	696	1	2,097
Apr	114	8	9	16	55	1	633	561	661	-	2,058
May	38	4	-	47	22	18	599	676	696	-	2,100
Jun	43	-	-	35	28	51	638	715	597	-	2,107
Jul	445	3	-	196	250	300	550	732	363	-	2,839
Aug	209	7	-	12	173	191	660	504	744	-	2,500
Sep	41	-	-	-	36	32	645	665	720	-	2,139
Oct	35	-	-	1	33	21	655	734	731	-	2,210
Nov	69	-	-	-	46	48	517	694	719	-	2,093
Dec	68	-	-	-	62	46	655	600	728	-	2,159
Total	1,388	22	19	516	1,088	923	7,225	7,436	8,083	12	26,712

	2005 Molokai Unit Run Hours										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	40	-	-	14	38	37	685	548	717	-	2,079
Feb	17	-	-	81	76	96	541	486	647	-	1,944
Mar	160	-	14	107	128	107	414	744	744	-	2,418
Apr	53	-	1	44	39	41	700	606	591	-	2,075
May	95	-	24	9	73	74	672	690	663	-	2,300
Jun	18	-	17	-	21	28	714	719	610	-	2,127
Jul	28	-	22	-	27	10	744	735	655	-	2,221
Aug	36	-	33	-	21	17	700	734	728	4	2,273
Sep	77	-	41	-	77	65	640	720	660	3	2,283
Oct	30	-	33	-	43	12	744	744	600	2	2,208
Nov	85	-	99	-	99	83	715	528	649	-	2,258
Dec	55	-	45	-	62	71	640	672	640	2	2,187
Total	694	-	329	255	704	641	7,909	7,926	7,904	11	26,373

	2006 Molokai Unit Run Hours										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	52	-	12	12	41	39	744	548	696	-	2,144
Feb	45	-	-	7	36	29	661	460	671	-	1,909
Mar	45	-	-	40	37	38	693	573	698	-	2,124
Apr	69	7	-	57	85	36	394	720	694	-	2,062
May	31	-	-	19	47	42	487	743	732	-	2,101
Jun	64	12	-	24	69	67	675	607	696	-	2,214
Jul	100	1	-	92	69	85	646	731	683	-	2,407
Aug	261	-	-	226	201	302	379	660	744	-	2,773
Sep	116	-	-	72	78	107	719	548	687	-	2,327
Oct	115	1	-	122	105	115	732	665	575	-	2,430
Nov	69	-	-	81	77	37	603	720	565	-	2,152
Dec	25	-	-	8	39	33	-	72	72	-	249
Total	992	21	12	760	884	930	6,733	7,047	7,513	-	24,892

c. Molokai Division Historical Fuel Consumption 2001-2006

	2001 Molokai Fuel Consumption (gallons)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	665	521	295	415	318	4,018	51,531	88,007	80,723	-	226,493
Feb	328	515	506	923	382	3,639	75,871	85,911	47,964	1,174	217,213
Mar	824	463	527	474	458	5,122	91,596	100,835	55,264	1,028	256,591
Apr	2,045	2,700	1,052	908	1,353	5,715	68,682	72,889	58,374	904	214,622
May	2,814	1,734	1,050	783	1,789	5,103	79,036	95,648	58,324	1,670	247,951
Jun	581	455	361	580	1,219	3,432	80,034	90,241	56,677	1,343	234,923
Jul	415	745	893	651	627	4,526	87,637	97,562	67,675	829	261,560
Aug	1,260	2,428	758	342	538	2,915	85,593	89,973	71,670	824	256,301
Sep	5,304	7,822	3,931	4,928	6,322	4,823	49,426	95,001	75,337	622	253,516
Oct	13,153	1,236	968	6,161	8,522	7,823	48,199	88,481	66,694	1,288	242,525
Nov	2,981	-	3,550	3,074	3,084	7,282	84,949	77,793	54,476	971	238,160
Dec	6,352	-	4,645	6,105	2,944	7,310	87,221	56,208	64,557	765	236,107
Total	36,722	18,619	18,536	25,344	27,556	61,708	889,775	1,038,549	757,735	11,418	2,885,962

	2002 Molokai Fuel Consumption (gallons)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	2,272	-	719	606	1,104	4,491	76,622	85,978	57,569	805	230,166
Feb	10,139	6,482	61	7,289	5,765	7,003	77,183	81,676	7,355	755	203,708
Mar	1,015	1,072	820	716	456	4,143	86,100	46,449	93,147	789	234,707
Apr	979	728	921	616	845	3,862	80,056	81,510	49,655	898	220,070
May	814	920	655	223	700	4,270	91,290	80,348	57,974	1,051	238,245
Jun	870	754	695	1,049	860	3,505	69,314	84,986	79,062	907	242,002
Jul	930	-	1,376	1,005	1,192	2,947	79,132	83,064	70,658	828	241,132
Aug	324	39	781	292	607	1,522	88,079	84,424	78,910	825	255,803
Sep	-	-	491	793	785	2,277	88,545	71,411	90,520	953	255,775
Oct	134	-	1,400	808	1,416	2,716	68,566	81,469	90,725	887	248,121
Nov	3,695	91	397	617	559	1,387	54,993	81,382	87,445	361	230,927
Dec	5,146	-	683	704	715	448	72,514	80,305	84,296	880	245,691
Total	26,318	10,086	8,999	14,718	15,004	38,571	932,394	943,002	847,316	9,939	2,846,347

	2003 Molokai Fuel Consumption (gallons)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	3,783	-	586	773	717	612	52,776	84,440	91,948	800	236,435
Feb	5,417	46	-	1,176	588	1,147	59,478	70,827	76,444	927	216,050
Mar	5,444	342	725	1,773	298	1,527	71,634	84,265	76,052	2,150	244,210
Apr	5,125	-	374	590	-	778	55,014	83,831	84,997	798	231,507
May	4,542	42	247	957	-	590	66,232	89,594	92,270	-	254,474
Jun	2,409	42	-	710	551	714	71,996	82,495	88,542	557	248,016
Jul	4,647	-	-	2,558	2,168	1,275	80,282	84,851	85,406	2,356	263,543
Aug	2,389	-	-	753	291	324	80,949	89,978	87,967	993	263,644
Sep	2,822	-	324	1,234	1,111	884	89,927	82,386	75,929	642	255,259
Oct	3,078	-	1,346	997	286	905	82,164	88,147	85,805	-	262,728
Nov	5,847	-	-	7,560	13,606	16,773	33,163	84,528	84,098	1,683	247,258
Dec	1,353	-	-	1,488	5,171	1,763	73,440	75,206	84,510	687	243,618
Total	46,856	472	3,602	20,569	24,787	27,292	817,055	1,000,548	1,013,968	11,593	2,966,742

c. Molokai Division Historical Fuel Consumption 2001-2006 (continued)

	2004 Molokai Fuel Consumption (gallons)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	3,274	-	-	2,843	6,757	2,717	41,694	85,306	79,722	906	223,219
Feb	9,102	-	-	7,290	9,507	7,082	72,477	31,432	76,876	991	214,757
Mar	4,588	-	486	94	3,937	584	79,028	58,044	74,891	206	221,858
Apr	6,035	309	451	774	2,965	27	74,389	61,188	72,392	-	218,530
May	2,059	178	-	2,433	1,128	867	70,995	78,549	76,933	-	233,142
Jun	2,232	-	-	1,608	1,385	2,529	74,939	81,019	66,914	-	230,626
Jul	23,179	102	-	9,610	13,063	14,282	68,772	84,348	41,219	-	254,575
Aug	10,985	389	-	578	9,058	9,107	77,909	57,844	82,787	-	248,657
Sep	2,027	-	-	-	1,929	1,597	75,086	75,290	80,149	-	236,078
Oct	1,794	-	-	58	1,695	1,017	75,502	82,132	81,750	-	243,948
Nov	3,532	-	-	-	2,430	2,363	60,301	80,475	79,653	-	228,754
Dec	3,573	-	-	-	3,213	2,204	78,768	67,661	79,204	-	234,623
Total	72,380	978	937	25,288	57,067	44,376	849,860	843,288	892,490	2,103	2,788,767

	2005 Molokai Fuel Consumption (gallons)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	1,984	-	-	625	1,933	1,834	82,009	60,502	78,182	-	227,069
Feb	858	-	-	3,975	4,018	4,681	64,941	54,607	70,432	-	203,512
Mar	7,958	-	594	4,839	6,248	4,918	44,900	82,991	79,715	-	232,163
Apr	2,769	-	28	2,095	2,004	1,979	86,153	66,605	63,687	-	225,320
May	4,756	-	967	451	3,535	3,353	81,473	77,275	73,847	-	245,657
Jun	866	-	831	-	1,023	1,345	83,805	79,506	66,538	-	233,914
Jul	1,499	-	1,071	-	1,389	449	87,164	81,432	71,573	-	244,577
Aug	1,707	-	1,579	-	933	779	80,944	82,353	81,311	413	250,019
Sep	3,984	-	2,056	-	4,024	3,189	74,357	81,062	73,340	308	242,320
Oct	1,599	-	1,613	-	2,211	543	87,627	83,427	65,813	263	243,096
Nov	4,394	-	4,799	-	5,159	4,025	85,529	58,922	71,524	-	234,352
Dec	2,659	-	2,126	-	3,173	3,402	74,777	76,600	70,593	278	233,608
Total	35,033	-	15,664	11,985	35,650	30,497	933,679	885,282	866,555	1,262	2,815,607

	2006 Molokai Fuel Consumption (gallons)										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	2,627	-	569	570	2,048	1,915	89,259	59,494	76,076	-	232,558
Feb	2,381	-	-	300	1,843	1,354	78,950	49,806	73,242	-	207,876
Mar	2,304	-	-	1,858	1,841	1,786	83,486	62,986	77,372	-	231,633
Apr	3,805	468	-	3,010	4,665	1,889	44,556	79,614	79,033	-	217,040
May	1,654	-	-	938	2,476	2,069	53,708	82,767	85,240	-	228,852
Jun	3,193	455	-	1,113	3,603	3,205	75,969	66,675	78,873	-	233,086
Jul	5,074	75	-	4,458	3,459	4,028	74,179	81,479	75,645	-	248,397
Aug	13,519	-	-	11,158	10,475	14,652	43,091	76,985	83,834	-	253,714
Sep	6,022	-	-	3,486	4,056	5,157	83,426	61,665	77,225	-	241,037
Oct	5,730	41	-	5,974	5,371	5,583	81,589	74,794	64,669	-	243,751
Nov	3,564	-	-	3,946	4,003	1,761	69,724	81,429	63,866	-	228,293
Dec	6,986	-	-	4,829	6,203	6,081	54,988	77,158	72,441	-	228,686
Total	56,859	1,039	569	41,640	50,043	49,480	832,925	854,852	907,516	-	2,794,923

d. Molokai Division Gross Energy Production by Unit 2001-2006

	2001 Molokai Gross KWH										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	8,200	6,400	3,600	4,900	3,300	50,700	709,380	1,271,340	1,117,200	-	3,175,020
Feb	3,600	5,800	6,400	11,100	4,900	45,600	1,049,580	1,241,520	663,600	7,600	3,039,700
Mar	9,800	6,000	6,100	5,500	5,100	64,900	1,271,760	1,463,280	764,400	7,200	3,604,040
Apr	25,200	33,800	12,900	11,300	16,800	70,500	955,920	1,062,600	806,400	6,000	3,001,420
May	34,400	22,000	13,000	9,200	21,900	64,000	1,102,500	1,387,680	807,240	12,400	3,474,320
Jun	7,800	5,600	4,200	7,300	15,100	42,900	1,111,320	1,302,420	776,160	9,600	3,282,400
Jul	4,400	9,400	11,600	7,900	7,700	56,400	1,209,180	1,399,440	924,840	6,000	3,636,860
Aug	15,800	30,800	9,300	3,900	6,300	36,700	1,190,280	1,307,880	1,014,300	6,400	3,621,660
Sep	64,400	96,200	48,900	60,800	77,700	60,700	682,500	1,380,120	1,065,540	2,800	3,539,660
Oct	159,800	15,400	11,100	74,800	103,900	98,400	692,160	1,290,240	950,880	10,800	3,407,480
Nov	36,200	-	44,400	37,600	37,300	90,300	1,210,020	1,122,660	756,420	6,800	3,341,700
Dec	77,600	-	57,800	74,900	35,500	92,300	1,239,420	806,400	895,440	5,200	3,284,560
Total	447,200	231,400	229,300	309,200	335,500	773,400	12,424,020	15,035,580	10,542,420	80,800	40,408,820

	2002 Molokai Gross KWH										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	27,000	-	8,700	7,300	13,300	55,600	1,083,600	1,232,700	793,800	5,200	3,227,200
Feb	125,000	80,600	500	88,500	70,300	88,300	1,096,620	1,187,760	103,740	5,200	2,846,520
Mar	12,400	13,600	9,500	8,800	5,500	52,100	1,215,480	659,400	1,336,440	5,200	3,318,420
Apr	12,200	8,800	12,000	7,200	10,200	48,300	1,126,440	1,164,240	709,800	6,800	3,105,980
May	9,800	11,400	7,500	3,000	7,800	52,700	1,282,680	1,139,040	828,660	7,600	3,350,180
Jun	11,200	8,400	8,600	12,500	10,600	43,500	971,040	1,203,720	1,131,900	7,200	3,408,660
Jul	11,000	-	16,700	12,000	14,500	37,000	1,107,960	1,175,580	1,012,620	6,000	3,393,360
Aug	3,600	400	9,300	3,300	6,900	18,100	1,218,420	1,177,680	1,106,700	6,000	3,550,400
Sep	-	-	5,900	9,300	9,500	27,900	1,217,160	992,040	1,270,920	7,200	3,539,920
Oct	1,800	-	17,000	9,700	17,000	33,400	941,640	1,126,860	1,268,400	6,000	3,421,800
Nov	45,200	1,400	5,000	7,200	6,300	16,600	758,100	1,129,380	1,222,620	2,800	3,194,600
Dec	61,800	-	7,900	8,000	8,700	5,500	995,400	1,113,000	1,176,000	6,400	3,382,700
Total	321,000	124,600	108,600	176,800	180,600	479,000	13,014,540	13,301,400	11,961,600	71,600	39,739,740

	2003 Molokai Gross KWH										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	45,000	-	6,800	9,000	8,000	7,000	724,920	1,173,480	1,286,460	5,200	3,265,860
Feb	65,800	200	-	14,200	7,000	14,400	817,320	983,220	1,065,540	6,000	2,973,680
Mar	63,200	1,600	8,700	18,800	3,700	18,800	987,420	1,178,100	1,063,860	16,000	3,360,180
Apr	65,200	2,200	4,600	9,500	-	9,600	764,400	1,181,460	1,220,520	4,800	3,262,280
May	55,400	400	3,100	11,600	-	7,600	913,080	1,256,640	1,322,160	-	3,569,980
Jun	29,200	600	-	8,400	6,000	8,400	979,020	1,140,720	1,232,280	2,800	3,407,420
Jul	56,800	-	-	31,300	25,900	16,200	1,095,780	1,174,320	1,186,500	18,800	3,605,600
Aug	29,000	-	-	9,000	3,200	3,900	1,105,860	1,251,180	1,226,400	7,200	3,635,740
Sep	33,800	-	3,500	15,000	13,100	10,700	1,225,560	1,138,620	1,047,060	4,400	3,491,740
Oct	37,600	-	16,300	11,500	3,600	11,300	1,122,240	1,220,940	1,200,360	-	3,623,840
Nov	70,800	-	-	91,100	163,400	209,600	455,280	1,176,000	1,164,660	13,200	3,344,040
Dec	16,000	-	-	19,000	62,000	21,900	1,007,580	1,051,680	1,171,800	5,200	3,355,160
Total	567,800	5,000	43,000	248,400	295,900	339,400	11,198,460	13,926,360	14,187,600	83,600	40,895,520

d. Molokai Division Gross Energy Production by Unit 2001-2006 (continued)

	2004 Molokai Gross KWH										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	42,600	-	-	35,500	85,400	36,200	606,480	1,266,720	1,176,000	6,400	3,255,300
Feb	118,200	-	-	94,000	120,800	94,000	1,059,660	460,740	1,129,800	7,200	3,084,400
Mar	59,400	-	5,900	1,200	49,900	7,800	1,152,060	848,400	1,104,600	1,600	3,230,860
Apr	78,800	4,400	5,400	9,700	37,700	100	1,072,680	888,720	1,067,220	-	3,164,720
May	25,800	2,600	-	31,100	13,800	11,200	1,002,960	1,126,440	1,127,280	-	3,341,180
Jun	29,000	-	-	21,200	17,300	33,900	1,063,020	1,160,040	986,580	-	3,311,040
Jul	296,400	1,600	-	123,100	162,400	186,700	956,340	1,194,480	601,020	-	3,522,040
Aug	141,200	4,800	-	7,600	112,800	119,200	1,116,360	847,560	1,212,960	-	3,562,480
Sep	26,000	-	-	-	24,800	21,500	1,084,860	1,119,720	1,182,720	-	3,459,600
Oct	22,800	-	-	400	21,100	13,100	1,079,820	1,210,020	1,198,260	-	3,545,500
Nov	45,200	-	-	-	30,400	30,800	856,800	1,181,460	1,179,780	-	3,324,440
Dec	46,200	-	-	-	39,900	28,800	1,124,340	991,620	1,174,320	-	3,405,180
Total	931,600	13,400	11,300	323,800	716,300	583,300	12,175,380	12,295,920	13,140,540	15,200	40,206,740

	2005 Molokai Gross KWH										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	25,600	-	-	7,800	24,100	24,100	1,167,180	886,200	1,152,060	-	3,287,040
Feb	10,800	-	-	52,600	51,100	62,400	931,140	804,720	1,043,280	-	2,956,040
Mar	103,400	-	6,800	61,900	76,700	64,100	622,860	1,209,600	1,167,600	-	3,312,960
Apr	36,000	-	400	27,300	25,000	25,800	1,214,640	973,980	946,680	-	3,249,800
May	61,800	-	14,400	5,700	46,100	46,400	1,157,940	1,131,060	1,088,640	-	3,552,040
Jun	10,800	-	10,200	-	12,700	17,700	1,216,320	1,167,600	976,080	-	3,411,400
Jul	19,400	-	13,900	-	17,400	6,100	1,259,580	1,188,180	1,047,060	-	3,551,620
Aug	22,000	-	20,000	-	11,700	10,000	1,172,220	1,207,920	1,199,940	1,600	3,645,380
Sep	52,200	-	26,100	-	50,600	42,200	1,069,740	1,184,400	1,074,780	800	3,500,820
Oct	20,800	-	20,500	-	27,900	7,200	1,260,000	1,218,000	960,540	1,200	3,516,140
Nov	57,200	-	61,400	-	64,900	53,500	1,232,280	858,060	1,046,640	-	3,373,980
Dec	33,600	-	26,900	-	40,000	44,900	1,068,900	1,115,100	1,029,000	800	3,359,200
Total	453,600	-	200,600	155,300	448,200	404,400	13,372,800	12,944,820	12,732,300	4,400	40,716,420

	2006 Molokai Gross KWH										
	CAT 1	CAT 2	CUMMINS 3	CUMMINS 4	CUMMINS 5	CUMMINS 6	CAT 7	CAT 8	CAT 9	GT	TOTAL
Jan	34,200	-	7,100	7,300	24,800	24,500	1,275,120	866,880	1,118,880	-	3,358,780
Feb	31,200	-	-	3,700	23,200	18,100	1,121,400	722,820	1,073,100	-	2,993,520
Mar	29,800	-	-	23,900	22,900	23,100	1,183,560	917,700	1,130,640	-	3,331,600
Apr	48,400	5,800	-	37,700	58,300	24,200	612,360	1,156,260	1,165,500	-	3,108,520
May	21,800	-	-	11,900	31,300	26,800	745,500	1,202,040	1,239,840	-	3,279,180
Jun	40,600	5,800	-	14,000	45,100	41,900	1,054,200	968,100	1,141,980	-	3,311,680
Jul	65,200	400	-	56,400	43,000	52,800	1,029,420	1,181,040	1,089,480	-	3,517,740
Aug	174,400	-	-	141,800	130,400	190,700	614,460	1,110,480	1,204,980	-	3,567,220
Sep	77,800	-	-	43,600	50,500	67,200	1,203,720	892,500	1,115,520	-	3,450,840
Oct	73,400	400	-	76,000	66,700	73,000	1,180,620	1,078,980	925,680	-	3,474,780
Nov	45,600	-	-	50,300	50,300	22,800	1,011,360	1,173,900	919,800	-	3,274,060
Dec	89,800	-	-	60,800	77,100	78,600	797,160	1,115,940	1,046,220	-	3,265,620
Total	732,200	12,400	7,100	527,400	623,600	643,700	11,828,880	12,386,640	13,171,620	-	39,933,540

CA-IR-61

Ref: T-4, page 55, lines 16 – 26.

The referenced testimony indicates that the gross heat rate for the entire Lanai Division system was used to calculate the fuel consumption.

a. Please provide historical heat rates for each generating unit in the Lanai Division, annually from 2001 through 2006.

b. Please provide the number of hours that each Lanai Division generating unit was run, monthly from 2001 through 2006.

c. Please provide the amount of fuel consumed by each Lanai Division generating unit, monthly from 2001 through 2006.

d. Please provide the amount of energy produced by each Lanai Division generating unit, monthly from 2001 through 2006.

MECO Response:

a. Partial net system data are provided in MECO-WP-407, page 2. Please refer to pages 2 and 3 of this response for the 2001-2006 gross individual unit heat rates.

b. Please refer to pages 4 and 5 of this response

c. Partial net system data are provided in MECO-WP-407, page 2. Please refer to pages 6 and 7 of this response for the 2001-2006 fuel consumption.

d. Partial net system data are provided in MECO-WP-407, page 2. Please refer to pages 8 and 9 of this response for the 2001-2006 gross energy generated per unit.

a. Lanai Division Gross Historical Heat Rates 2001-2006

	2001 Lanai Gross Heat Rate (btu/kwh)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	Monthly Total
Jan	10,527	13,380	14,677	13,520	16,037	-	9,493	9,493	9,706
Feb	11,583	8,511	17,472	10,454	11,636	-	9,449	9,449	9,524
Mar	20,890	19,981	9,839	14,462	16,180	-	9,456	9,456	9,704
Apr	13,998	14,684	13,743	15,645	13,540	11,114	9,417	9,417	9,624
May	-	12,752	13,289	10,487	13,203	26,023	9,469	9,469	9,677
Jun	13,645	13,877	14,428	12,685	14,206	-	9,514	9,514	9,653
Jul	11,977	12,809	12,789	13,392	12,828	12,338	9,490	9,490	10,635
Aug	11,920	12,734	12,651	11,748	13,557	12,744	9,121	9,121	10,097
Sep	16,721	13,530	13,012	11,763	-	12,909	9,417	9,417	9,982
Oct	12,036	13,496	12,936	11,575	-	12,452	9,348	9,348	9,507
Nov	13,554	12,959	12,958	-	-	12,695	9,344	9,344	9,544
Dec	11,248	13,766	13,476	-	-	12,966	9,240	9,240	9,423
Total	12,050	13,034	12,881	12,107	13,453	12,691	9,404	9,392	9,764

	2002 Lanai Gross Heat Rate (btu/kwh)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	Monthly Total
Jan	12,278	12,601	12,693	-	-	12,655	9,355	9,349	9,797
Feb	13,246	13,557	13,244	-	15,921	13,103	9,578	9,578	9,974
Mar	2,396	11,588	11,684	13,611	-	12,359	9,246	9,246	9,372
Apr	16,017	13,601	13,020	15,759	-	12,554	9,323	9,321	9,464
May	12,707	13,215	13,871	5,391	-	13,267	9,351	9,346	9,489
Jun	14,949	13,493	14,799	16,913	-	13,686	9,258	9,258	9,495
Jul	13,974	13,031	12,528	11,781	20,181	11,632	9,209	9,202	9,627
Aug	8,312	13,174	-	11,899	-	12,818	9,292	9,291	9,644
Sep	13,416	13,976	-	-	24,541	14,190	9,277	9,271	9,421
Oct	-	15,838	-	-	23,088	13,183	9,213	9,205	9,321
Nov	15,864	9,440	12,531	58,862	6,777	12,740	9,348	9,348	9,468
Dec	11,085	12,834	12,983	-	12,829	12,967	9,444	9,444	9,906
Total	12,121	12,986	12,799	11,789	12,549	12,909	9,317	9,317	9,577

	2003 Lanai Gross Heat Rate (btu/kwh)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	Monthly Total
Jan	12,218	13,440	12,982	11,212	-	12,709	9,318	9,318	9,438
Feb	-	14,378	12,638	12,688	-	13,645	9,184	9,184	9,347
Mar	-	13,370	13,254	11,959	38,203	12,999	9,194	9,194	9,419
Apr	-	13,894	-	-	-	13,287	9,210	9,210	9,297
May	-	13,323	12,518	-	-	12,610	9,188	9,188	9,308
Jun	12,333	13,881	12,769	9,897	14,650	13,418	9,266	9,266	9,419
Jul	-	12,674	-	11,649	13,695	12,981	9,246	9,246	9,443
Aug	34,632	13,098	-	9,293	10,755	13,412	9,269	9,269	9,496
Sep	14,471	14,294	12,976	15,393	12,173	13,977	9,722	9,722	9,915
Oct	-	14,351	13,417	13,069	14,498	13,437	9,058	9,058	9,279
Nov	-	13,411	13,112	12,128	15,946	13,629	9,523	9,523	9,934
Dec	13,068	13,203	12,776	12,247	13,335	13,551	9,765	9,765	10,501
Total	13,352	13,428	12,950	12,332	13,848	13,313	9,314	9,324	9,563

a. Lanai Division Gross Historical Heat Rates 2001-2006 (continued)

	2004 Lanai Gross Heat Rate (btu/kwh)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	Monthly Total
Jan	-	9,888	15,050	-	12,859	1,238	9,516	9,516	9,387
Feb	-	13,535	12,841	12,271	12,581	13,049	9,401	9,401	10,189
Mar	-	12,558	12,054	-	14,411	12,725	9,453	9,453	9,574
Apr	-	13,815	13,395	-	13,454	14,612	9,424	9,424	9,553
May	14,269	14,249	15,462	20,396	14,999	12,597	9,427	9,427	9,578
Jun	-	13,157	12,161	-	11,162	14,531	9,395	9,395	9,572
Jul	-	15,314	12,864	-	13,801	12,522	9,692	9,692	9,802
Aug	-	16,389	12,739	-	55,169	13,260	9,490	9,490	9,674
Sep	-	13,672	13,093	-	10,510	13,199	9,880	9,880	10,091
Oct	-	12,538	12,695	-	12,816	13,366	9,406	9,406	9,673
Nov	-	14,925	13,191	-	13,993	13,353	9,643	9,643	9,838
Dec	-	13,186	12,522	26,728	14,188	13,701	9,703	9,703	9,816
Total	14,269	13,361	12,946	14,041	12,843	12,401	9,536	9,538	9,726

	2005 Lanai Gross Heat Rate (btu/kwh)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	Monthly Total
Jan	-	14,095	13,005	-	13,271	12,981	9,628	9,628	9,768
Feb	23,508	13,275	12,548	16,475	13,029	12,866	9,691	9,691	10,342
Mar	43,601	12,862	13,469	-	13,392	13,331	9,740	9,740	10,148
Apr	4,261	14,493	13,008	-	14,094	6,481	9,652	9,651	9,897
May	21,082	9,091	13,617	-	13,514	2,642	9,987	9,987	9,943
Jun	14,020	23,685	13,122	17,295	13,917	14,149	9,668	9,668	10,180
Jul	14,700	25,528	17,371	11,751	13,702	13,452	9,437	9,437	9,748
Aug	-	11,718	11,045	9,253	13,674	13,981	9,409	9,409	9,699
Sep	-	11,706	14,210	-	13,632	13,940	9,940	9,940	10,119
Oct	-	14,022	13,899	11,100	14,641	14,108	9,700	9,700	9,905
Nov	13,340	14,169	13,432	14,441	14,083	13,828	9,730	9,730	9,990
Dec	14,907	12,833	12,885	11,848	13,399	12,994	9,308	9,308	10,001
Total	14,106	13,288	13,138	11,882	13,676	12,291	9,657	9,660	9,973

	2006 Lanai Gross Heat Rate (btu/kwh)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	Monthly Total
Jan	12,850	13,030	13,572	11,590	12,962	12,664	9,353	-	11,218
Feb	12,822	13,547	12,679	12,004	15,195	14,459	9,708	9,708	11,196
Mar	-	-	15,418	12,056	13,737	15,446	9,531	9,531	9,642
Apr	-	14,467	12,646	12,268	16,394	12,325	9,574	9,574	9,672
May	19,135	14,225	13,063	11,532	13,100	12,795	9,012	9,012	10,457
Jun	4,888	15,281	11,098	13,063	15,391	13,577	9,557	9,557	9,852
Jul	-	11,312	10,841	11,883	13,136	11,979	9,698	9,698	9,781
Aug	34,881	14,802	13,758	12,304	12,906	14,140	9,482	9,482	9,699
Sep	10,713	-	13,569	10,470	13,838	13,835	9,579	9,579	9,726
Oct	-	13,802	13,216	12,976	13,903	13,353	9,549	9,549	9,819
Nov	13,373	12,499	12,524	12,291	12,786	12,261	9,366	9,366	9,661
Dec	13,492	19,683	13,217	12,038	13,471	12,900	9,673	9,673	10,054
Total	13,115	13,248	13,005	11,830	13,599	13,156	9,535	9,506	10,055

b. Lanai Division Run Hours 2001-2006

	2001 Lanai Unit Run Hours								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	4	36	42	76	81	-	742	736	1,717
Feb	28	29	13	48	84	-	671	670	1,543
Mar	13	56	69	60	79	-	735	738	1,750
Apr	8	4	29	58	56	51	718	697	1,621
May	-	47	29	93	76	9	724	725	1,703
Jun	22	25	29	30	35	-	716	720	1,577
Jul	465	406	213	13	269	205	742	285	2,598
Aug	282	308	224	84	175	190	464	690	2,417
Sep	3	95	193	268	-	161	597	680	1,997
Oct	7	46	36	58	-	79	736	734	1,696
Nov	6	38	91	-	-	100	715	702	1,652
Dec	31	28	70	-	-	84	722	740	1,675
Total	869	1,118	1,038	788	855	879	8,282	8,117	21,946

	2002 Lanai Unit Run Hours								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	112	168	134	-	-	138	739	590	1,881
Feb	83	111	104	-	11	97	573	661	1,640
Mar	23	57	72	16	4	115	711	737	1,734
Apr	4	20	33	19	-	73	698	718	1,564
May	4	61	34	41	-	126	740	719	1,725
Jun	3	61	7	38	2	125	717	702	1,656
Jul	34	199	56	201	7	44	720	727	1,988
Aug	12	58	-	224	-	242	742	728	2,005
Sep	32	60	-	-	2	63	716	717	1,590
Oct	-	23	-	-	4	66	743	742	1,578
Nov	25	20	25	2	13	85	713	704	1,586
Dec	17	94	159	-	112	208	672	698	1,959
Total	348	931	624	540	155	1,381	8,484	8,443	20,906

	2003 Lanai Unit Run Hours								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	11	41	8	4	-	84	743	730	1,621
Feb	-	30	30	19	-	79	648	670	1,477
Mar	-	29	60	27	4	136	738	724	1,719
Apr	-	28	-	-	-	76	720	720	1,544
May	-	48	18	-	-	95	742	742	1,645
Jun	3	33	3	4	3	148	717	718	1,629
Jul	-	30	-	23	16	208	729	741	1,747
Aug	4	42	-	23	5	248	742	738	1,802
Sep	17	47	41	54	13	84	716	715	1,686
Oct	-	22	45	105	11	95	738	743	1,761
Nov	-	85	127	122	5	187	667	699	1,891
Dec	135	250	239	38	111	237	507	741	2,257
Total	170	686	571	419	168	1,676	8,406	8,681	20,777

b. Lanai Division Run Hours 2001-2006 (continued)

	2004 Lanai Unit Run Hours								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	-	7	30	-	21	101	724	741	1,623
Feb	-	116	184	60	242	263	691	455	2,011
Mar	-	44	57	-	19	51	729	731	1,630
Apr	-	20	31	-	10	74	715	719	1,568
May	6	7	36	6	5	129	742	744	1,674
Jun	-	30	66	-	9	104	718	715	1,643
Jul	-	11	32	-	18	113	733	741	1,647
Aug	-	2	44	-	4	156	743	744	1,692
Sep	-	26	69	-	61	181	704	675	1,716
Oct	-	54	158	-	69	71	734	705	1,791
Nov	-	31	53	-	31	113	694	719	1,641
Dec	-	5	23	8	10	77	742	738	1,603
Total	6	351	782	74	499	1,433	8,669	8,427	20,240

	2005 Lanai Unit Run Hours								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	-	20	41	-	37	68	739	716	1,621
Feb	22	186	182	8	165	253	658	623	2,096
Mar	0	53	195	-	163	81	736	744	1,972
Apr	14	65	58	-	224	17	717	720	1,815
May	8	101	55	-	134	136	723	736	1,894
Jun	52	102	73	1	173	101	675	709	1,888
Jul	2	12	37	45	176	55	739	738	1,803
Aug	-	99	94	21	109	131	729	710	1,894
Sep	-	12	48	-	63	124	713	715	1,674
Oct	-	15	73	20	114	42	741	739	1,744
Nov	28	15	147	15	62	63	730	713	1,773
Dec	14	102	127	162	143	295	719	607	2,169
Total	140	782	1,130	273	1,562	1,365	8,619	8,470	22,341

	2006 Lanai Unit Run Hours								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	186	516	421	589	281	437	744	-	3,173
Feb	102	268	462	346	198	250	665	158	2,450
Mar	-	-	9	91	42	12	744	744	1,642
Apr	-	16	13	84	4	18	719	715	1,569
May	28	11	468	434	343	387	224	744	2,638
Jun	23	2	107	36	61	211	671	719	1,829
Jul	-	11	15	44	25	69	716	713	1,592
Aug	5	11	93	48	17	89	744	744	1,751
Sep	6	-	99	39	27	45	715	718	1,648
Oct	-	7	86	78	98	75	715	744	1,803
Nov	45	11	114	146	62	46	715	686	1,825
Dec	74	4	194	49	86	91	688	694	1,879
Total	469	855	2,080	1,984	1,242	1,729	8,061	7,379	23,798

c. Lanai Division Historical Fuel Consumption 2001-2006

	2001 Lanai Fuel Consumption (gallons)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	169	1,544	1,944	3,411	3,669	-	78,015	78,158	166,910
Feb	1,046	1,375	561	2,086	3,783	-	71,936	73,160	153,947
Mar	545	2,857	2,942	2,554	3,734	-	78,453	79,876	170,961
Apr	309	1,024	1,710	3,337	2,853	2,095	77,192	75,803	164,323
May	-	1,254	4,667	4,161	3,948	802	77,759	79,184	171,775
Jun	931	1,288	2,519	1,251	1,625	-	78,733	80,108	166,455
Jul	25,718	23,340	11,755	645	14,880	11,337	77,276	31,024	195,975
Aug	15,453	16,866	12,161	4,284	8,597	9,865	49,340	73,613	190,179
Sep	302	5,030	11,098	14,488	-	8,771	63,528	73,450	176,667
Oct	314	2,485	1,947	2,575	-	3,775	78,456	79,131	168,683
Nov	408	1,983	4,967	-	-	5,423	77,832	76,425	167,038
Dec	1,693	1,554	3,624	-	-	4,349	75,736	77,710	164,666
Total	46,888	60,600	59,895	38,792	43,089	46,417	884,256	877,642	2,057,579

	2002 Lanai Fuel Consumption (gallons)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	5,618	9,445	7,005	-	-	7,537	76,347	61,067	167,019
Feb	3,881	5,550	5,661	-	639	5,090	59,077	68,649	148,547
Mar	226	2,808	3,611	718	-	5,979	75,011	74,231	162,584
Apr	225	1,276	1,829	1,012	-	3,860	76,165	77,389	161,756
May	204	3,388	1,531	1,224	-	6,390	80,786	77,451	170,974
Jun	150	2,701	297	2,948	-	6,003	79,535	76,135	167,769
Jul	1,963	10,696	3,193	10,619	405	2,843	74,656	73,485	177,860
Aug	417	3,047	-	11,598	-	12,669	81,958	78,564	188,253
Sep	1,427	2,959	-	-	197	3,041	80,763	79,480	167,867
Oct	-	1,470	-	-	556	3,581	82,979	81,218	169,804
Nov	1,560	862	1,358	135	408	4,310	80,568	77,641	166,842
Dec	1,624	4,810	8,520	-	6,282	10,567	72,097	75,333	179,233
Total	17,295	49,012	33,005	28,254	8,487	71,870	919,942	900,643	2,028,508

	2003 Lanai Fuel Consumption (gallons)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	662	2,124	495	180	-	4,445	82,944	79,129	169,979
Feb	-	1,385	1,471	873	-	4,313	69,336	69,419	146,797
Mar	-	1,630	3,245	1,344	460	6,652	78,873	79,427	171,631
Apr	-	1,185	-	-	-	3,657	80,791	78,353	163,986
May	-	2,266	1,030	-	-	4,745	85,051	82,838	175,930
Jun	198	1,560	205	227	147	6,886	83,625	81,589	174,437
Jul	-	1,348	-	1,229	852	10,188	85,197	84,863	183,677
Aug	278	2,162	-	1,428	259	11,612	86,777	84,015	186,531
Sep	697	1,965	1,953	2,436	513	3,937	86,629	84,405	182,535
Oct	-	1,116	2,154	4,616	611	4,613	83,685	82,268	179,063
Nov	-	4,185	6,710	6,008	320	9,192	73,272	75,222	174,909
Dec	6,766	12,307	11,922	1,882	5,620	12,257	56,319	78,864	185,937
Total	8,601	33,233	29,185	20,223	8,782	82,497	952,499	960,392	2,095,412

c. Lanai Division Historical Fuel Consumption 2001-2006 (continued)

	2004 Lanai Fuel Consumption (gallons)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	-	253	2,084	-	1,058	488	79,460	78,171	161,514
Feb	-	6,261	10,540	2,927	14,366	14,169	72,362	47,685	168,310
Mar	-	2,035	2,927	-	1,099	2,344	80,164	79,651	168,220
Apr	-	908	1,586	-	540	3,812	79,943	81,531	168,320
May	315	336	2,141	421	301	5,652	84,733	84,138	178,037
Jun	-	1,439	3,441	-	448	5,572	81,539	82,613	175,052
Jul	-	630	1,678	-	914	5,008	84,957	88,517	181,704
Aug	-	74	2,352	-	775	7,888	84,674	88,989	184,752
Sep	-	1,221	3,731	-	2,995	9,176	82,618	78,812	178,553
Oct	-	2,623	8,968	-	3,858	3,736	85,394	80,213	184,792
Nov	-	1,565	2,912	-	1,713	5,685	80,784	81,335	173,994
Dec	-	258	1,156	613	541	3,869	85,727	82,836	175,000
Total	315	17,603	43,516	3,961	28,608	67,399	982,355	954,491	2,098,248

	2005 Lanai Fuel Consumption (gallons)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	-	990	2,375	-	2,104	3,610	82,980	78,284	170,343
Feb	802	8,152	9,594	529	8,027	12,716	64,122	59,221	163,163
Mar	175	2,678	10,136	-	8,654	4,185	75,763	74,737	176,328
Apr	248	3,083	2,976	-	10,239	850	78,765	76,962	173,123
May	550	5,040	2,842	-	6,726	1,125	84,990	84,297	185,570
Jun	2,504	5,288	3,950	119	8,574	4,959	77,849	79,449	182,692
Jul	59	1,332	2,510	2,156	8,744	2,632	85,677	83,235	186,345
Aug	-	4,656	4,433	764	5,900	6,313	82,136	78,341	182,543
Sep	-	646	2,481	-	3,146	5,595	88,147	86,472	186,487
Oct	-	809	3,654	891	5,318	1,810	87,747	85,265	185,494
Nov	1,285	718	7,386	828	2,911	3,330	83,970	82,477	182,905
Dec	718	6,361	8,171	9,511	8,094	16,205	75,963	68,369	193,392
Total	6,341	39,753	60,508	14,798	78,437	63,330	968,109	937,109	2,168,385

	2006 Lanai Fuel Consumption (gallons)								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	10,444	29,046	23,641	32,615	15,555	24,335	77,141	-	212,777
Feb	5,558	14,891	26,488	20,098	11,069	14,249	73,260	17,183	182,796
Mar	-	-	526	4,756	2,040	631	86,761	84,321	179,035
Apr	-	900	736	4,136	329	795	82,630	79,374	168,900
May	1,728	521	27,735	24,810	17,982	21,294	24,769	76,828	195,667
Jun	412	92	4,744	2,217	3,583	10,665	76,959	82,282	180,954
Jul	-	437	805	2,153	1,239	3,254	86,004	80,604	174,496
Aug	630	453	4,804	2,314	777	4,672	92,226	90,542	196,418
Sep	258	-	4,956	1,705	1,333	2,231	85,320	83,964	179,767
Oct	-	367	4,668	4,345	5,022	3,876	85,255	86,749	190,282
Nov	2,469	533	5,982	7,442	3,233	2,443	83,200	77,702	183,004
Dec	3,926	237	10,663	2,402	4,866	5,224	82,666	81,094	191,078
Total	25,425	47,477	115,748	108,993	67,028	93,669	936,191	840,643	2,235,174

d. Lanai Division Gross Energy Production by Unit 2001-2006

	2001 Lanai Gross KWH								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	2,240	16,100	18,480	35,200	31,920	-	1,146,600	1,148,700	2,399,240
Feb	12,600	22,540	4,480	27,840	45,360	-	1,062,180	1,080,240	2,255,240
Mar	3,640	19,950	41,720	24,640	32,200	-	1,157,520	1,178,520	2,458,190
Apr	3,080	9,730	17,360	29,760	29,400	26,300	1,143,660	1,123,080	2,382,370
May	-	13,720	49,000	55,360	41,720	4,300	1,145,760	1,166,760	2,476,620
Jun	9,520	12,950	24,360	13,760	15,960	-	1,154,580	1,174,740	2,405,870
Jul	299,600	254,240	128,240	6,720	161,840	128,200	1,136,100	456,120	2,571,060
Aug	180,880	184,800	134,120	50,880	88,480	108,000	754,740	1,126,020	2,627,920
Sep	2,520	51,870	119,000	171,840	-	94,800	941,220	1,088,220	2,469,470
Oct	3,640	25,690	21,000	31,040	-	42,300	1,170,960	1,181,040	2,475,670
Nov	4,200	21,350	53,480	-	-	59,600	1,162,140	1,141,140	2,441,910
Dec	21,000	15,750	37,520	-	-	46,800	1,143,660	1,173,480	2,438,210
Total	542,920	648,690	648,760	447,040	446,880	510,300	13,119,120	13,038,060	29,401,770

	2002 Lanai Gross KWH								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	63,840	104,580	77,000	-	-	83,100	1,138,620	911,400	2,378,540
Feb	40,880	57,120	59,640	-	5,600	54,200	860,580	1,000,020	2,078,040
Mar	13,160	33,810	43,120	7,360	3,360	67,500	1,131,900	1,120,140	2,420,350
Apr	1,960	13,090	19,600	8,960	-	42,900	1,139,880	1,158,360	2,384,750
May	2,240	35,770	15,400	31,680	-	67,200	1,205,400	1,156,260	2,513,950
Jun	1,400	27,930	2,800	24,320	1,400	61,200	1,198,680	1,147,440	2,465,170
Jul	19,600	114,520	35,560	125,760	2,800	34,100	1,131,060	1,114,260	2,577,660
Aug	7,000	32,270	-	136,000	-	137,900	1,230,600	1,179,780	2,723,550
Sep	14,840	29,540	-	-	1,120	29,900	1,214,640	1,196,160	2,486,200
Oct	-	12,950	-	-	3,360	37,900	1,256,640	1,231,020	2,541,870
Nov	13,720	12,740	15,120	320	8,400	47,200	1,202,460	1,158,780	2,458,740
Dec	20,440	52,290	91,560	-	68,320	113,700	1,065,120	1,113,000	2,524,430
Total	199,080	526,610	359,800	334,400	94,360	776,800	13,775,580	13,486,620	29,553,250

	2003 Lanai Gross KWH								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	7,560	22,050	5,320	2,240	-	48,800	1,241,940	1,184,820	2,512,730
Feb	-	13,440	16,240	9,600	-	44,100	1,053,360	1,054,620	2,191,360
Mar	-	17,010	34,160	15,680	1,680	71,400	1,197,000	1,205,400	2,542,330
Apr	-	11,900	-	-	-	38,400	1,223,880	1,186,920	2,461,100
May	-	23,730	11,480	-	-	52,500	1,291,500	1,257,900	2,637,110
Jun	2,240	15,680	2,240	3,200	1,400	71,600	1,259,160	1,228,500	2,584,020
Jul	-	14,840	-	14,720	8,680	109,500	1,285,620	1,280,580	2,713,940
Aug	1,120	23,030	-	21,440	3,360	120,800	1,306,200	1,264,620	2,740,570
Sep	6,720	19,180	21,000	22,080	5,880	39,300	1,243,200	1,211,280	2,568,640
Oct	-	10,850	22,400	49,280	5,880	47,900	1,288,980	1,267,140	2,692,430
Nov	-	43,540	71,400	69,120	2,800	94,100	1,073,520	1,102,080	2,456,560
Dec	72,240	130,060	130,200	21,440	58,800	126,200	804,720	1,126,860	2,470,520
Total	89,880	345,310	314,440	228,800	88,480	864,600	14,269,080	14,370,720	30,571,310

d. Lanai Division Gross Energy Production by Unit 2001-2006 (continued)

	2004 Lanai Gross KWH								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	-	3,570	19,320	-	11,480	55,000	1,165,080	1,146,180	2,400,630
Feb	-	64,540	114,520	33,280	159,320	151,500	1,073,940	707,700	2,304,800
Mar	-	22,610	33,880	-	10,640	25,700	1,183,140	1,175,580	2,451,550
Apr	-	9,170	16,520	-	5,600	36,400	1,183,560	1,207,080	2,458,330
May	3,080	3,290	19,320	2,880	2,800	62,600	1,254,120	1,245,300	2,593,390
Jun	-	15,260	39,480	-	5,600	53,500	1,210,860	1,226,820	2,551,520
Jul	-	5,740	18,200	-	9,240	55,800	1,223,040	1,274,280	2,586,300
Aug	-	630	25,760	-	1,960	83,000	1,244,880	1,308,300	2,664,530
Sep	-	12,460	39,760	-	39,760	97,000	1,166,760	1,113,000	2,468,740
Oct	-	29,190	98,560	-	42,000	39,000	1,266,720	1,189,860	2,665,330
Nov	-	14,630	30,800	-	17,080	59,400	1,168,860	1,176,840	2,467,610
Dec	-	2,730	12,880	3,200	5,320	39,400	1,232,700	1,191,120	2,487,350
Total	3,080	183,820	469,000	39,360	310,800	758,300	14,373,660	13,962,060	30,100,080

	2005 Lanai Gross KWH								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	-	9,800	25,480	-	22,120	38,800	1,202,460	1,134,420	2,433,080
Feb	4,760	85,680	106,680	4,480	85,960	137,900	923,160	852,600	2,201,220
Mar	560	29,050	105,000	-	90,160	43,800	1,085,280	1,070,580	2,424,430
Apr	8,120	29,680	31,920	-	101,360	18,300	1,138,620	1,112,580	2,440,580
May	3,640	77,350	29,120	-	69,440	59,400	1,187,340	1,177,680	2,603,970
Jun	24,920	31,150	42,000	960	85,960	48,900	1,123,500	1,146,600	2,503,990
Jul	560	7,280	20,160	25,600	89,040	27,300	1,266,720	1,230,600	2,667,260
Aug	-	55,440	56,000	11,520	60,200	63,000	1,218,000	1,161,720	2,625,880
Sep	-	7,700	24,360	-	32,200	56,000	1,237,320	1,213,800	2,571,380
Oct	-	8,050	36,680	11,200	50,680	17,900	1,262,100	1,226,400	2,613,010
Nov	13,440	7,070	76,720	8,000	28,840	33,600	1,204,140	1,182,720	2,554,530
Dec	6,720	69,160	88,480	112,000	84,280	174,000	1,138,620	1,024,800	2,698,060
Total	62,720	417,410	642,600	173,760	800,240	718,900	13,987,260	13,534,500	30,337,390

	2006 Lanai Gross KWH								
	LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	TOTAL
Jan	113,400	311,010	243,040	392,640	167,440	268,100	1,150,800	-	2,646,430
Feb	60,480	153,370	291,480	233,600	101,640	137,500	1,052,940	246,960	2,277,970
Mar	-	-	4,760	55,040	20,720	5,700	1,270,080	1,234,380	2,590,680
Apr	-	8,680	8,120	47,040	2,800	9,000	1,204,140	1,156,680	2,436,460
May	12,600	5,110	296,240	300,160	191,520	232,200	383,460	1,189,440	2,610,730
Jun	11,760	840	59,640	23,680	32,480	109,600	1,123,500	1,201,200	2,562,700
Jul	-	5,390	10,360	25,280	13,160	37,900	1,237,320	1,159,620	2,489,030
Aug	2,520	4,270	48,720	26,240	8,400	46,100	1,357,020	1,332,240	2,825,510
Sep	3,360	-	50,960	22,720	13,440	22,500	1,242,780	1,223,040	2,578,800
Oct	-	3,710	49,280	46,720	50,400	40,500	1,245,720	1,267,560	2,703,890
Nov	25,760	5,950	66,640	84,480	35,280	27,800	1,239,420	1,157,520	2,642,850
Dec	40,600	1,680	112,560	27,840	50,400	56,500	1,192,380	1,169,700	2,651,660
Total	270,480	500,010	1,241,800	1,285,440	687,680	993,400	13,699,560	12,338,340	31,016,710

CA-IR-62

Ref: MECO-403, MECO-WP-403, pages 1–3.

Please provide a copy of any energy Loss Studies and other documentation that support the energy losses shown in the referenced exhibit and workpaper.

MECO Response:

a. Included in the submittal are selected parts of the MECO System Loss Study, dated August 1994. The complete MECO System Loss Study is voluminous and is available for inspection at HECO's Regulatory Affairs Division office, Suite 1301, Central Pacific Plaza, 220 South King Street, Honolulu, Hawaii. Please contact Dean Matsuura at 543-4622 to make arrangements to inspect the requested information.

Since August 1994, the MECO System Losses were periodically updated with more current information using the same methods established in the August 1994 MECO System Loss Study. Using historical 2005 data and the projected load forecast for 2007, the MECO System Losses, as shown in MECO-403 and MECO-WP-403 pages 1-3, were calculated for the 2007 Test Year. The following explanation is provided in support of the MECO System Losses for the Test Year 2007:

The latest Maui System Losses Study was done in August of 1994.

The Study identified the energy and demand losses in different voltage levels.

The result was summarized in Tables form attached in Appendix A of the Study.

An example is shown as below:

Table 1.1
Allocation of MECO System Losses
For 1996

	4,832.89	Energy (MWH)	Max Demand (MW)	Min Demand (MW)
A.	IPP Generation	97,679	12.00	8.00
	MECO Gross Generation	973,914	170.10	63.00
	Total Generation	1,071,593	182.10	71.00
	MECO Auxiliary Loss	39,971	3.91	2.6
B.	Delivered to MECO Generator Step-Up	1,031,622	178.19	68.40
	MECO Generator Step-Up Loss	3,625	0.75	0.26
C.	Delivered to 69/23 kV Transmission	1,027,997	177.44	68.14
	69 kV Transmission Loss	13,435	2.78	0.29
	23 kV Transmission Loss	5,509	1.14	0.52
D.	Delivered to 69/23 kV Distribution Substations	1,009,053	173.52	67.33
	Transformation Loss	6,814	1.41	0.47
E.	Delivered to Distribution Lines	1,002,239	172.11	66.86
	Distribution Line Loss	32,429	6.71	1.73
F.	Delivered to Distribution/Secondary Transformation	969,810	165.40	65.13
	Transformation Loss	7,056	1.46	0.94
G.	Delivered to Secondary	962,754	163.94	64.19
	Secondary Loss	6,379	1.32	0.22
H.	Delivered to Customer	956,375	162.62	63.97

The Losses Tables are occasionally updated based on the previous year recorded data from Production Statistic report. An example of part of the 2005 Production Statistic report is shown below:

Maui Purchase Power and Maui System

	HC&S Purchases	Wind	Pioneer Mill Co. Receipts	Pioneer Mill Co. Deliveries	Pioneer Mill Co. Standby	Net to Maui System	Unaccounted and Losses	Loss %	Company Use/ No Charge	Total KWH Sales - Maui
JAN	6,379,500	-	-	-	-	102,820,721	4,892,024	4.8	124,888	97,803,809
FEB	6,613,200	-	-	-	-	91,114,053	5,279,596	5.8	138,634	85,695,823
MAR	8,262,000	-	-	-	-	101,138,623	6,052,622	6.0	131,569	94,954,432
APR	8,008,200	-	-	-	-	99,137,276	5,079,909	5.1	134,927	93,922,440
MAY	8,607,600	-	-	-	-	108,076,023	6,945,653	6.4	154,108	100,976,262
JUN	7,709,400	-	-	-	-	107,003,061	5,167,189	4.8	141,751	101,694,121
JUL	8,222,400	-	-	-	-	112,457,321	7,243,630	6.4	148,677	105,065,014
AUG	8,278,200	-	-	-	-	113,799,960	6,687,253	5.9	157,752	106,954,955
SEP	7,714,800	-	-	-	-	108,500,528	6,685,757	6.2	150,828	101,663,943
OCT	9,280,800	-	-	-	-	108,728,118	4,616,127	4.2	152,093	103,959,898
NOV	8,645,400	-	-	-	-	103,662,150	6,571,424	6.3	138,202	96,952,524
DEC	9,361,800	-	-	-	-	105,803,245	7,058,219	6.7	135,606	98,609,420
YTD	97,083,300	-	-	-	-	1,262,241,079	72,279,403	5.7	1,709,035	1,188,252,641

The following losses Tables are updated based on the Production Statistic Report of 2005

Table 1.1
Allocation of MECO System Losses
For tuning 2005 model

		Energy (MWH)	Max Demand (MW)	Min Demand (MW)
A.	Total Generation	1,304,969	206.50	82.80
	IPP Generation	97,083	12.00	8.00
	MECO Gross Generation	1,207,886	194.50	74.80
	MECO Auxiliary Loss	39,083	3.89	2.85
B.	Delivered to MECO Generator Step-Up	1,168,803	190.61	71.95
	MECO Generator Step-Up Loss	3,646	0.78	0.36
	IPP Generation	97,083	12.00	8.00
C.	Delivered to 69/23 kV Transmission	1,262,241	201.84	79.60
	69 kV Transmission Loss	14,240	3.03	0.41
	23 kV Transmission Loss	8,187	1.74	0.38
D.	Delivered to 69/23 kV Distribution Substations	1,239,814	197.06	78.81
	Transformation Loss	6,414	1.36	0.64
E.	Delivered to Distribution Lines	1,233,400	195.70	78.16
	Distribution Line Loss	30,595	6.51	2.36
F.	Delivered to Distribution/Secondary Transformation	1,202,805	189.19	75.80
	Transformation Loss	6,737	1.43	1.27
G.	Delivered to Secondary	1,196,068	187.76	74.52
	Secondary Loss	6,106	1.30	0.30

H.	Delivered to meter	1,189,962	186.46	74.23
I.	No Charge	1,709	0.30	0.10
J.	Total Sale	1,188,253	186.16	74.13

Based on this 2005 tuned model and the projected load forecast of 2007, an estimated 2007 losses analysis is shown below:

Table 1.1

Allocation of MECO System Losses

For the Test Year of 2007

		Energy		Max Demand		Min Demand	
		(MWH)	Percent	(MW)	Percent	(MW)	Percent
A.	Total Generation	1,316,401		213.80		86.50	
	IPP Generation	215,427		26.25		22.25	
	MECO Gross Generation	1,100,974		187.55		64.25	
	MECO Auxiliary Loss	20,451		3.91		1.71	
B.	Delivered to MECO Generator Step-Up	1,080,523	83.71%	183.64	87.95%	62.54	74.01%
	IPP Generation	215,427	16.69%	26.25	12.57%	22.25	26.33%
	MECO Generator Step-Up Loss	5,091	0.39%	1.08	0.52%	0.29	0.34%
C.	Delivered to 69/23 kV Transmission	1,290,859	100.00%	208.80	100.00%	84.50	100.00%
	69 kV Transmission Loss	14,954	1.16%	3.18	1.52%	0.43	0.51%
	23 kV Transmission Loss	8,600	0.67%	1.83	0.88%	0.38	0.45%

D.	Delivered to 69/23 kV Distribution Substations	1,267,304	98.18%	203.79	97.60%	83.68	99.04%
	Transformation Loss	6,859	0.53%	1.46	0.70%	0.73	0.86%
E.	Delivered to Distribution Lines	1,260,445	97.64%	202.33	96.90%	82.96	98.18%
	Distribution Line Loss	32,704	2.53%	6.96	3.33%	2.66	3.15%
F.	Delivered to Distribution/Secondary Transformation	1,227,741	95.11%	195.37	93.57%	80.29	95.03%
	Transformation Loss	7,184	0.56%	1.53	0.73%	1.43	1.69%
G.	Delivered to Secondary	1,220,557	94.55%	193.84	92.84%	78.87	93.34%
	Secondary Loss	6,508	0.50%	1.38	0.66%	0.33	0.39%
H.	**Delivered to Meter**	1,214,049	94.05%	192.46	92.17%	78.53	92.94%
	Company Use	1,709	**0.13%**	0.30	0.14%	0.10	0.12%
	Sales	1,212,340	93.92%	192.16	92.03%	78.43	92.83%
	Total Losses	76,810	**5.95%**	16.34	7.83%	5.96	7.06%
	System Net Total	1,290,859		208.80		84.50	

CA-IR-63

Ref: MECO-WP-404, page 7.

Please explain and provide all calculations for how the Operating Cost ($/MWh) is calculated for each MECO generating unit on the referenced workpaper.

MECO Response:

The referenced Operating Cost ($/MWh) shown on MECO-WP-404, page 7 is a figure calculated by P-MONTH, for each unit. It would be equivalent to the Total Cost ($/MWh, found on the adjacent column) less the accumulated start-up fuel costs for the unit in the year, divided by the energy produced for the year. There are no P-MONTH reports that provide the accumulated start-up fuel costs for each unit (in order to help "trace" the P-MONTH calculation). It should be noted that MECO does not depend on this reported value of Operating Cost ($/MWh) in the test year exhibits or workpapers.

CA-IR-64

Ref: MECO-WP-404, pages 7 and 17.

MECO-WP-404, Page 17 lists the fixed O&M cost for each MECO generating unit. MECO-WP-404, Page 7 provides the total fixed O&M cost for each MECO generating unit.

a. Is fixed O&M used in the production simulation to commit and dispatch generating units?

b. If the response to part (a) above is yes, please explain how fixed O&M is used in the production simulation and provide answers to parts (c) and (d) of this information request.

c. Please provide supporting documentation for the fixed O&M costs shown on MECO-WP-404, page 17.

d. Please explain and provide all calculations for how the Fixed O&M (M$) is calculated for each MECO generating unit on MECO-WP-404, page 7.

MECO Response:

a. No, fixed O&M is not used in the production simulation to commit and dispatch generating units. It is not used at all in determining costs for this rate case.

b. Not applicable.

c. Not applicable.

d. Not applicable.

CA-IR-65

Ref: MECO-WP-404, page 16.

The referenced workpaper contains the thermal basic summary for MECO's generating units in the Maui Division. This workpaper indicates that Kahului 1 and 2 operate in different modes (i.e., baseload or cycling) during different months of the year.

a. Please explain how Kahului 1 and 2 were operated historically from 2001 through 2006, whether they were baseload or cycling units, during each month of the year.

b. Please explain how Kahului 1 and 2 are expected to be operated during the test year if different from historical operation.

MECO Response:

a. In general, the Kahului 1 and 2 generating units are cycling units; however, both of these units are operated as baseloaded generating units whenever Kahului units 3 or 4 are on scheduled maintenance.

b. For the test year, the planned outage for Kahului unit 3 occurs from November 5 through December 2. The planned outage for Kahului 4 occurs from April 2 through April 29 (see MECO-WP-404, page 84). During these planned outages of Kahului units 3 and 4, Kahului units 1 and 2, which normally serve as cycling units, will serve as baseload units. The change in operating type from cycling to baseload then back to cycling is shown on MECO-WP-404, page 16, in the "PRD" column of the thermal basic summary for Kahului units 1 and 2. Input pattern file 19, as shown as MECO-WP-404, pages 42 to 53, adjusts the unit availability in the months of April, November, and December to prevent Kahului 1 and 2 from operating as baseload units during the days of the month that Kahului 3 and 4 are in operation. The input parameters in the production simulation are set in this fashion to accommodate the operation of the Kahului units 1, 2, 3, and 4 as explained in the response to part a.

CA-IR-66

Ref: MECO-WP-404, pages 19, 20 and 84.

MECO-WP-404, page 19 contains the maintenance outage rate for each MECO generating unit. MECO-WP-404, page 20, contains the thermal maintenance summary for MECO generating units, with outages defined for specific days. Please explain how maintenance outages are modeled in the production simulation, whether by the maintenance outage rate, by specific start dates and durations, or by another method.

MECO Response:

As stated in MECO T-4, page 28, lines 5-12, maintenance outage rates are the rates of outages other than forced outages or planned overhauls. Generally, an outage is labeled as a maintenance outage when a unit must be repaired for issues other than those scheduled ahead of time through the overhaul schedule, but does not need to come off-line right away (definition of a forced outage). Maintenance outage rates in P-Month are calculated using the maintenance outage hours or days (not including planned overhauls) divided by the possible service hours or days (8,760 hours or 365 days). Further explanation is provided in the response to CA-IR-68.

CA-IR-67

Ref: MECO-WP-404, page 20.

The referenced workpaper contains the Thermal Maintenance Summary input to the production simulation.

a. Does the ID number listed on MECO-WP-404, page 20 correspond to the ID number found on MECO-WP-404, page 17, Thermal Cost and Variable Summary?

b. If the response to part (a) above is no, please provide a copy of this workpaper with the names of each generating unit provided.

MECO Response:

a. Yes, the ID numbers of the generating units should be consistent across all P-MONTH input files.

b. For the sake of clarification, please refer to page 2 of this response for an updated copy of MECO-WP-404, page 20, with the corresponding ID numbers. The unit names have been added. In the original workpaper, the unit names were not included.

Reference: MECO-WP-404, page 20.

Thermal Maintenance Summary

SetID	ID	NAME	YR	PRD	StartDay	no of Days
MECO_TY2007	1	Kahului1	2007	1	22	7
MECO_TY2007	1	Kahului1	2007	9	3	28
MECO_TY2007	2	Kahului2	2007	1	1	28
MECO_TY2007	2	Kahului2	2007	12	10	7
MECO_TY2007	3	Kahului3	2007	11	5	28
MECO_TY2007	4	Kahului4	2007	4	2	28
MECO_TY2007	7	MaalaeX1	2007	8	27	7
MECO_TY2007	8	MaalaeX2	2007	7	9	7
MECO_TY2007	9	Maalaea1	2007	7	23	7
MECO_TY2007	10	Maalaea2	2007	10	15	7
MECO_TY2007	11	Maalaea3	2007	4	23	7
MECO_TY2007	11	Maalaea3	2007	8	6	1
MECO_TY2007	12	Maalaea4	2007	2	19	7
MECO_TY2007	12	Maalaea4	2007	7	9	4
MECO_TY2007	13	Maalaea5	2007	1	29	7
MECO_TY2007	14	Maalaea6	2007	4	9	7
MECO_TY2007	15	Maalaea7	2007	10	8	7
MECO_TY2007	16	Maalaea8	2007	7	23	1
MECO_TY2007	16	Maalaea8	2007	9	24	7
MECO_TY2007	17	Maalaea9	2007	3	5	7
MECO_TY2007	18	Maalae10	2007	7	16	7
MECO_TY2007	18	Maalae10	2007	10	1	6
MECO_TY2007	19	Maalae11	2007	1	8	7
MECO_TY2007	20	Maalae12	2007	1	1	7
MECO_TY2007	20	Maalae12	2007	2	5	56
MECO_TY2007	21	Maalae13	2007	12	17	7
MECO_TY2007	24	M14&15	2007	1	15	7
MECO_TY2007	24	M14&15	2007	2	2	1
MECO_TY2007	24	M14&15	2007	6	4	14
MECO_TY2007	25	M15&16	2007	3	2	3
MECO_TY2007	25	M15&16	2007	6	18	14
MECO_TY2007	25	M15&16	2007	7	2	7
MECO_TY2007	28	M17&18	2007	3	19	7
MECO_TY2007	29	M19&18	2007	4	30	7
MECO_TY2007	29	M19&18	2007	5	7	28
MECO_TY2007	29	M19&18	2007	7	13	3

CA-IR-68

Ref: MECO-WP-404, pages 20 and 84.

MECO-WP-404, page 20 appears to contain more outages than are listed on the 2007 overhaul schedule, given in MECO-WP-404, page 84. Please provide a comprehensive list of all maintenance and overhaul outages for 2007 for all MECO generating units.

MECO Response:

The additional outages shown in the Thermal Maintenance Summary (MECO-WP-404, page 20), other than what is indicated in the 2007 Test Year Normalized Overhaul Schedule on MECO-WP-404, page 84, are maintenance outages associated with the assumed maintenance outage rates. An explanation of maintenance outage rates ("MOR") was provided in MECO T-4, pages 28 to 29. As described in MECO T-4, page 28, lines 17 to 24, the maintenance outage rates are allocated into maintenance outages by a load levelization algorithm, AUTOMNT, that is a part of the P-MONTH program. The additional outages shown in the Thermal Maintenance files are the outages that were scheduled by AUTOMNT. Please see page 2 of this response for clarification of which outages are based on the MOR assumptions as scheduled by the AUTOMNT algorithm.

Reference: MECO-WP-404, pages 20 and 84.

Thermal Maintenance Summary

SetID	ID	NAME	YR	PRD (month)	StartDay	no of Days	Overhaul or MOR
MECO_TY2007	1	Kahului1	2007	1	22	7	MOR
MECO_TY2007	1	Kahului1	2007	9	3	28	overhaul
MECO_TY2007	2	Kahului2	2007	1	1	28	overhaul
MECO_TY2007	2	Kahului2	2007	12	10	7	MOR
MECO_TY2007	3	Kahului3	2007	11	5	28	overhaul
MECO_TY2007	4	Kahului4	2007	4	2	28	overhaul
MECO_TY2007	7	MaalaeX1	2007	8	27	7	MOR
MECO_TY2007	8	MaalaeX2	2007	7	9	7	MOR
MECO_TY2007	9	Maalaea1	2007	7	23	7	MOR
MECO_TY2007	10	Maalaea2	2007	10	15	7	MOR
MECO_TY2007	11	Maalaea3	2007	4	23	7	MOR
MECO_TY2007	11	Maalaea3	2007	8	6	1	overhaul
MECO_TY2007	12	Maalaea4	2007	2	19	7	MOR
MECO_TY2007	12	Maalaea4	2007	7	9	4	overhaul
MECO_TY2007	13	Maalaea5	2007	1	29	7	MOR
MECO_TY2007	14	Maalaea6	2007	4	9	7	MOR
MECO_TY2007	15	Maalaea7	2007	10	8	7	MOR
MECO_TY2007	16	Maalaea8	2007	7	23	1	overhaul
MECO_TY2007	16	Maalaea8	2007	9	24	7	MOR
MECO_TY2007	17	Maalaea9	2007	3	5	7	MOR
MECO_TY2007	18	Maalae10	2007	7	16	7	MOR
MECO_TY2007	18	Maalae10	2007	10	1	6	overhaul
MECO_TY2007	19	Maalae11	2007	1	8	7	MOR
MECO_TY2007	20	Maalae12	2007	1	1	7	MOR
MECO_TY2007	20	Maalae12	2007	2	5	56	overhaul
MECO_TY2007	21	Maalae13	2007	12	17	7	MOR
MECO_TY2007	24	M14&15	2007	1	15	7	MOR
MECO_TY2007	24	M14&15	2007	2	2	1	overhaul
MECO_TY2007	24	M14&15	2007	6	4	14	overhaul
MECO_TY2007	25	M15&16	2007	3	2	3	overhaul
MECO_TY2007	25	M15&16	2007	6	18	14	overhaul
MECO_TY2007	25	M15&16	2007	7	2	7	MOR
MECO_TY2007	28	M17&18	2007	3	19	7	MOR
MECO_TY2007	29	M19&18	2007	4	30	7	MOR
MECO_TY2007	29	M19&18	2007	5	7	28	overhaul
MECO_TY2007	29	M19&18	2007	7	13	3	overhaul

CA-IR-69

Ref: MECO-WP-404, page 21, T-4, page 17, lines 1–3.

The referenced testimony indicates that MECO purchases 12 MW from Hawaiian Commercial & Sugar (HC&S) during the on-peak period and 8 MW during the off-peak period. MECO-WP-404, page 21 provides input information to the production simulation relating to fixed energy transactions, including HC&S. It appears that the maximum capacity and associated energy of the HC&S transaction changes monthly.

a. Please explain and provide all calculations and supporting documentation that were used to determine the maximum capacity and associated energy amounts for HCS_ON for each month on MECO-WP-404, page 21.

b. Please explain and provide all calculations and supporting documentation that were used to determine the minimum capacity amount for the fixed energy transactions named HCS_ON and HCS_OFF on MECO-WP-404, page 21.

MECO Response:

a. Please refer to page 3 of this response and the electronic version of MECO-WP-404, page 99, for the actual calculations of the maximum capacity and energy that is displayed on MECO-WP-404, page 21. Generally, the HC&S regular on-peak energy is calculated by multiplying the number of days in the month by the 14-hour per day on peak period and by the 12 MW contracted energy from HC&S to obtain the total MWh provided by HC&S during a test year month. The off-peak regular energy is also calculated with this method with the exception being the number of days per month multiplied by the 10-hour per day off-peak period and the 8 MW contracted energy. The exceptions to this occur in January and February of the test year due to the planned outage adjustments as discussed in MECO T-4, page 18, lines 6-16. The maximum monthly on-peak capacity is calculated by summing the regular, optional additional and the supplemental forecasted energy for the month, then dividing by the number of days in the month, then divide by the 14–hour per day on-peak period. The off-peak capacity is similarly calculated by summing the off-peak

energies and dividing by the 10–hour per day off peak period. Please refer to columns W and Y of the electronic file for the calculations

b. The minimum capacity amount shown in the "Min Cap" column and HCS_ON and HCS_OFF rows of MECO-WP-404, page 21, is calculated as the off-peak capacities as shown on page 3 of this CA-IR response. Refer to the highlighted "Capacity for PMonth off-peak" column. The "Min Cap" values of MECO-WP-404, page 21, HCS_ON and HCS_OFF were reduced from the 8 MW calculated to 6 MW in the production simulation input to avoid the possibility of exceeding the forecasted energy.

Maui Electric Company, Limited

HC&S PURCHASED ENERGY (MWh)
TEST YEAR 2007

Direct Testimony

(Maui Division)

	No. of	Regular [1]		Optional Additional [2]		Supplemental [3]		Total			CAPACITY (for PMONTH	
	Days	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	Total	On-Peak	Off-Peak
Jan [4]	20	3,328	1,600	27	0	0	0	3,355	1,600	4,955	7.730	5.161
Feb [5]	28	4,536	2,240	0	0	0	0	4,536	2,240	6,776	11.571	8.000
Mar	31	5,208	2,480	210	0	0	0	5,418	2,480	7,898	12.484	8.000
Apr	30	5,040	2,400	461	0	0	0	5,501	2,400	7,901	13.098	8.000
May	31	5,208	2,480	340	0	56	0	5,604	2,480	8,084	12.912	8.000
Jun	30	5,040	2,400	261	0	0	0	5,301	2,400	7,701	12.621	8.000
Jul	31	5,208	2,480	0	0	0	0	5,208	2,480	7,688	12.000	8.000
Aug	31	5,208	2,480	0	0	16	0	5,224	2,480	7,704	12.037	8.000
Sep	30	5,040	2,400	70	0	9	0	5,119	2,400	7,519	12.188	8.000
Oct	31	5,208	2,480	359	0	60	0	5,627	2,480	8,107	12.965	8.000
Nov	30	5,040	2,400	520	0	0	0	5,560	2,400	7,960	13.238	8.000
Dec	31	5,208	2,480	427	0	7	0	5,642	2,480	8,122	13.000	8.000
TOTAL		59,272	28,320	2,675	0	148	0	62,095	28,320	90,415		

[1] Regular energy assumes 12 mw on-peak (14 hours/day) and 8 mw off-peak (10 hours/day).

[2] Optional Additional energy estimated using Jan 2004 through December 2005 actuals.

[3] Supplemental energy estimated using Jan 2004 through December 2005 actuals.

[4] HC&S is scheduled to take their allowed 262 hour annual maintenance shutdown period during January 6 thru January 16, 2007. In addition, HC&S is schedule to reduce their On Peak capacity from 12 MW to 8 MW on (1 day) January 30, 2007.

[5] HC&S is scheduled to reduce their On Peak capacity from 12 MW to 8 MW on (3 days) February 21 thru 23, 2006

CA-IR-70

Ref: MECO-WP-404, page 23.

The referenced workpaper is the regulating reserve input file that indicates the spinning reserve requirement is shown for the first seven days of January.

a. Please indicate if the spinning reserve requirement shown in the referenced workpaper is representative of each month of the 2007 test year.

b. If not, please provide the spinning reserve requirement for January through December 2007..

MECO Response:

a. The regulating reserve input file shown in page 23 of MECO-WP-404 represents the test year production simulation for the month of January. This is the complete regulating reserve input file. Since no subsequent dates (February-December) are explicitly coded, P-MONTH will proceed to use the January values (15 MW) for subsequent periods of the test year.

b. Not applicable

CA-IR-71

Ref: MECO-WP-404, pages 24–53.

The referenced workpaper contains Pattern 12, Pattern 13, Pattern 15, and Pattern 19.

a. Please indicate which MECO generating unit or power purchase is represented by each of the aforementioned pattern files.

b. Please provide all other pattern files that were used in the production simulation, indicating which MECO generating unit or power purchase is represented by each pattern file.

MECO Response:

a. Pattern files 12 and 13 as shown in MECO-WP-404, pages 24-35 represent the Kaheawa Wind Power on and off peak forecasted hourly generation for the test year. Pattern file 15 as shown in MECO-WP-404, pages 36-41 represent the Hana generating units forecasted operation in the test year. Pattern file 19 represents the Kahului units 1 and 2 availability periods for cycling and baseloaded operational types. Please refer to CA-IR-65 for additional information regarding pattern file 19.

b. No other pattern files were used in the test year production simulation.

CA-IR-72

Ref: MECO-WP-404, page 85, MECO-WP-501, page 1.

The MECO generating unit Normal Top Load ratings on MECO-WP-404, page 85 do not correspond with the MECO generating unit Normal Top Load ratings on MECO-WP-501, page 1. Please see the table below.

Generating Unit	MECO-WP-404, Page 85 Normal Top Load Rating (MW)	MECO-WP-501, Page 1 Normal Top Load Rating (MW)
Kahului 1	4.71	5.00
Kahului 2	4.76	5.00
Kahului 3	10.98	11.50
Kahului 4	11.88	12.50
Maalaea 4	5.51	5.60
Maalaea 5	5.51	5.60
Maalaea 6	5.51	5.60
Maalaea 7	5.51	5.60
Maalaea 8	5.48	5.60
Maalaea 9	5.48	5.60
Maalaea 10	12.34	12.50
Maalaea 11	12.34	12.50
Maalaea 14/15/16	53.50	58.00
Maalaea 17/18/19	53.50	58.00

Please identify the normal top load ratings for the above MECO (Maui Division) generating units that were used in the MECO production simulation for the test year

MECO Response:

The Normal Top Load ratings on MECO-WP-404, page 85, are the Net Normal Top Load ratings of the MECO units. The Normal Top Load ratings on MECO-WP-501, page 1, are the Gross Normal Top Load ratings of the MECO units.

The normal top load ratings on MECO-WP-404, page 85, were used in the MECO production simulations for the test year. MECO-WP-404, page 18, shows the P-Month inputs

regarding generating unit normal top load. Column 'Cap 4' contains the normal top load rating of each MECO generating unit, which corresponds to the data in MECO-WP-404, page 85.

CA-IR-73

Ref: MECO-WP-404, page 89.

a. Please explain any tests or related data that were used to develop the Heat Rate Constants for each generating unit.

b. Please provide copies of all workpapers, analyses and source documents that support this information. The workpapers and analysis should set forth all computations, state all assumptions made in performing such calculations, and explain the basis for such assumptions.

MECO Response:

a. Periodically, MECO performs heat rate tests on their existing units. When historical data permitted, a five year average (2001-2005 and any heat rate tests performed through August 2006) of heat rate test data was used to calculate the Heat Rate Constants (i.e., ABC coefficients). However, for some units (M1, M2, M3, MX1, MX2, M8, M9, M14 and 15, M15 and 16, M17 and 18, M18 and 19), heat rate test data were only available for a limited number of years, and therefore, the Heat Rate Constants were based on the available data. The date of the data used to generate the Heat Rate Constants are shown below for each MECO unit:

Kahului 1: 1/5/01, 6/15/01, 9/6/01, 11/26/01, 2/4/02, 4/25/02, 7/29/02, 12/5/02, 1/23/03, 2/28/03, 4/23/03, 7/17/03, 12/5/03, 1/21/04, 3/15/04, 5/22/04, 9/18/04, 12/2/04, 1/31/05, 3/28/05, 6/18/05, 8/19/05, 11/5/05, 2/25/06, 5/19/06, 8/12/06

Kahului 2: 1/8/01, 1/31/01, 6/8/01, 9/19/01, 12/26/01, 2/1/02, 4/24/02, 8/14/02, 12/23/02, 1/20/03, 6/23/03, 8/27/03, 10/25/03, 2/13/04, 6/16/04, 8/16/04, 10/4/04, 3/12/05, 6/2/05, 10/3/05, 11/21/05, 2/13/06, 5/4/06, 8/1/06

Kahului 3:	1/10/01, 6/14/01, 9/20/01, 11/8/01, 1/2/02, 5/9/02, 8/15/02, 9/9/02, 12/16/02, 1/16/03, 5/30/03, 8/20/03, 10/15/03, 12/17/03, 2/9/04, 5/27/04, 9/17/04, 11/11/04, 2/2/05, 6/22/05, 7/20/05, 11/24/05, 11/25/05, 1/7/06, 4/26/06, 5/12/06, 5/29/06, 7/22/06
Kahului 4:	1/15/01, 4/11/01, 9/17/01, 12/27/01, 2/6/02, 4/11/02, 4/26/02, 8/12/02, 11/27/02, 1/15/03, 4/14/03, 4/17/03, 6/2/03, 8/9/03, 8/11/03, 8/25/03, 11/14/03, 12/11/03, 2/20/04, 6/7/04, 6/8/04, 7/28/04, 8/2/04, 8/7/04, 8/12/04, 12/16/04, 2/17/05, 4/13/05, 5/24/05, 8/27/05, 12/22/05, 1/21/06, 4/15/06, 8/31/06
EMD Units:	(MX1, MX2, M1, M2, M3) 3/13/02, 3/19/04, 3/2/05, 3/5/05, 3/14/06 The EMD units were tested only at their maximum rating during source testing because they are dispatched only at their normal top load. Therefore, Heat Rate Constants could not be determined for these units. To determine Heat Rate Constants for a second degree polynomial curve-fit, at least four data points are needed.
Maalaea 4:	4/17/01, 12/19/03, 10/29/04, 12/29/04, 4/8/05, 3/30/06
Maalaea 5:	11/14/01, 6/26/02, 6/7/04, 12/7/04, 11/18/05
Maalaea 6:	7/21/01, 3/19/02, 5/14/04, 3/18/05, 2/1/06
Maalaea 7:	5/11/01, 4/16/02, 12/3/02, 5/27/04, 11/22/05
Maalaea 8:	3/12/03, 8/13/04, 7/29/05, 11/25/05
Maalaea 9:	4/30/04, 3/30/05
Maalaea 10:	4/20/01, 3/11/02, 10/6/03, 5/24/04, 1/28/05, 1/24/06

Maalaea 11: 1/3/01, 3/5/02, 9/17/03, 9/25/03, 7/16/04, 1/21/05, 1/30/06

Maalaea 12: 11/7/01, 3/26/02, 9/11/03, 2/23/04, 5/9/05, 1/31/06

Maalaea 13: 4/18/01, 9/7/01, 3/12/02, 11/26/03, 3/1/04, 9/28/05

Maalaea 14 and 15, Maalaea 15 and 16, Maalaea 17 and 18, Maalaea 18 and 19:

4/25/05, 5/10/05

The Heat Rate test data are voluminous and is available for inspection at HECO's Regulatory Affairs Division office, Suite 1301, Central Pacific Plaza, 220 South King Street, Honolulu, Hawaii. Please contact Dean Matsuura at 543-4622 to make arrangements to inspect the requested information. An electronic version of the requested data is being provided on a compact disc.

M18 was installed after the 2007 test year production simulations were performed. Therefore, due to the similarities between Maalaea units M14-15/M15-16 and M17-18/18-19, the same Heat Rate Constants were used for these units based on the heat rate tests performed on M14-15/M15-16.

Data for the Hana units should be omitted from MECO-WP-404, page 89, as the Hana units were modeled as transaction units in the production simulation and the Heat Rate Constants do not apply.

b. The data accumulated from the various heat rate tests were used to calculate the Heat Rate Constants shown in MECO-WP-404, page 89. Data for similar units (i.e., Cooper-Bessemer: M4, M5, M6, M7; Colt-Pielstik: M8, M9; Mitstubishi: M10, M11, M12, M13; EMD: MX1, MX2, M1, M2, M3; Combined Cycle units: M14-15, M15-16, M17-18, M18-19) were grouped together to calculate an average Heat Rate Constant. The Heat Rate Constant calculations are voluminous and are available for inspection at HECO's Regulatory

Affairs Division office, Suite 1301, Central Pacific Plaza, 220 South King Street, Honolulu, Hawaii. Please contact Dean Matsuura at 543-4622 to make arrangements to inspect the requested information. An electronic version of the requested data is being provided on a compact disc.

Pages 5-362 are voluminous and are available for inspection at HECO's Regulatory Affairs Division office, Suite 1301, Central Pacific Plaza, 220 South King Street, Honolulu, Hawaii. Please contact Dean Matsuura at 543-4662 to make arrangements to inspect the requested information. An electronic version of the requested data is being provided on a compact disc.

CA-IR-74

Ref: MECO-WP-404, page 91.

The referenced workpaper contains historical forced outage rates for each MECO generating unit. Please explain why the forced outage rates by type of generating unit were used for the 2007 test year rather than for each individual generating unit.

MECO Response:

The forced outage rate ("FOR") for any particular single unit can vary markedly from year to year. For example, the FOR for Maalaea Unit M11 was 0.09%, 0.09%, 0.89%, 3.51% and 0.06% in 2001, 2002, 2003, 2004 and 2005, respectively. Given this variability, a greater sampling size helps provide a more representative projection of the expected FOR by averaging the experiences of similar type units, such as Maalaea Units M1, M2, M3, X1 and X2. The averaging of the experiences helps mitigate the skewing effect of potentially "outlying" or anomalous data points. Therefore, the average forced outage rates by type of generating unit were used for the 2007 test year rather than for each individual generating unit.

CA-IR-75

Ref: MECO-WP-404, page 92.

The referenced workpaper contains historical maintenance outage rates for each MECO generating unit. Please explain why the maintenance outage rates by type of generating unit were used for the 2007 test year rather than for each individual generating unit.

MECO Response:

The maintenance outage rate ("MOR") for any particular single unit can vary markedly from year to year. For example, the MOR for Maalaea Unit M5 was 1.51%, 2.13%, 4.79%, 1.32% and 0.84% in 2001, 2002, 2003, 2004 and 2005, respectively. Given this variability, a greater sampling size helps provide a more representative projection of the expected MOR by averaging the experiences of similar type units, such as Maalaea Units M1, M2, M3, X1 and X2. The averaging of the experiences helps mitigate the skewing effect of potentially "outlying" or anomalous data points. Therefore, the average maintenance outage rates by type of generating unit were used for the 2007 test year rather than for each individual generating unit.

CA-IR-76

Ref: MECO-WP-404, page 99.

The referenced workpaper contains the test year 2007 estimate of purchased energy from HC&S. Footnotes 2 and 3 indicate that the amounts of Optional Additional energy and Supplemental energy were estimated using January 2004 through December 2005 actual.

a. Please provide the actual amounts of Regular (On-Peak and Off-Peak), Optional Additional, and Supplementary energy purchased from HC&S by month from January 2004 to the present.

b. Please provide all calculations and supporting documentation for the calculation of the estimated test year 2007 amounts of Optional Additional and Supplemental energy.

MECO Response:

a. The amounts of energy purchased from HC&S from January 2004 to the end of 2006 are as shown below:

Maui Electric Company, Ltd.
HC&S PURCHASED ENERGY - 2004

	Emergency		Regular		Supplemental		Optional Additional		Total		
HC&S	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	Total
Jan			3,602,200	2,293,500	0	0	0	0	3,602,200	2,293,500	5,895,700
Feb			4,941,000	2,826,000	0	0	0	0	4,941,000	2,826,000	7,767,000
Mar			5,124,003	2,893,700	0	0	150,997	0	5,275,000	2,893,700	8,168,700
Apr			5,426,548	3,069,000	0	0	236,252	0	5,662,800	3,069,000	8,731,800
May			4,915,711	2,725,200	111,900	0	680,889	0	5,708,500	2,725,200	8,433,700
Jun			4,967,652	2,766,600	0	0	522,348	0	5,490,000	2,766,600	8,256,600
Jul			5,088,600	2,862,000	0	0	0	0	5,088,600	2,862,000	7,950,600
Aug			4,876,200	2,610,000	0	0	0	0	4,876,200	2,610,000	7,486,200
Sep			4,893,019	2,700,000	17,381	0	0	0	4,910,400	2,700,000	7,610,400
Oct	7,990		5,130,210	2,851,200	119,600	0	0	0	5,257,800	2,851,200	8,109,000
Nov			5,037,601	2,784,600	0	0	335,399	0	5,373,000	2,784,600	8,157,600
Dec			4,911,990	2,732,400	14,492	0	271,918	0	5,198,400	2,732,400	7,930,800
Total	7,990	0	58,914,734	33,114,200	263,373	0	2,197,803	0	61,383,900	33,114,200	94,498,100

Maui Electric Company, Ltd.
HC&S PURCHASED ENERGY - 2005

	Emergency		Regular		Supplemental		Optional Additional		Total		
HC&S	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	Total
Jan			3,801,388	2,524,900	0	0	53,212	0	3,854,600	2,524,900	6,379,500
Feb			4,197,600	2,415,600	0	0	0	0	4,197,600	2,415,600	6,613,200
Mar			5,171,030	2,822,400	0	0	268,570	0	5,439,600	2,822,400	8,262,000
Apr			4,655,655	2,665,800	0	0	686,745	0	5,342,400	2,665,800	8,008,200
May	4,492		5,562,908	3,040,200	0	0	0	0	5,567,400	3,040,200	8,607,600
Jun			4,964,400	2,745,000	0	0	0	0	4,964,400	2,745,000	7,709,400
Jul			5,320,800	2,901,600	0	0	0	0	5,320,800	2,901,600	8,222,400
Aug			5,329,744	2,916,000	32,456	0	0	0	5,362,200	2,916,000	8,278,200
Sep			4,915,264	2,660,400	0	0	139,136	0	5,054,400	2,660,400	7,714,800
Oct			5,426,330	3,137,400	0	0	717,070	0	6,143,400	3,137,400	9,280,800
Nov			5,065,177	2,876,400	0	0	703,823	0	5,769,000	2,876,400	8,645,400
Dec			5,504,708	3,276,000	0	0	581,092	0	6,085,800	3,276,000	9,361,800
Total	4,492	0	59,915,004	33,981,700	32,456	0	3,149,648	0	63,101,600	33,981,700	97,083,300

Maui Electric Company, Ltd.
HC&S PURCHASED ENERGY - 2006

	Emergency		Regular		Supplemental		Optional Additional		Total		
HC&S	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	On-Peak	Off-Peak	Total
Jan			4,152,737	2,498,900	355,563	0	0	0	4,508,300	2,498,900	7,007,200
Feb			4,877,416	2,640,600	32,984	0	0	0	4,910,400	2,640,600	7,551,000
Mar			5,196,842	2,953,800	0	0	501,958	0	5,698,800	2,953,800	8,652,600
Apr			5,226,547	3,060,000	125,269	0	649,384	0	6,001,200	3,060,000	9,061,200
May			*5,472,245*	*3,463,200*	*26,765*	*0*	*723,590*	*0*	*6,222,600*	*3,463,200*	*9,685,800*
Jun			5,106,553	2,845,800	0	0	246,647	0	5,353,200	2,845,800	8,199,000
Jul			5,320,931	2,885,400	143,869	0	0	0	5,464,800	2,885,400	8,350,200
Aug			4,888,131	2,779,200	835,869	0	0	0	5,724,000	2,779,200	8,503,200
Sep			5,197,902	2,809,800	110,298	0	0	0	5,308,200	2,809,800	8,118,000
Oct			4,676,804	2,635,051	28,545	0	0	0	4,705,349	2,635,051	7,340,400
Nov			5,128,130	2,818,800	79,270	0	0	0	5,207,400	2,818,800	8,026,200
Dec			5,488,800	3,060,000	0	0	84,000	0	5,572,800	3,060,000	8,632,800
Total	0	0	60,733,038	34,450,551	1,738,432	0	2,205,579	0	64,677,049	34,450,551	99,127,600

b. The calculations of the test year optional additional and supplemental are shown on page 3 of this CA-IR response:

Maui Electric Company, Ltd.

HC&S SUPPLEMENTAL AND OPTIONAL ADDITIONAL ENERGY
DERIVATION OF TEST YEAR 2007 ESTIMATE

Supplemental Energy

	2004 (kWh)	2005 (kWh)	2004 (kWh)	2005 (kWh)	04-05 Average (MWh)	04-05 Average (MWh)
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Apr	0	0	0	0	0	0
May	111,900	0	0	0	56	0
Jun	0	0	0	0	0	0
Jul	0	0	0	0	0	0
Aug	0	32,456	0	0	16	0
Sep	17,381	0	0	0	9	0
Oct	119,600	0	0	0	60	0
Nov	0	0	0	0	0	0
Dec	14,492	0	0	0	7	0
Total	263,373	32,456	0	0	148	0

Optional Additional Energy

	2004 (kWh)	2005 (kWh)	2004 (kWh)	2005 (kWh)	04-05 Average (MWh)	04-05 Average (MWh)
Jan	0	53,212	0	0	27	0
Feb	0	0	0	0	0	0
Mar	150,997	268,570	0	0	210	0
Apr	236,252	686,745	0	0	461	0
May	680,889	0	0	0	340	0
Jun	522,348	0	0	0	261	0
Jul	0	0	0	0	0	0
Aug	0	0	0	0	0	0
Sep	0	139,136	0	0	70	0
Oct	0	717,070	0	0	359	0
Nov	335,399	703,823	0	0	520	0
Dec	271,918	581,092	0	0	427	0
Total	2,197,803	3,149,648	0	0	2,674	0

CA-IR-77

Ref: MECO-WP-404, page 4, MECO-WP-405, page 3.

MECO-WP-404, page 4 lists the fuel expense for the Hana plant as $17,800. Please explain why the Hana fuel expense is not included in MECO-WP-405, page 3 to calculate ocean cargo insurance expense.

MECO Response:

The Hana fuel expense is not included in the ocean cargo insurance expense calculations since the fuel consumed by the Hana generating units is purchased from a third party jobber, delivered to the site at current market price.

CA-IR-78

Ref: MECO-WP-504-d – (MECO Monthly Availability/Reliability Reports).

According to Note 2, MECO prepares a "Monthly Availability/Reliability Report." Please provide complete copies of these reports for all available months of 2004, 2005, 2006 and 2007, to date.

MECO Response:
Copies of the "Monthly Availability/Reliability Reports" for all available months 2004, 2005, 2006, and 2007 are provided herein on pages 2-23.

M-14 *2004 Monthly Availability / Reliability Report* *Serial Number 481-637* *GE LM2500*

Month	dec '03 92720	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month		744	696	744	720	744	720	744	744	720	744	720	744	8784
End of Month Engine Hours		93449	94143	94879	95599	96148.00	96868.00	97583.00	98327	99046	99694	100414	101139.0	
Hours on Hot-Section		2336	3030	3766	4486	5035	5755	6470	7214	7933	8581	9301	10026	
Hours on LPT		36447	37141	37877	38597	39146.00	39866.00	40581.00	41325.00	42044.00	42692.00	43412.00	44137.00	
Hours on GG		36447	37141	37877	38597	39146	39866	40581	41325	42044	42692	43412	44137	744
Engine Hours For Month		729	694	736	720	549.00	720.00	715.00	744.00	719.00	648.00	720.00	725.00	8419.00
Scheduled Maintenance Hours		15	1.17	8	0	180.00	0.00	1.50	0	1	96	0	19	321.67
Unscheduled Maintenance Hours		0	0	0	0	1.00	0.00	0.00	0	0	0	0	0	1.00
Total Maintenance Hours		15	1.17	8	0	181.00	0.00	1.50	0.00	1.00	96.00	0.00	19.00	322.67
Forced Outages		0	0	0	0	1	0	0	0	0	0	0	0	1
Duration Of Forced Outages		0	0	0	0.00	1.00	0.00	0.00	0	0	0	0	0	1.00
Attempted Starts	1016	1017	1018	1019	1019	1024.00	1024.00	1028.00	1028	1029	1035	1035	1036	1.00
Successful Starts	949	950	951	952	952	957.00	957.00	961.00	961	962	968	968	969	1.00
Failures To Start		0	0	0	0	0	0	0	0	0	0	0	0	0
Integrater Reading	31260.7	31660	32044.2	32443.1	32838.2	33126.80	33527.20	33915.80	34320.4	34699.8	35033.8	35407.3	35776.7	
Megawatt Hours Generated		14374.8	13831.2	14360.4	14223.6	10389.60	14414.40	13989.60	14565.60	13658.40	12024.00	13446.00	13298.40	162.58
Fuel Totalizer (BBL)	3522080.2	3549820.2	3576293.5	3603956.7	3631651.7	3651939.70	3679953.50	3707280.70	3735365	3762034	3785595.2	3812081.7	3838326.0	
Fuel Consumed (BBL)		27740	26473.3	27663.2	27,695.00	20288.00	28013.80	27327.20	28084.30	26669.00	23561.20	26486.50	26244.30	316245.80
Fuel Consumed (GALLONS)		1165080	1111878.6	1161854.4	1,163,190.00	852096.00	1176579.60	1147742.40	1179540.60	1120098.00	989570.40	1112433.00	1102260.60	13282323.60
Heat Rate (BTU's/KWH)		11184.56092	11093.34484	11164.78008	11285.11873	11317.61	11263.92	11321.50	11175.05	11316.74	11356.98	11416.84	11437.99	11277.87
Heat Rate (KWH/BBL)		*518.1975487*	*522.458477*	*519.1156482*	*513.5800686*	*512.11*	*514.55*	*511.93*	*518.64*	*512.15*	*510.33*	*507.65*	*506.72*	*513.95*
Thermal Efficiency % (LHV)		32.48177473	32.74885919	32.53932325	32.19234081	32.10	32.25	32.09	32.51	32.10	31.99	31.82	31.76	32.22
Turbine Oil Added		35	30	37	35	20.00	30.00	20.00	30	30	30	18	22	337.00
Turbine Oil Consmption Ounces/hour		6.145404664	5.53314121	6.434782609	6.222222222	4.66	5.33	3.58	5.16	5.34	5.93	3.20	3.88	5.12
Generator Oil Added		0	10	0	0	25.00	0.00	0.00	0	0	25	0	20	80.00
Generator Oil Consmption		0	1.844380403	0	0	5.83	0.00	0.00	0.00	0.00	4.94	0.00	3.53	1.35
End of Month HRSG Hrs.	46519	47243	47936	48666	49386	49933.00	50653.00	51365.00	52109	52827	53444	54164	54888	
Hours in Combined Cycle		724	693	730	720	547.00	720.00	712.00	744.00	718.00	617.00	720.00	724.00	8369.00
Hours in Simple Cycle		5	1	6	0	2.00	0.00	3.00	0.00	1.00	31.00	0.00	1.00	50.00
Availability %		97.98387097	99.83189655	98.92473118	100	75.67	100.00	99.80	100.00	99.86	96.63978495	100	97.44623656	96.33
Reliability %		100	100	100	100	99.87	100.00	100.00	100.00	100.00	100	100	100	99.99
		First Quarter	Availability Reliability	98.91349957 100	Second Quarter	Availability Reliability	91.890681 99.95519713	Third Quarter	Availability Reliability	99.8864994 100	Fourth Quarter	Availability Reliability	98.02867384 100	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
June outage included switchgear, diverter door, gen breaker, & HRSG maintenance. Hot-section @ 91113 hours. 10/26/03 Vibration monitor upgrade 10/24 - 10/26
*OCT HRSG repair on LP section and Super heater drain. Total duration 96 hrs., M14 available in simple cycle for 71 of the 96 hours.

M-15 2004 Monthly Availability / Reliability Report Serial Number 1 MG 26167 ABB PK2211

Month	dec '03 86394	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month		744	696	744	720	744	720	744	744	720	744	720	744	8784
End of Month Engine Hours		87134	87830	88570	89290	89972	90692	91436	92180	92898	93640	94360	95104	
Hours since Overhaul		30036	30732	31472	32192	32874	33594	34338	35082	35800	36542	37262	38006	
Engine Hours For Month		740	696	740	720	682	720	744	744	718	742	720	744	8710
Scheduled Maintenance Hours		0	0	0	0	27	0	0	0	0	0	0	0	27
Unscheduled Maintenance Hours		2	0	1.5	0	17	0	0	0	0	0	0	0	20.5
Total Maintenance Hours		2	0	1.5	0	44	0	0	0	0	0	0	0	47.5
Forced Outages		1	0	1	0	1	0	0	0	0	1	0	0	4
Duration Of Forced Outages		2	0	1.5	0.00	17	0	0	0	0	2	0	0	22.5
Start Attempts		1	0	1	0.00	6	0	0	0	0	1	0	0	9
Successful Starts		1	0	1	0	4	0	0	0	0	1	0	0	7
Total Starts	115	116	116	117	117	121	121	121	121	121	122	122	122	122
Failures To Start		0	0	0	0	0	0	0	0	0	0	0	1	1
Integrator Reading	22805.7	23144	23455.5	23798.6	24143.6	24388.7	24737.7	25091.5	25454.8	25798.7	26122.6	26469.2	26814.5	
Megawatt Hours Generated		9743.04	8971.2	9881.28	9936	7058.88	10051.2	10189.44	10463.04	9904.32	9328.32	9982.08	9944.64	115453.44
Combined Power		37509.84	34333.2	38926.08	39027.6	28306.08	39452.4	39864.24	40559.04	38344.32	36753.12	38281.68	38143.44	449501.04
Combined Fuel Usage		54184.2	49523.9	55340.7	55558.5	40736.2	55971.8	56732.6	56897.8	54415.4	52581.3	54505.6	54362.7	640810.7
Combined Heat Rate (BTU's/KWH)		8372.24	8360.16	8239.83	8250.74	8340.94	8222.62	8248.28	8130.59	8224.98	8291.85	8252.10	8260.29	8266.219684
Combined Heat Rate (KWH/BBL)		692.2652729	693.2652719	703.3897294	702.4595696	694.8630456	704.8620913	702.6690122	712.8402153	704.6593428	698.9770127	702.3439793	701.6472692	701.1868177
Thermal Efficiency % (LHV)		43.39272678	43.45540894	44.09003245	44.03172797	43.55556095	44.18232337	44.04485629	44.68240992	44.16961464	43.81343356	44.02448251	43.98081117	43.95194904
Oil Added		0	110	55	0	0	110	110	110	0	0	110	0	605
Oil Consumption		0	20.22988506	9.513513514	0	0	19.55555556	18.92473118	18.92473118	0	0	19.55555556	0	8.891997671
Availability %		99.7311828	100	99.7983871	100	94.08602151	100	100	100	100	100	100	100	99.45924408
Reliability %		99.7311828	100	99.7983871	100	97.71505376	100	100	100	100	100	100	100	99.76662113
		1st Quarter	Availability	99.84318996	2nd Quarter	Availability	98.02867384	3rd Quarter	Availability	100	4th Quarter	Availability	100	
	*BTU's KWH	8324.07895	Reliability	99.84318996	8271.433711	Reliability	99.23835125	8201.285633	Reliability	100	8268.080443	Reliability	100	8266.219684

COMMENTS: Thermal Efficiency is based on Lower Heating Value, everything else is Higher Heating value.

M-16 2004 Monthly Availability / Reliability Report Serial Number 481-669 GE LM2500

Month	dec '03 87016	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month		744	696	744	720.00	744.00	720	744	744	720	744	720	744	8784
End of Month Engine Hours		87760	88413	89146	89866.00	90401.00	91114	91858	92599	93315	94059	94779	95511	
Hours Since Hot-Section		16305	12	745	1465.00	2000.00	2713	3457	4198	4914	5658	6378	7110	881
Hours on LPT		31504	32157	32890	33610.00	34145.00	34858	35602	36343	37059	37803	38523	39255	14987
Hours on GG		31504	32157	32890	33610.00	34145.00	34858	35602	36343	37059	37803	38523	39255	
Engine Hours For Month		744	653	733	720.00	535.00	713	744	741	716	744	720	732	8495.00
Scheduled Maintenance Hours		0	41.33	9	0.00	177.50	7	0	3	4	0	0	12	253.83
Unscheduled Maintenance Hours		0	0	0	0.00	7.00	0	0	0	0	0	0	0	7.00
Total Maintenance Hours		0	41.33	9	0.00	184.50	7	0	3	4	0	0	12	260.83
Forced Outages		0	0	0	0	1	0	0	0	0	0	0	0	1.00
Duration Of Forced Outages		0	0	0	0.00	7.00	0	0	0	0	0	0	0	7.00
Attempted Starts	709	709	713	715	715	719	720	720	721	724	724	724	725	0.00
Successful Starts	625	625	628	630	630	633	634	634	635	638	638	638	639	0.00
Failures To Start		0	0	0	0	0	0	0	0	0	0	0	0	0.00
Integrater Reading	27531.4	27903.4	28223.7	28631.6	29044.60	29346.20	29762.5	30198.2	30629.6	31040.2	31468	31880.6	32294.5	
Megawatt Hours Generated		13392	11530.8	14684.4	14868.00	10857.60	14986.8	15685.2	15530.4	14781.6	15400.8	14853.6	14900.4	171.47
Fuel Totalizer (BBL)	1554744.8	1581189	1604239.6	1631917.1	1659780.60	1680228.80	1708186.8	1737592.2	1766405.7	1794152.1	1823172.2	1851191.3	1879309.7	
Fuel Consumed (BBL)		26444.2	23050.6	27677.5	27863.50	20448.20	27958	29405.4	28813.5	27746.4	29020.1	28019.1	28118.4	324564.90
Fuel Consumed (GALLONS)		1110656.4	968125.2	1162455	1170267.00	858824.40	1174236	1235026.8	1210167	1165348.8	1218844.2	1176802.2	1180972.8	13631725.80
Heat Rate (BTU's/KWH)		11444.56489	11586.09509	10924.08188	10861.69	10915.30	10812.13557	10865.54023	10752.95102	10879.26337	10921.18885	10932.9346	10937.22058	10986.08
Heat Rate (KWH/BBL)		506.4248493	500.2386055	530.5536989	533.60	530.98	536.0469275	533.4122304	538.997345	532.7393824	530.694243	530.1240939	529.9163537	527.81
Thermal Efficiency % (LHV)		31.74383575	31.35606823	33.2562857	33.45	33.28	33.60061349	33.43546481	33.78555222	33.3932892	33.26509532	33.22935711	33.21633549	33.08
Turbine Oil Added		25	20	48	20.00	20.00	30	15	25	30	20	14	35	302.00
Turbine Oil Consmption Ounces/hour		4.301075269	3.920367534	8.381991814	3.56	4.79	5.38569425	2.580645161	4.318488529	5.363128492	3.440860215	2.488888889	6.120218579	4.55
Generator Oil Added		0	5	0	0.00	15.00	0	0	0	30	0	0	0	50.00
Generator Oil Consmption		0	0.980091884	0	0.00	3.59	0.00	0.00	0.00	5.36	0	0	0	0.83
End of Month HRSG Hrs.	46651	47393	48039	48768	49488	50003	50715	51459	52199	52913	53657	54377	55108	
Hours in Combined Cycle		742	646	729	720	515	712	744	740	714	744	720	731	8457.00
Hours in Simple Cycle		2	7	4	0	20	1	0	1	2	0	0	1	38.00
Availability %		100	94.06178161	98.79032258	100	75.2016129	99.02777778	100	99.59677419	99.44444444	100	100	98.38709677	97.03
Reliability %		100	100	100	100	99.05913978	100	100	100	100	100	100	100	99.92
		First Quarter	Availability Reliability	97.61736806 100	Second Quarter	Availability Reliability	91.40979689 99.68637993	Third Quarter	Availability Reliability	99.68040621 100	Fourth Quarter	Availability Reliability	99.46236559 100	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
Generator Overhaul @ 82343 hours 6/9/03 - 6/16/03 Vibration monitor upgrade 10/31/03 - 11/02/03 Hot-Section 02/27/04 - 02/29/04 (16,946 HOURS)

M-17 2004 Monthly Availability / Reliability Report Serial Number 481-718 GE LM2500

Month	dec 03 16273.5	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month		744	696	744	720	744	720	744	744	720	744	720	744	8784
End of Month Engine Hours		16371.8	16492.1	16769.4	16964.1	17293.1	17541.2	17863.9	18263.2	18629.7	18976.7	19394.3	19808.7	
Hours Since Hot-Section		16371.8	16492.1	16769.4	16964.1	17293.1	227.2	549.9	949.2	1315.7	1662.7	2080.3	2494.7	
Hours on LPT		16371.8	16492.1	16769.4	16964.1	17293.1	17541.2	17863.9	18263.2	18629.7	18976.7	19394.3	19808.7	
Hours on GG		16371.8	16492.1	16769.4	16964.1	17293.1	17541.2	17863.9	18263.2	18629.7	18976.7	19394.3	19808.7	
Engine Hours For Month		98.3	120.3	277.3	194.7	329	248.1	322.7	399.3	366.5	347	417.6	414.4	3535.20
Scheduled Maintenance Hours		0	4	0	9.5	0	54	7.75	1.75	2	0	9	6	94.00
Unscheduled Maintenance Hours		0	0	0	0	0	0	4.5	0	0	0	0	0	4.50
Total Maintenance Hours		0	4	0	9.5	0	54	12.25	1.75	2	0	9	6	98.50
Forced Outages		0	0	0	0	0	0	1	0	0	0	0	0	1.00
Duration Of Forced Outages		0	0	0	0	0	0	4.5	0	0	0	0	0	4.50
Attempted Starts	1511	1526	1545	1569	1589	1616	1636	1663	1693	1720	1749	1779	1811	300.00
Successful Starts	1481	1499	1518	1542	1562	1589	1609	1636	1666	1693	1722	1752	1784	300.00
Failures To Start		0	0	0	0	0	0	0	0	0	0	0	0	0.00
Integrator Reading	6994.6	7039.6	7094.3	7217.5	7303.4	7457.2	7576.3	7727.4	7920.2	8093.9	8258.5	8449.4	8643.2	
Megawatt Hours Generated		1620	1969.2	4435.2	3092.4	5536.8	4287.6	5439.6	6940.8	6253.2	5925.6	6872.4	6976.8	59.35
Fuel Totalizer (LBS)	158020300	158953100	160090600	162668400	164468700	167648600	170073200	173162600.0	177077900	180619900	183972900	187893200	191843000	
Fuel Consumed (LBS)		932800	1137500	2577800	1800300	3179900	2424600	3089400	3915300	3542000	3353000	3920300	3949800	33822700.00
Fuel Consumed (BBLS)		3150.287065	3841.607565	8705.842621	6080.040527	10739.27727	8188.449848	10433.63728	13222.89767	11962.17494	11323.87707	13239.78386	13339.41236	114227.29
Fuel Consumed (GALLONS)		132312.0567	161347.5177	365645.3903	255361.7021	451049.6454	343914.8936	438212.766	555361.7021	502411.3475	475602.8369	556070.922	560255.3191	4797546.10
Heat Rate (BTU's/KWH)		11270.66156	11306.74153	11376.5845	11395.28268	11241.66172	11068.83018	11116.88372	11041.58449	11087.20618	11075.85108	11165.72068	11081.4022	11185.70
Heat Rate (KWH/BBL)		514.2388508	512.5979077	509.4509737	508.6150308	515.5654203	523.6155902	521.3522237	524.9076393	522.747747	523.2836743	519.071918	523.8215403	518.21
Thermal Efficiency % (LHV)		32.23363474	32.13077678	31.93351996	31.8811212	32.31678707	32.82138962	32.67951678	32.90237813	32.76699128	32.80058439	32.53658214	32.78415325	32.48
Turbine Oil Added		0	0	0	0	15	0	30	0	10	0	0	10	65.00
Turbine Oil Consumption Ounces/hour		0	0	0	0	5.835866261	0	11.89959715	0	3.492496589	0	0	3.088803089	2.03
Generator Oil Added		0	0	0	0	0	0	0	0	0	0	0	0	0.00
Generator Oil Consumption		0	0	0	0	0	0	0	0	0	0	0	0	0.00
End of Month HRSG Hrs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hours in Combined Cycle		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Hours in Simple Cycle		98.3	120.3	277.3	194.7	329	248.1	322.7	399.3	366.5	347	417.6	414.4	3535.20
Availability %		100	99.42528736	100	98.68055556	100	92.5	98.35349462	99.76478495	99.72222222	100	98.75	99.19354839	98.88
Reliability %		100	100	100	100	100	100	99.39516129	100	100	100	100	100	99.95
		First Quarter	Availability Reliability	99.80842912 100	Second Quarter	Availability Reliability	97.06018519 100	Third Quarter	Availability Reliability	99.28016726 99.7983871	Fourth Quarter	Availability Reliability	99.31451613 100	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.

M-19 2004 Monthly Availability / Reliability Report Serial Number 481-759 GE LM2500

Month	dec'03 13342.6	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month		744	696	744	720	744	720	744	744	720	744	720	744	8784
End of Month Engine Hours		13607.4	13966.5	14141.1	14552.7	15048.1	15497.6	15988.9	16508.1	16944.7	17465.6	17884.7	18170.2	
Hours Since Hot-Section		3388.4	3747.5	3922.1	4333.7	4829.1	5278.6	5769.9	6289.1	6725.7	7246.6	7665.7	7951.2	
Hours on LPT		13607.4	13966.5	14141.1	14552.7	15048.1	15497.6	15988.9	16508.1	16944.7	17465.6	17884.7	18170.2	
Hours on GG		13607.4	13966.5	14141.1	14552.7	15048.1	15497.6	15988.9	16508.1	16944.7	17465.6	17884.7	18170.2	
Engine Hours For Month		264.8	359.1	174.6	411.6	495.4	449.5	491.3	519.2	436.6	520.9	419.1	285.5	4827.60
Scheduled Maintenance Hours		12.25	2.5	0	9.42	0	1	0	3.25	2	0	3	1	34.42
Unscheduled Maintenance Hours		0	0	0.13	1	0.46	0	1.25	0	0	0	0	0	2.84
Total Maintenance Hours		12.25	2.5	0.13	10.42	0.46	1	1.25	3.25	2	0	3	1	37.26
Forced Outages		0	0	1	1	1	0	1	0	0	0	0	0	4.00
Duration Of Forced Outages		0	0	0.13	1	0.46	0	1.25	0	0	0	0	0	2.84
Attempted Starts	1201	1232	1261	1284	1315	1347	1376	1408	1439	1475	1506	1536	1569	368.00
Successful Starts	1168	1198	1227	1250	1281	1313	1342	1374	1405	1440	1471	1501	1534	366.00
Failures To Start		0	0	0	0	0	0	0	0	0	0	0	0	0.00
Integrater Reading	5988.6	6104.9	6270.4	6345	6527.1	6758.8	6973	7198.8	7442.1	7644.5	7880.1	8065.6	8194.1	
Megawatt Hours Generated		4186.8	5958	2685.6	6555.6	8341.2	7711.2	8128.8	8758.8	7286.4	8481.6	6678	4626	79.40
Fuel Totalizer (LBS)	121748900	124130200	127484500	129017600	132710100	137367700	141670800	146234200.0	151150200	155229200	160030800	163837800	166470600	
Fuel Consumed (LBS)		2381300	3354300	1533100	3692500	4657600	4303100	4563400	4916000	4079000	4801600	3807000	2632800	44721700.00
Fuel Consumed (BBLS)		8042.215468	11328.26748	5177.642688	12470.44917	15729.82101	14532.59034	15411.68524	16602.49916	13775.75144	16216.14319	12857.14286	8891.590679	151035.80
Fuel Consumed (GALLONS)		337773.0496	475787.234	217460.9929	523758.8652	660652.4823	610368.7943	647290.7801	697304.9645	578581.5603	681078.0142	540000	373446.8085	6343503.55
Heat Rate (BTU's/KWH)		11132.88653	11019.89076	11173.90672	11025.1357	10929.73267	10922.83461	10988.4892	10986.08995	10957.62876	11081.1307	11158.66779	11140.07531	11043.04
Heat Rate (KWH/BBL)		520.6028136	525.9409713	518.6916444	525.6907678	530.2793971	530.6142827	527.4439409	527.5591294	528.9294043	523.0343552	519.4	520.2668642	524.87
Thermal Efficiency % (LHV)		32.63254208	32.96714968	32.51274575	32.95146636	33.23909186	33.26008323	33.06135916	33.06857942	33.1544713	32.78495652	32.55714705	32.61148403	32.90
Turbine Oil Added		0	0	0	0	0	0	0	0	0	0	0	0	0.00
Turbine Oil Consumption Ounces/hour		0	0	0	0	0	0	0	0	0	0	0	0	0.00
Generator Oil Added		0	0	0	0	0	0	0	0	0	0	0	0	0.00
Generator Oil Consumption		0	0	0	0	0	0	0	0	0	0	0	0	0.00
End of Month HRSG Hrs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hours in Combined Cycle		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Hours in Simple Cycle		264.8	359.1	174.6	411.6	495.4	449.5	491.3	519.2	436.6	520.9	449.4	450.4	5022.80
Availability %		98.35349462	99.6408046	99.98252688	98.55277778	99.93817204	99.86111111	99.83198925	99.56317204	99.72222222	100	99.58333333	99.8655914	99.58
Reliability %		100	100	99.98252688	99.86111111	99.93817204	100	99.83198925	100	100	100	100	100	99.97
		First Quarter	Availability Reliability	99.3256087 99.99417563	Second Quarter	Availability Reliability	99.45068698 99.93309438	Third Quarter	Availability Reliability	99.72222222 100	Fourth Quarter	Availability Reliability	99.81630824 100	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
Hot-section @ 10,219 hours

M-14 2005 Monthly Availability / Reliability Report Serial Number 481-637 GE LM2500

Month	Dec 04	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	101139.0	101874.00	102546.00	103286.00	104006.00	104681.00	105349.00	106093.00	106828.00	107506.00	108204.00	108924.00	109668	
Hours on Hot-Section	10026.00	10761.00	11433.00	12173.00	12893.00	13568.00	664.00	1408.00	2143.00	2821.00	3519.00	4239.00	4983.00	
Hours on LPT	44137.00	44872.00	45544.00	46284.00	47004.00	47679.00	48347.00	49091.00	49826.00	50504.00	698.00	1418.00	2162.00	
Hours on GG	44137.00	44872.00	45544.00	46284.00	47004.00	47679.00	48347.00	49091.00	49826.00	50504.00	698.00	1418.00	2162.00	
Engine Hours For Month	725.00	735.00	672.00	740.00	720.00	675.00	668.00	744.00	735.00	678.00	698.00	720.00	744.00	8529.00
Scheduled Maintenance Hours	19.00	8.30	0.00	4.00	0.00	69.00	52.00	0.00	0.00	41.00	46.00	0.00	0.00	220.30
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Total Maintenance Hours	19.00	8.30	0.00	4.00	0.00	69.00	52.00	0.00	0.00	42.00	46.00	0.00	0.00	221.30
Forced Outages	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Duration Of Forced Outages	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	9.50	*0.00*	*0.00*	*0.00*	*0.00*	9.50
Attempted Starts	1036.00	1037.00	1037.00	1038.00	1038.00	1040.00	1048.00	1048.00	1051.00	1053.00	1056.00	1056.00	1056.00	20.00
Successful Starts	969.00	970.00	970.00	971.00	971.00	973.00	981.00	981.00	984.00	985.00	988.00	988.00	988.00	19.00
Failures To Start	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Integrater Reading	35776.70	36139.30	36475.90	36840.70	37183.80	37507.50	37881.10	38307.00	38728.80	39115.60	39517.10	39921.00	40332.20	
Megawatt Hours Generated	13298.40	13053.60	12117.60	13132.80	12351.60	11653.20	13449.60	15332.40	15184.80	13924.80	14454.00	14540.40	14803.20	163998.00
Fuel Totalizer (BBL)	3838326.0	3864427.00	3888390.50	3914576.60	3939832.10	3963991.80	3990265.10	4020167.60	4049780.10	4077141.30	4104196.80	4131530.30	4159371.60	48103670.80
Fuel Consumed (BBL)	26244.30	26101.00	23963.50	26186.10	25255.50	24159.70	26273.30	29902.50	29612.50	27361.20	27055.50	27333.50	27841.30	321045.60
Fuel Consumed (GALLONS)	1102260.60	1096242.00	1006467.00	1099816.20	1060731.00	1014707.40	1103478.60	1255905.00	1243725.00	1149170.40	1136331.00	1148007.00	1169334.60	13483915.20
Heat Rate (BTU's/KWH)	11437.99	11588.87	11461.67	11556.54	11850.78	12016.02	11321.91	11303.47	11302.65	11388.34	10848.80	10895.15	10900.54	11369.56
Heat Rate (KWH/BBL)	506.72	500.12	505.67	501.52	489.07	482.34	511.91	512.75	512.78	508.93	534.24	531.96	531.70	510.25
Thermal Efficiency % (LHV)	31.76	31.35	31.70	31.44	30.66	30.23	32.09	32.14	32.14	31.90	33.49	33.34	33.33	31.98
Turbine Oil Added	22.00	30.00	25.00	37.00	15.00	30.00	60.00	30.00	35.00	25.00	35.00	20.00	15.00	357.00
Turbine Oil Cnsmption Ounces/hour	3.88	5.22	4.76	6.40	2.67	5.69	11.50	5.16	6.10	4.72	6.42	3.56	2.58	5.40
Generator Oil Added	20.00	10.00	25.00	0.00	10.00	20.00	45.00	20.00	15.00	0.00	10.00	20.00	40.00	215.00
Generator Oil Cnsmption	3.53	1.74	4.76	0.00	1.78	3.79	8.62	3.44	2.61	0.00	1.83	3.56	6.88	3.25
End of Month HRSG Hrs.	54888.00	55620.00	56292.00	57031.00	57727.00	58373.00	59027.00	59770.00	60504.00	61180.00	61876.00	62596.00	63340.00	713336.00
Hours in Combined Cycle	724.00	732.00	672.00	739.00	696.00	646.00	654.00	743.00	734.00	676.00	696.00	720.00	744.00	8452.00
Hours in Simple Cycle	1.00	3.00	0.00	1.00	24.00	29.00	14.00	1.00	1.00	2.00	2.00	0.00	0.00	77.00
Availability %	97.45	98.88	100.00	99.46	100.00	90.73	92.78	100.00	98.72	94.17	93.82	100.00	100.00	97.47
Reliability %	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.72	99.86	100.00	100.00	100.00	99.88
														0.00

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
Hot section rebuild 5/30-6/2, Engine replacement 9/29-10/2

M-15 Monthly Availability / Reliability Report Serial Number 1 MG 26167 ABB PK2211

Month	Dec 04	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	95104.00	95848.00	96520.00	97264.00	97984.00	98686.00	99400.00	100139.00	100883.00	101603.00	102347.00	103067.00	103811.00	
Hours since Overhaul	38006.00	38750.00	39422.00	40166.00	40886.00	41588.00	42302.00	43041.00	43785.00	44505.00	45249.00	45969.00	46713.00	
Engine Hours For Month	744.00	744.00	672.00	744.00	720.00	702.00	714.00	739.00	744.00	720.00	744.00	720.00	744.00	8707.00
Scheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	42.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	0.00	0.00	0.00	0.00	0.00	42.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00
Forced Outages	0	0	0	0	0	0	2	1	0	0	0	0	0	3
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	6.00	5.00	0.00	0.00	0.00	0.00	0.00	11.00
Start Attempts	0.00	0.00	0.00	0.00	0.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	4.00
Successful Starts	0.00	0.00	0.00	0.00	0.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	4.00
Total Starts	122.00	122.00	122.00	122.00	122.00	123.00	125.00	126.00	126.00	126.00	126.00	126.00	126.00	4.00
Failures To Start	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrator Reading	26814.50	27154.30	27456.80	27799.80	28122.60	28400.30	28727.40	29081.30	29427.20	29748.70	30071.30	30395.30	30736.10	
Megawatt Hours Generated	9944.64	9786.24	8712.00	9878.40	9296.64	7997.76	9420.48	10192.32	9961.92	9259.20	9290.88	9331.20	9815.04	112942.08
Combined Power	38143.44	37023.84	33400.80	38012.40	35979.84	32373.36	37604.88	40561.92	39201.12	36486.00	36557.28	36792.00	38913.84	442907.28
Combined Fuel Usage	54362.70	52947.10	48107.00	54155.80	52041.60	48186.20	53704.40	58052.90	56684.00	53316.10	52221.70	52826.80	55629.30	637872.90
Combined Heat Rate (BTU's/KWH	8260.29	8288.48	8347.68	8257.22	8383.12	8626.79	8277.13	8295.06	8380.62	8469.28	8279.26	8321.76	8285.41	8350.98
Combined Heat Rate (KWH/BBL)	701.65	699.26	694.30	701.91	691.37	671.84	700.22	698.71	691.57	684.33	700.04	696.46	699.52	694.13
Thermal Efficiency % (LHV)	43.98	43.83	43.52	44.00	43.34	42.11	43.89	43.80	43.35	42.90	43.88	43.66	43.85	43.51
Oil Added	0.00	0.00	0.00	110.00	0.00	0.00	0.00	110.00	0.00	0.00	110.00	0.00	0.00	330.00
Oil Consumption	0.00	0.00	0.00	18.92	0.00	0.00	0.00	19.05	0.00	0.00	18.92	0.00	0.00	4.74
Availability %	100.00	100.00	100.00	100.00	100.00	94.35	98.75	99.33	100.00	100.00	100.00	100.00	100.00	99.49
Reliability %	100.00	100.00	100.00	100.00	100.00	100.00	99.17	99.33	100.00	100.00	100.00	100.00	100.00	100.00
		1st Quarter	Availability	100.00	2nd Quarter	Availability	97.70	3rd Quarter	Availability	99.78	4th Quarter	Availability	100.00	
	BTU's/KWH	8297.79	Reliability	100.00	8429.01	Reliability	99.72	8381.65	Reliability	99.78	8295.47	Reliability	100.00	8350.98

COMMENTS: Thermal Efficiency is based on Lower Heating Value, everything else is Higher Heating value.

M-16 Monthly Availability / Reliability Report Serial Number 481-669 GE LM2500

Month	Dec 04	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	95511.00	96247.00	96898.00	97642.00	98362.00	99016.00	99736.00	100476.00	101209.00	101921.00	102665.00	103370.00	104098.00	
Hours Since Hot-Section	7110.00	7846.00	8497.00	9241.00	9961.00	10615.00	11335.00	12075.00	12808.00	13520.00	14264.00	14969.00	15697.00	
Hours on LPT	39255.00	39991.00	40642.00	41386.00	42106.00	42760.00	43480.00	44220.00	44953.00	45665.00	46409.00	47114.00	47842.00	
Hours on GG	39255.00	39991.00	40642.00	41386.00	42106.00	42760.00	43480.00	44220.00	44953.00	45665.00	46409.00	47114.00	47842.00	
Engine Hours For Month	732.00	736.00	651.00	744.00	720.00	654.00	720.00	740.00	733.00	712.00	744.00	705.00	728.00	8587.00
Scheduled Maintenance Hours	12.00	6.00	21.00	0.00	0.00	52.00	0.00	4.00	11.00	8.00	0.00	14.75	14.00	130.75
Unscheduled Maintenance Hour	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	12.00	6.00	21.00	0.00	0.00	52.00	0.00	4.00	11.00	8.00	0.00	14.75	14.00	130.75
Forced Outages	0	0	0	0	0	0	0	0	0	0	0	1	1	2.00
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	2.00	2.25
Attempted Starts	725	728	734	734	734	742	742	744	748	751	751	753	757	29.00
Successful Starts	639	642	648	648	648	656	656	658	661	664	664	666	670	28.00
Failures To Start	0	0	0	0	0	0	0	0	1	0	0	0	0	1.00
Integrater Reading	32294.50	32688.50	33037.70	33454.40	33852.50	34205.90	34615.20	35032.90	35423.30	35792.80	36148.70	36507.60	36904.70	
Megawatt Hours Generated	14900.40	14184.00	12571.20	15001.20	14331.60	12722.40	14734.80	15037.20	14054.40	13302.00	12812.40	12920.40	14295.60	165967.20
Fuel Totalizer (BBL)	1879309.70	1906155.80	1930299.30	1958269.00	1985055.10	2009081.60	2036512.70	2064663.10	2091734.60	2117689.50	2142855.70	2168349.00	2196137.00	
Fuel Consumed (BBL)	28118.40	26846.10	24143.50	27969.70	26786.10	24026.50	27431.10	28150.40	27071.50	25954.90	25166.20	25493.30	27788.00	316827.30
Fuel Consumed (GALLONS)	1180972.80	1127536.20	1014027.00	1174727.40	1125016.20	1009113.00	1152106.20	1182316.80	1137003.00	1090105.80	1056980.40	1070718.60	1167096.00	13306746.60
Heat Rate (BTU's/KWH)	10937.22	10969.75	11131.09	10806.28	10832.51	10945.50	10789.80	10850.05	11163.86	11308.80	11384.17	11435.74	11265.99	11073.63
Heat Rate (KWH/BBL)	529.92	528.34	520.69	536.34	535.04	529.52	537.16	534.17	519.16	512.50	509.11	506.82	514.45	523.61
Thermal Efficiency % (LHV)	33.22	33.12	32.64	33.62	33.54	33.19	33.67	33.48	32.54	32.12	31.91	31.77	32.25	32.82
Turbine Oil Added	35.00	25.00	15.00	32.00	10.00	20.00	20.00	20.00	15.00	20.00	35.00	20.00	25.00	257.00
Turbine Oil Cnsmption Ounces/I	6.12	4.35	2.95	5.51	1.78	3.91	3.56	3.46	2.62	3.60	6.02	3.63	4.40	3.81
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End of Month HRSG Hrs.	55108.00	55841.00	56485.00	57229.00	57936.00	58505.00	59222.00	59951.00	60681.00	61391.00	62135.00	62837.00	63562.00	715775.00
Hours in Combined Cycle	731.00	733.00	644.00	744.00	707.00	569.00	717.00	729.00	730.00	710.00	744.00	702.00	725.00	8454.00
Hours in Simple Cycle	1.00	3.00	7.00	0.00	13.00	85.00	3.00	11.00	3.00	2.00	0.00	3.00	3.00	133.00
Availability %	98.39	99.19	96.88	100.00	100.00	93.01	100.00	99.46	98.52	98.89	100.00	97.92	97.85	98.51
Reliability %	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.97	99.73	99.97
		First Quarter	Availability Reliability	98.69 100.00	Second Quarter	Availability Reliability	97.67 100.00	Third Quarter	Availability Reliability	98.96 100.00	Fourth Quarter	Availability Reliability	98.59 99.90	32.83

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
Generator Overhaul @ 82343 hours 6/9/03 - 6/16/03 Vibration monitor upgrade 10/31/03 - 11/02/03 Hot-Section 02/27/04 - 02/29/04 (16,946 HOURS)

M-17 Monthly Availability / Reliability Report Serial Number 481-718 GE LM2500

Month	Dec 04	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	19808.70	20088.30	20317.10	20607.90	20836.90	21262.20	21636.20	22040.40	22466.60	22783.30	23147.50	23469.30	23797.60	
Hours Since Hot-Section	2494.70	2774.30	3003.10	3293.90	3522.90	3948.20	4322.20	4726.40	5152.60	5469.30	5833.50	6155.30	6483.60	
Hours on LPT	19808.70	20088.30	20317.10	20607.90	20836.90	21262.20	21636.20	22040.40	22466.60	22783.30	23147.50	23469.30	23797.60	
Hours on GG	19808.70	20088.30	20317.10	20607.90	20836.90	21262.20	21636.20	22040.40	22466.60	22783.30	23147.50	23469.30	23797.60	
Engine Hours For Month	414.40	279.60	228.80	290.80	229.00	425.30	374.00	404.20	426.20	316.70	364.20	321.80	328.30	3988.90
Scheduled Maintenance Hours	6.00	4.00	0.00	0.50	0.00	1.50	12.00	15.00	3.00	2.50	0.00	0.00	0.00	38.50
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	6.00	4.00	0.00	0.50	0.00	1.50	12.00	15.00	3.00	2.50	0.00	0.00	0.00	38.50
Forced Outages	0	0	0	0	0	1	0	1	0	0	0	0	0	2.00
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	5.00
Attempted Starts	1811.00	1837.00	1866.00	1895.00	1916.00	1950.00	1988.00	2021.00	2052.00	2081.00	2112.00	2144.00	2176.00	365.00
Successful Starts	1784.00	1810.00	1839.00	1868.00	1889.00	1922.00	1955.00	1988.00	2019.00	2048.00	2079.00	2110.00	2142.00	358.00
Failures To Start	0	0	0	0	0	1	5	0	0	0	0	1	0	7.00
Integrater Reading	8643.20	8773.30	8871.00	8986.80	9070.40	9256.30	9432.20	9625.30	9837.00	9988.00	10164.00	10313.30	10468.10	
Megawatt Hours Generated	6976.80	4683.60	3517.20	4168.80	3009.60	6692.40	6332.40	6951.60	7621.20	5436.00	6336.00	5374.80	5572.80	65696.40
Fuel Totalizer (LBS)	191843000.00	194493500.00	196525400.00	198986200.00	200802600.00	204662400.00	208265100.00	212210800.00	216498400.00	219585000.00	223162400.00	226225300.00	229386700.00	
Fuel Consumed (LBS)	3949800.00	2650500.00	2031900.00	2460800.00	1816400.00	3859800.00	3602700.00	3945700.00	4287600.00	3086600.00	3577400.00	3062900.00	3161400.00	37543700.00
Fuel Consumed (BBLS)	13339.41	8951.37	6862.21	8310.71	6134.41	13035.46	12167.17	13325.57	14480.24	10424.18	12081.73	10344.14	10676.80	126793.99
Fuel Consumed (GALLONS)	560255.32	375957.45	288212.77	349049.65	257645.39	547489.36	511021.28	559673.76	608170.21	437815.60	507432.62	434453.90	448425.53	5325347.52
Heat Rate (BTU's/KWH)	11081.40	11077.04	11307.88	11554.23	11813.50	11289.09	11136.16	11110.03	11012.01	11114.16	11051.68	11154.40	11104.06	11227.02
Heat Rate (KWH/BBL)	523.02	523.23	512.55	501.62	490.61	513.40	520.45	521.67	526.32	521.48	524.43	519.60	521.95	516.44
Thermal Efficiency % (LHV)	32.78	32.80	32.13	31.44	30.75	32.18	32.62	32.70	32.99	32.69	32.87	32.57	32.72	32.37
Turbine Oil Added	10.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	40.00
Turbine Oil Cnsmption Ounces/hour	3.09	0.00	8.39	0.00	0.00	0.00	0.00	0.00	7.51	0.00	0.00	0.00	0.00	1.32
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	13.69	0.00	0.00	0.00	0.00	0.00	0.00	1.14
End of Month HRSG Hrs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hours in Combined Cycle	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Hours in Simple Cycle	414.40	279.60	228.80	290.80	229.00	425.30	374.00	404.20	426.20	316.70	364.20	321.80	328.30	3988.90
Availability %	99.19	99.46	100.00	99.93	100.00	99.73	98.33	97.38	99.60	99.65	100.00	100.00	100.00	99.51
Reliability %	100.00	100.00	100.00	100.00	100.00	99.93	100.00	99.40	100.00	100.00	100.00	100.00	100.00	99.94
		First Quarter	Availability	99.80	Second Quarter	Availability	99.35	Third Quarter	Availability	98.88	Fourth Quarter	Availability	100.00	
			Reliability	100.00		Reliability	99.98		Reliability	99.80		Reliability	100.00	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.

M-19 Monthly Availability / Reliability Report Serial Number 481-759 GE LM2500

Month	Dec 04	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	18170.20	18578.00	19017.30	19368.30	19685.60	20162.70	20642.90	21077.80	21571.60	22047.60	22505.70	22876.80	23309.70	
Hours Since Hot-Section	7951.20	8359.00	8798.30	9149.30	9466.60	9943.70	10423.90	10858.80	11352.60	11828.60	12286.70	12657.80	13090.70	
Hours on LPT	18170.20	18578.00	19017.30	19368.30	19685.60	20162.70	20642.90	21077.80	21571.60	22047.60	22505.70	22876.80	23309.70	
Hours on GG	18170.20	18578.00	19017.30	19368.30	19685.60	20162.70	20642.90	21077.80	21571.60	22047.60	22505.70	22876.80	23309.70	
Engine Hours For Month	285.50	407.80	439.30	351.00	317.30	477.10	480.20	434.90	493.80	476.00	458.10	371.10	432.90	5139.50
Scheduled Maintenance Hours	1.00	8.30	1.50	4.50	0.00	0.00	2.00	35.00	3.00	0.00	0.00	0.00	0.00	54.30
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	1.00	8.30	1.50	4.50	0.00	0.00	2.00	35.00	3.00	0.00	0.00	0.00	0.00	54.30
Forced Outages	0	0	1	2	0	2	0	0	0	0	0	0	0	5.00
Duration Of Forced Outages	0.00	0.00	1.25	1.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75
Attempted Starts	1569.00	1600.00	1628.00	1659.00	1687.00	1719.00	1750.00	1780.00	1811.00	1841.00	1871.00	1902.00	1939.00	370.00
Successful Starts	1534.00	1565.00	1593.00	1624.00	1652.00	1684.00	1715.00	1745.00	1776.00	1806.00	1836.00	1867.00	1902.00	368.00
Failures To Start	0	0	0	0	0	0	0	0	0	0	0	0	2	2.00
Integrater Reading	8194.10	8375.40	8568.30	8723.20	8842.60	9049.30	9268.80	9472.90	9708.60	9929.20	10142.60	10306.60	10499.00	
Megawatt Hours Generated	4626.00	6526.80	6944.40	5576.40	4298.40	7441.20	7902.00	7347.60	8485.20	7941.60	7682.40	5904.00	6926.40	82976.40
Fuel Totalizer (LBS)	166470600.00	170184500.00	174073300.00	177224100.00	179669500.00	183923900.00	188425500.00	192613700.00	197433500.00	201990600.00	206396100.00	209823900.00	213769700.00	
Fuel Consumed (LBS)	2632800.00	3713900.00	3888800.00	3150800.00	2445400.00	4254400.00	4501600.00	4188200.00	4819800.00	4557100.00	4405500.00	3427800.00	3945800.00	47299100.00
Fuel Consumed (BBLS)	8891.59	12542.72	13133.40	10641.00	8258.70	14368.12	15202.97	14144.55	16277.61	15390.41	14878.42	11576.49	13325.90	159740.29
Fuel Consumed (GALLONS)	373446.81	526794.33	551602.84	446921.99	346865.25	603460.99	638524.82	594070.92	683659.57	646397.16	624893.62	486212.77	559687.94	6709092.20
Heat Rate (BTU's/KWH)	11140.08	11137.96	10961.17	11059.69	11135.74	11191.06	11150.79	11157.27	11118.41	11231.98	11224.69	11364.36	11150.73	11156.99
Heat Rate (KWH/BBL)	520.27	520.37	528.76	524.05	520.47	517.90	519.77	519.47	521.28	516.01	516.35	510.00	519.77	519.51
Thermal Efficiency % (LHV)	32.61	32.62	33.14	32.85	32.62	32.46	32.58	32.56	32.68	32.34	32.37	31.97	32.58	32.56
Turbine Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	25.00	10.00	0.00	0.00	0.00	0.00	0.00	35.00
Turbine Oil Cnsmption Ounces/hour	0.00	0.00	0.00	0.00	0.00	0.00	6.66	2.94	0.00	0.00	0.00	0.00	0.00	0.80
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End of Month HRSG Hrs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hours in Combined Cycle	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
Hours in Simple Cycle	450.40	407.80	439.30	351.00	317.30	477.10	480.20	434.90	493.80	476.00	458.10	371.10	432.90	5139.50
Availability %	99.87	98.88	99.59	99.26	100.00	99.93	99.72	95.30	99.60	100.00	100.00	100.00	100.00	99.36
Reliability %	100.00	100.00	99.81	99.87	100.00	99.93	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.97
		First Quarter	Availability	99.25	Second Quarter	Availability	99.89	Third Quarter	Availability	100.00	Fourth Quarter	Availability	100.00	
			Reliability	99.89		Reliability	99.98		Reliability	100.00		Reliability	100.00	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
Auxiliary gearbox bearing failure in July.

M-14 2006 Monthly Availability / Reliability Report Serial Number 481-637 GE LM2500

Month	12/31/2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	109668.0	110407.00	111016.00	111746.00	112381.00	113119.00	113839.00	114537.00	115260.00	115948.00	116676.00	117396.00	118135.00	
Hours on Hot-Section	4987.00	5726.00	6259.00	806.00	6855.00	7593.00	8313.00	9011.00	9734.00	10422.00	1568.00	2288.00	3027.00	3027.00
Hours on LPT	2162.00	2901.00	3434.00	806.00	1441.00	2179.00	2899.00	3597.00	4320.00	5008.00	5736.00	6456.00	7195.00	7195.00
Hours on GG	2162.00	2901.00	3434.00	806.00	4034.00	4772.00	5492.00	6190.00	6913.00	7601.00	1568.00	2288.00	3027.00	3027.00
Engine Hours For Month	744.00	739.00	609.00	730.00	635.00	738.00	720.00	698.00	723.00	688.00	728.00	720.00	739.00	8467.00
Scheduled Maintenance Hours	0.00	5.00	63.00	14.00	9.00	2.00	0.00	18.00	2.50	32.00	16.00	0.00	5.00	166.50
Unscheduled Maintenance Hours	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Total Maintenance Hours	0.00	5.00	63.00	14.00	9.00	2.00	0.00	18.00	2.50	32.00	16.00	0.00	5.00	166.50
Forced Outages	0	0	0	0	3	1	0	0	0	0	1	0	0	5
Duration Of Forced Outages	*0.00*	*0.00*	*0.00*	*0.00*	*76.00*	*4.00*	*0.00*	*0.00*	*0.00*	*0.00*	*4.00*	*0.00*	*0.00*	*84.00*
Attempted Starts	1056.00	1057.00	1060.00	1066.00	1074.00	1079.00	1079.00	1084.00	1087.00	1088.00	1093.00	1093.00	1094.00	38.00
Successful Starts	988.00	989.00	992.00	998.00	1003.00	1005.00	1005.00	1010.00	1013.00	1014.00	1019.00	1019.00	1020.00	32.00
Failures To Start	0	0	0	0	3	3	0	0	0	0	0	0	0	6
Integrater Reading	40332.20	40739.00	41072.20	41457.10	41815.40	42226.30	42621.70	42992.50	43374.00	43734.20	44123.20	44495.30	44852.50	
Megawatt Hours Generated	14803.20	14644.80	11995.20	13856.40	12898.80	14792.40	14234.40	13348.80	13734.00	12967.20	14004.00	13395.60	12859.20	162730.80
Fuel Totalizer (BBL)	4159371.6	4187424.60	4210087.60	4237335.60	4262291.60	4290513.60	4318517.10	4345018.10	4372393.10	4398600.20	4426560.10	4453816.10	4480177.60	
Fuel Consumed (BBL)	27841.30	28053.00	22663.00	27248.00	24956.00	28222.00	28003.50	26501.00	27375.00	26207.10	27959.90	27256.00	26361.50	320806.00
Fuel Consumed (GALLONS)	1169334.60	1178226.00	951846.00	1144416.00	1048152.00	1185324.00	1176147.00	1113042.00	1149750.00	1100698.20	1174315.80	1144752.00	1107183.00	13473852.00
Heat Rate (BTU's/KWH)	10900.54	11102.23	10950.25	11397.21	11213.47	11057.67	11402.17	11506.26	11552.38	11713.51	11571.72	11792.73	11881.48	11428.42
Heat Rate (KWH/BBL)	531.70	522.04	529.29	508.53	516.86	524.14	508.31	503.71	501.70	494.80	500.86	491.47	487.80	507.46
Thermal Efficiency % (LHV)	33.33	32.72	33.18	31.88	32.40	32.85	31.86	31.57	31.45	31.01	31.40	30.81	30.58	31.81
Turbine Oil Added	15.00	17.00	15.00	17.00	193.00	20.00	32.00	17.00	10.00	20.00	50.00	20.00	20.00	431.00
Turbine Oil Cnsmption Ounces/hour	2.58	2.94	3.15	2.98	38.90	3.47	5.69	3.12	1.77	3.72	8.79	3.56	3.46	6.80
Generator Oil Added	40.00	20.00	30.00	20.00	20.00	10.00	70.00	35.00	20.00	20.00	50.00	40.00	40.00	375.00
Generator Oil Cnsmption	6.88	3.46	6.31	3.51	4.03	1.73	12.44	6.42	3.54	3.72	8.79	7.11	6.93	5.67
End of Month HRSG Hrs.	63340.00	64078.00	64669.00	65371.00	65999.00	66725.00	67445.00	67515.00	68155.00	68842.00	69557.00	70277.00	71015.00	
Hours in Combined Cycle	744.00	738.00	591.00	702.00	628.00	726.00	720.00	70.00	640.00	687.00	715.00	720.00	738.00	7675.00
Hours in Simple Cycle	0.00	1.00	18.00	28.00	7.00	12.00	0.00	628.00	83.00	1.00	13.00	0.00	1.00	792.00
Availability %	100.00	99.33	90.63	98.12	88.19	99.19	100.00	97.58	99.66	95.56	97.31	100.00	99.33	97.07
Reliability %	100.00	100.00	100.00	100.00	89.44	99.46	100.00	100.00	100.00	100.00	99.46	100.00	100.00	99.03
		First Quarter	Availability	96.02	Second Quarter	Availability	95.80	Third Quarter	Availability	97.60	Fourth Quarter	Availability	98.88	
			Reliability	100.00		Reliability	96.30		Reliability	100.00		Reliability	99.82	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
*M14 engine replacement (50,000 hr overhaul 2/23-2/25) *M14 #3 bearing failure 4/1/06

M-15 Monthly Availability / Reliability Report Serial Number 1 MG 26167 ABB PK2211

Month	12/31/2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	103811.00	104555.00	105227.00	105971.00	106684.00	107428.00	108148.00	108218.00	108872.00	109592.00	110310.00	111030.00	111774.00	
Hours since Overhaul	46713.00	47457.00	48129.00	48873.00	49586.00	50330.00	51050.00	51120.00	51774.00	52494.00	53212.00	53932.00	54676.00	54676
Engine Hours For Month	744.00	744.00	672.00	744.00	713.00	744.00	720.00	70.00	654.00	720.00	718.00	720.00	744.00	7963.00
Scheduled Maintenance Hours	0.00	0.00	0.00	0.00	3.50	0.00	0.00	674.00	90.00	0.00	0.00	0.00	0.00	767.50
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	0.00	0.00	0.00	0.00	3.50	0.00	0.00	674.00	90.00	0.00	0.00	0.00	0.00	767.50
Forced Outages	0	0	0	0	1	0	0	0	0	0	1	0	0	2
Duration Of Forced Outages	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	22.00	0.00	0.00	25.50
Start Attempts	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Successful Starts	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0
Total Starts	126.00	126.00	126.00	126.00	127.00	127.00	127.00	127.00	128.00	128.00	128.00	128.00	128.00	128
Failures To Start	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrator Reading	30736.10	31088.30	31389.70	31734.20	32057.20	32414.20	32755.40	32785.60	33084.50	33401.50	33731.70	34051.10	34361.60	
Megawatt Hours Generated	9815.04	10143.36	8680.32	9921.60	9302.40	10281.60	9826.56	869.76	8608.32	9129.60	9509.76	9198.72	8942.40	104414.40
Combined Power	38913.84	40458.96	35053.92	39265.20	37364.40	40896.00	38928.96	26667.36	37768.32	36619.20	38514.96	36087.12	35031.60	442656.00
Combined Fuel Usage	55629.30	58110.00	50252.00	57206.80	53908.70	58421.50	56982.50	51491.00	57844.20	55008.40	57990.90	54735.00	52890.00	664841.00
Combined Heat Rate (BTU's/KWH	8285.41	8324.35	8308.66	8444.11	8362.10	8279.54	8483.65	11190.91	8876.60	8706.32	8726.59	8790.78	8750.40	8770.33
Combined Heat Rate (KWH/BBL)	699.52	696.25	697.56	686.37	693.11	700.02	683.17	517.90	652.93	665.70	664.16	659.31	662.35	664.90
Thermal Efficiency % (LHV)	43.85	43.64	43.72	43.02	43.45	43.88	42.82	32.46	40.93	41.73	41.63	41.33	41.52	41.68
Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Availability %	100.00	100.00	100.00	100.00	99.03	100.00	100.00	9.41	87.90	100.00	97.04	100.00	100.00	91.12
Reliability %	100.00	100.00	100.00	100.00	99.51	100.00	100.00	100.00	100.00	100.00	97.04	100.00	100.00	99.71
		1st Quarter	Availability	100.00	2nd Quarter	Availability	99.68	3rd Quarter	Availability	65.77	4th Quarter	Availability	99.01	
			Reliability	100.00		Reliability	99.84		Reliability	100.00		Reliability	99.01	
			Heatrate	8359.04		Heatrate	8375.10		Heatrate	9591.28		Heatrate	8755.92	

COMMENTS: Thermal Efficiency is based on Lower Heating Value, everything else is Higher Heating value.
*M15 6 year annual in June (4 weeks)

M-16 Monthly Availability / Reliability Report Serial Number 481-669 GE LM2500

Month	12/31/2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	104098.00	104835.00	105507.00	106245.00	106961.00	107705.00	108420.00	109062.00	109806.00	110514.00	111253.00	111967.00	112711.00	
Hours Since Hot-Section	15697.00	16434.00	17106.00	17844.00	18560.00	19304.00	20019.00	20661.00	21405.00	22113.00	22852.00	23566.00	24310.00	24310
Hours on LPT	47842.00	48579.00	49251.00	49989.00	50705.00	51449.00	52164.00	52806.00	53550.00	54258.00	54997.00	55711.00	56455.00	56455
Hours on GG	47842.00	48579.00	49251.00	49989.00	50705.00	51449.00	52164.00	52806.00	53550.00	54258.00	54997.00	55711.00	56455.00	56455
Engine Hours For Month	728.00	737.00	672.00	738.00	716.00	744.00	715.00	642.00	744.00	708.00	739.00	714.00	744.00	8613.00
Scheduled Maintenance Hours	14.00	0.00	0.00	6.00	4.00	0.00	5.00	17.00	0.00	12.00	0.00	6.00	0.00	50.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	14.00	0.00	0.00	6.00	4.00	0.00	5.00	17.00	0.00	12.00	0.00	6.00	0.00	50.00
Forced Outages	1	2	0	0	0	0	0	0	0	0	1	0	0	3.00
Duration Of Forced Outages	2	7	0	0	0	0	0	0	0	0	5	0	0	12.00
Attempted Starts	757	760	760	761	762	762	763	776	776	779	780	781	781	24
Successful Starts	670	672	672	673	674	674	675	687	687	688	689	690	690	20
Failures To Start	0	1	0	0	0	0	0	1	0	2	0	0	0	4
Integrater Reading	36904.70	37340.00	37739.40	38169.60	38590.80	39030.30	39443.30	39789.10	40217.60	40621.00	41037.70	41412.50	41780.00	
Megawatt Hours Generated	14295.60	15670.80	14378.40	15487.20	15163.20	15822.00	14868.00	12448.80	15426.00	14522.40	15001.20	13492.80	13230.00	175510.80
Fuel Totalizer (BBL)	2196137.00	2226194.00	2253783.00	2283741.80	2312694.50	2342894.00	2371873.00	2396863.00	2427332.20	2456133.50	2486164.50	2513643.50	2540172.00	
Fuel Consumed (BBL)	27788.00	30057.00	27589.00	29958.80	28952.70	30199.50	28979.00	24990.00	30469.20	28801.30	30031.00	27479.00	26528.50	344035.00
Fuel Consumed (GALLONS)	1167096.00	1262394.00	1158738.00	1258269.60	1216013.40	1268379.00	1217118.00	1049580.00	1279706.40	1209654.60	1261302.00	1154118.00	1114197.00	14449470.00
Heat Rate (BTU's/KWH)	11265.99	11116.52	11120.89	11211.55	11066.56	11062.48	11296.53	11634.64	11447.80	11494.44	11602.67	11803.56	11621.63	
Heat Rate (KWH/BBL)	514.45	521.37	521.16	516.95	523.72	523.92	513.06	498.15	506.28	504.23	499.52	491.02	498.71	509.84
Thermal Efficiency % (LHV)	32.25	32.68	32.67	32.40	32.83	32.84	32.16	31.23	31.73	31.61	31.31	30.78	31.26	31.96
Turbine Oil Added	25.00	28.00	20.00	28.00	30.00	25.00	20.00	15.00	21.00	28.00	22.00	30.00	25.00	292.00
Turbine Oil Consmption Ounces/h	4.40	4.86	3.81	4.86	5.36	4.30	3.58	2.99	3.61	5.06	3.81	5.38	4.30	4.33
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Oil Consmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
End of Month HRSG Hrs.	63562.00	64295.00	64963.00	65700.00	66413.00	67157.00	67870.00	67953.00	68611.00	69318.00	70032.00	70744.00	71488.00	
Hours in Combined Cycle	725.00	733.00	668.00	737.00	713.00	744.00	713.00	83.00	658.00	707.00	714.00	712.00	744.00	7926.00
Hours in Simple Cycle	3.00	4.00	4.00	1.00	3.00	0.00	2.00	559.00	86.00	1.00	25.00	2.00	0.00	687.00
Availability %	97.85	99.06	100.00	99.19	99.44	100.00	99.31	97.72	100.00	98.33	99.33	99.17	100.00	99.30
Reliability %	99.73	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
		First Quarter	Availability Reliability	99.42 100.00	Second Quarter	Availability Reliability	99.58 100.00	Third Quarter	Availability Reliability	98.68 100.00	Fourth Quarter	Availability Reliability	99.50 100.00	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.

M-17 Monthly Availability / Reliability Report Serial Number 481-718 GE LM2500

Month	12/31/2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	23797.60	24096.80	24333.20	24711.20	25042.00	25450.90	25938.50	26491.60	26892.00	27208.20	27650.90	28165.40	28832.90	
Hours Since Hot-Section	6483.60	6782.80	7019.20	7397.20	7728.00	8136.90	8624.50	9177.60	9578.00	9894.20	10336.90	10851.40	11518.90	11518.90
Hours on LPT	23797.60	24096.80	24333.20	24711.20	25042.00	25450.90	25938.50	26491.60	26892.00	27208.20	27650.90	28165.40	28832.90	28832.90
Hours on GG	23797.60	24096.80	24333.20	24711.20	25042.00	25450.90	25938.50	26491.60	26892.00	27208.20	27650.90	28165.40	28832.90	28832.90
Engine Hours For Month	328.30	299.20	236.40	378.00	330.80	408.90	487.60	553.10	400.40	316.20	442.70	514.50	667.50	5035.30
Scheduled Maintenance Hours	0.00	8.50	85.00	4.50	6.00	3.50	4.40	1.00	0.00	27.00	9.00	0.00	10.50	159.40
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.50
Total Maintenance Hours	0.00	8.50	85.00	4.50	14.50	3.50	4.40	1.00	0.00	27.00	9.00	0.00	10.50	167.90
Forced Outages	0	0	0	0	0	0	0	1	0	0	0	0	0	1.00
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00
Attempted Starts	2176.00	2209.00	2234.00	2266.00	2297.00	2329.00	2360.00	2387.00	2417.00	2445.00	2476.00	2498.00	2507.00	331
Successful Starts	2142.00	2174.00	2199.00	2231.00	2262.00	2294.00	2325.00	2352.00	2382.00	2410.00	2441.00	2463.00	2472.00	330
Failures To Start	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Integrater Reading	10468.10	10609.00	10718.90	10900.30	11059.10	11246.70	11462.70	11701.50	11866.40	11966.70	12148.70	12392.30	12719.50	
Megawatt Hours Generated	5572.80	5072.40	3956.40	6530.40	5716.80	6753.60	7776.00	8596.80	5936.40	3610.80	6552.00	8769.60	11779.20	81050.40
Fuel Totalizer (LBS)	229386700.00	232263600.00	234513900.00	238209700.00	241451900.00	245327100.00	249834800.00	254858900.00	258360200.00	260668500.00	264566800.00	269615100.00	276317300.00	
Fuel Consumed (LBS)	3161400.00	2876900.00	2250300.00	3695800.00	3242200.00	3875200.00	4507700.00	5024100.00	3501300.00	2308300.00	3898300.00	5048300.00	6702200.00	46930600.00
Fuel Consumed (BBLS)	10676.80	9715.97	7599.80	12481.59	10949.68	13087.47	15223.57	16967.58	11824.72	7795.68	13165.48	17049.31	22634.92	158495.78
Fuel Consumed (GALLONS)	448425.53	408070.92	319191.49	524226.95	459886.52	549673.76	639390.07	712638.30	496638.30	327418.44	552950.35	716070.92	950666.67	6656822.70
Heat Rate (BTU's/KWH)	11104.06	11101.64	11133.10	11077.57	11101.01	11231.42	11346.83	11439.24	11544.68	12513.09	11646.01	11267.86	11137.24	11378.31
Heat Rate (KWH/BBL)	521.95	522.07	520.59	523.20	522.10	516.04	510.79	506.66	502.03	463.18	497.66	514.37	520.40	509.92
Thermal Efficiency % (LHV)	32.72	32.72	32.63	32.80	32.73	32.35	32.02	31.76	31.47	29.03	31.19	32.24	32.62	31.96
Turbine Oil Added	0.00	20.00	0.00	0.00	0.00	40.00	0.00	0.00	0.00	35.00	0.00	20.00	485.00	600.00
Turbine Oil Cnsmption Ounces/hour	0.00	8.56	0.00	0.00	0.00	12.52	0.00	0.00	0.00	14.17	0.00	4.98	93.00	26.65
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.00	0.00	75.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.66	0.00	18.66
End of Month HRSG Hrs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
Hours in Combined Cycle	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					0.00
Hours in Simple Cycle	328.30	299.20	236.40	378.00	330.80	408.90	487.60	553.10	400.40	316.20	442.70	514.50	667.50	5035.30
Availability %	100.00	98.86	87.35	99.40	97.99	99.53	99.39	99.60	100.00	96.25	98.79	100.00	98.59	97.98
Reliability %	100.00	100.00	100.00	100.00	98.82	100.00	100.00	99.73	100.00	100.00	100.00	100.00	100.00	99.88
		First Quarter	Availability Reliability	95.20 100.00	Second Quarter	Availability Reliability	98.97 99.61	Third Quarter	Availability Reliability	98.62 99.91	Fourth Quarter	Availability Reliability	99.13 100.00	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
* M18 HRSG tie (2/13-2/16) * OTSG duct connection(8/25-8/28)

M-18 Monthly Availability / Reliability Report

Month	12/31/2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	0.00	744.00	672.00	744.00	720.00	744.00	720.00	744.00	744.00	720.00	744.00	720.00	744.00	8760.00
End of Month Engine Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20	440.20	1164.60	
Hours since Overhaul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20	440.20	1164.60	1164.60
Engine Hours For Month	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20	422.00	724.40	1164.60
Scheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Attempts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Successful Starts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Total Starts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Failures To Start	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Integrator Reading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.20	93.90	233.60	
Megawatt Hours Generated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	187.20	3193.20	5029.20	8409.60
Combined Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14306.40	19530.00	24375.60	58212.00
Combined Fuel Usage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27674.77	31558.60	37144.21	96377.58
Combined Heat Rate (BTU's/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11211.61	9365.47	8831.82	9802.97
Combined Heat Rate (KWH/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	516.95	618.85	656.24	597.35
Thermal Efficiency % (LHV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.40	38.79	41.13	37.44
Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1500.00	0.00	0.00	1500.00
Availability %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00
Reliability %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00

1st Quarter	Availability	0.00	2nd Quarter	Availability	0.00	3rd Quarter	Availability	0.00	4th Quarter	Availability	100.00
	Reliability	0.00		Reliability	0.00		Reliability	0.00		Reliability	100.00
	Heatrate	0.00		Heatrate	0.00		Heatrate	0.00		Heatrate	9802.97

COMMENTS:

M-19 Monthly Availability / Reliability Report Serial Number 481-759 GE LM2500

Month	12/31/2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	23309.70	23768.90	24061.90	24544.70	25022.00	25335.10	25747.50	26233.90	26639.70	27039.00	27517.70	28019.70	28444.20	
Hours Since Hot-Section	13090.70	13549.90	13842.90	14325.70	14803.00	15116.10	15528.50	16014.90	16420.70	16820.00	17298.70	17800.70	18225.20	18225.20
Hours on LPT	23309.70	23768.90	24061.90	24544.70	25022.00	25335.10	25747.50	26233.90	26639.70	27039.00	27517.70	28019.70	28444.20	28444.20
Hours on GG	23309.70	23768.90	24061.90	24544.70	25022.00	25335.10	25747.50	26233.90	26639.70	27039.00	27517.70	28019.70	28444.20	28444.20
Engine Hours For Month	432.90	459.20	293.00	482.80	477.30	313.10	412.40	486.40	405.80	399.30	478.70	502.00	424.50	5134.50
Scheduled Maintenance Hours	0.00	4.50	132.00	0.00	7.00	4.00	30.00	15.00	40.00	44.00	14.00	0.00	144.00	434.50
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	0.00	4.50	132.00	0.00	7.00	4.00	30.00	15.00	40.00	44.00	14.00	0.00	144.00	434.50
Forced Outages	0	0	1	0	0	0	0	1	0	0	0	0	0	2.00
Duration Of Forced Outages	0.00	0.00	7.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	8.00
Attempted Starts	1939.00	1972.00	1996.00	2027.00	2057.00	2088.00	2121.00	2150.00	2180.00	2209.00	2248.00	2286.00	2327.00	388
Successful Starts	1902.00	1935.00	1959.00	1990.00	2020.00	2051.00	2084.00	2113.00	2143.00	2172.00	2208.00	2246.00	2276.00	374
Failures To Start	2	0	0	0	0	0	0	0	0	0	3	0	11	14.00
Integrater Reading	10499.00	10709.20	10837.40	11061.10	11281.30	11420.70	11606.40	11812.40	11984.80	12139.90	12327.00	12538.10	12734.40	
Megawatt Hours Generated	6926.40	7567.20	4615.20	8053.20	7927.20	5018.40	6685.20	7416.00	6206.40	5583.60	6735.60	7599.60	7066.80	80474.40
Fuel Totalizer (LBS)	213769700.00	218065900.00	220726600.00	225335300.00	229897000.00	232806000.00	236679200.00	241030000.00	244642600.00	247979700.00	252019200.00	256505100.00	260574500.00	
Fuel Consumed (LBS)	3945800.00	4296200.00	2660700.00	4608700.00	4561700.00	2909000.00	3873200.00	4350800.00	3612600.00	3337100.00	4039500.00	4485900.00	4069400.00	46804800.00
Fuel Consumed (BBLS)	13325.90	14509.29	8985.82	15564.67	15405.94	9824.38	13080.72	14693.68	12200.61	11270.18	13642.35	15149.95	13743.33	158070.92
Fuel Consumed (GALLONS)	559687.94	609390.07	377404.26	653716.31	647049.65	412624.11	549390.07	617134.75	512425.53	473347.52	572978.72	636297.87	577219.86	6638978.72
Heat Rate (BTU's/KWH)	11150.73	11112.84	11284.47	11201.75	11263.74	11346.30	11340.48	11483.53	11393.47	11698.52	11738.89	11554.06	11271.55	11390.80
Heat Rate (KWH/BBL)	519.77	521.54	513.61	517.40	514.55	510.81	511.07	504.71	508.70	495.43	493.73	501.63	514.20	508.95
Thermal Efficiency % (LHV)	32.58	32.69	32.19	32.43	32.25	32.02	32.04	31.64	31.89	31.05	30.95	31.44	32.23	31.90
Turbine Oil Added	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00
Turbine Oil Cnsmption Ounces/hour	0.00	5.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.57
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
End of Month HRSG Hrs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
Hours in Combined Cycle	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					0.00
Hours in Simple Cycle	432.90	459.20	293.00	482.80	477.30	313.10	412.40	486.40	405.80	399.30	478.70	502.00	424.50	5134.50
Availability %	100.00	99.40	79.32	100.00	99.03	99.46	95.83	97.85	94.62	93.89	98.12	100.00	80.65	94.85
Reliability %	100.00	100.00	98.96	100.00	100.00	100.00	100.00	99.87	100.00	100.00	100.00	100.00	100.00	99.90
		First Quarter	Availability Reliability	92.90 99.65	Second Quarter	Availability Reliability	98.11 100.00	Third Quarter	Availability Reliability	95.45 99.96	Fourth Quarter	Availability Reliability	92.92 100.00	

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
* M18 HRSG tie (2/17-2/22) *Switchyard work for M18 in August

M-14 2007 Monthly Availability / Reliability Report Serial Number 481-637 GE LM2500

Month	12/31/2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	118135.0	118864.00	119536.00	120203.00	120899.00	-	-	-	-	-	-	-	-	
Hours on Hot-Section	3027.00	3756.00	4352.00	743.00	6916.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6916.00
Hours on LPT	7195.00	7924.00	8520.00	743.00	1439.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1439.00
Hours on GG	3027.00	3756.00	4352.00	743.00	4095.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4095.00
Engine Hours For Month	739.00	729.00	672.00	667.00	696.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2764.00
Scheduled Maintenance Hours	5.00	15.00	0.00	18.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	5.00	15.00	0.00	18.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.00
Forced Outages	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	4.00
Attempted Starts	1094.00	1095.00	1095.00	1104.00	1107.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00
Successful Starts	1020.00	1021.00	1021.00	1028.00	1031.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00
Failures To Start	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Integrater Reading	44852.50	45209.70	45535.20	45857.00	46186.60	-	-	-	-	-	-	-	-	
Megawatt Hours Generated	12859.20	12859.20	11718.00	11584.80	11865.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48027.60
Fuel Totalizer (BBL)	4480177.6	4506375.60	4530145.60	4553693.10	4577936.60	-	-	-	-	-	-	-	-	
Fuel Consumed (BBL)	26361.50	26198.00	23770.00	23547.50	24243.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97759.00
Fuel Consumed (GALLONS)	1107183.00	1100316.00	998340.00	988995.00	1018227.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4105878.00
Heat Rate (BTU's/KWH)	11881.48	11722.77	11672.17	11695.86	11756.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11711.85
Heat Rate (KWH/BBL)	487.80	490.85	492.97	491.98	489.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	491.31
Thermal Efficiency % (LHV)	30.58	31.03	31.16	31.10	30.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.06
Turbine Oil Added	20.00	30.00	10.00	20.00	30.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	120.00
Turbine Oil Consmption Ounces/hour	3.46	5.27	1.90	3.84	5.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13
Generator Oil Added	40.00	55.00	15.00	55.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.00
Generator Oil Consmption	6.93	9.66	2.86	10.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69
End of Month HRSG Hrs.	71015.00	71743.00	72415.00	73001.00	73695.00	-	-	-	-	-	-	-	-	
Hours in Combined Cycle	738.00	728.00	672.00	586.00	694.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2680.00
Hours in Simple Cycle	1.00	1.00	0.00	81.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.00
Availability %	99.33	97.98	100.00	97.58	96.67									98.06
Reliability %	100.00	100.00	100.00	100.00	100.00									100.00

HHV (BTU/BBL)	5754082.00	First Quarter	Availability	98.52	Second Quarter	Availability	96.67	Third Quarter	Availability	0.00	Fourth Quarter	Availability	0.00
LHV (BTU/BBL)	5400845.00		Reliability	100.00		Reliability	100.00		Reliability	0.00		Reliability	0.00

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.

M-15 Monthly Availability / Reliability Report Serial Number 1 MG 26167 ABB PK2211

Month	12/31/2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	111774.00	112518.00	113190.00	113934.00	114654.00	-	-	-	-	-	-	-	-	
Hours since Overhaul	54676.00	55420.00	56092.00	56836.00	57556.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57556
Engine Hours For Month	744.00	744.00	672.00	744.00	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2880.00
Scheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forced Outages	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Attempts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Successful Starts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Total Starts	128.00	128.00	128.00	128.00	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128
Failures To Start	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrator Reading	34361.60	34642.30	34897.00	35174.40	35460.70	-	-	-	-	-	-	-	-	
Megawatt Hours Generated	8942.40	8084.16	7335.36	7989.12	8245.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31654.08
Combined Power	35031.60	31905.36	29601.36	32346.72	31825.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125678.88
Combined Fuel Usage	52890.00	46837.00	43397.00	47949.50	46676.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184859.75
Combined Heat Rate (BTU's/KWH)	8750.40	8446.98	8435.76	8529.62	8439.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8462.87
Combined Heat Rate (KWH/BBL)	662.35	681.20	682.11	674.60	681.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	679.93
Thermal Efficiency % (LHV)	41.52	43.06	43.12	42.64	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.98
Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Availability %	100.00	100.00	100.00	100.00	100.00									100.00
Reliability %	100.00	100.00	100.00	100.00	100.00									100.00

HHV (BTU/BBL)	5754082.00	1st Quarter	Availability	100.00	2nd Quarter	Availability	100.00	3rd Quarter	Availability	0.00	4th Quarter	Availability	0.00
LHV (BTU/BBL)	5400845.00		Reliability	100.00		Reliability	100.00		Reliability	0.00		Reliability	0.00
			Heatrate	8470.79		Heatrate	8439.13		Heatrate	0.00		Heatrate	0.00

COMMENTS: Thermal Efficiency is based on Lower Heating Value, everything else is Higher Heating value.

M-16 Monthly Availability / Reliability Report Serial Number 481-669 GE LM2500

Month	12/31/2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	112711.00	113367.00	113988.00	114732.00	115452.00	-	-	-	-	-	-	-	-	
Hours Since Hot-Section	24310.00	611.00	1232.00	1976.00	2696.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2696
Hours on LPT	56455.00	6219.00	6840.00	7584.00	8304.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8304
Hours on GG	56455.00	8212.00	8833.00	9577.00	10297.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10297
Engine Hours For Month	744.00	656.00	621.00	744.00	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2741.00
Scheduled Maintenance Hours	0.00	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	0.00	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00
Forced Outages	0	1	0	0	0	0	0	0	0	0	0	0	0	1.00
Duration Of Forced Outages	0	24	0	0	0	0	0	0	0	0	0	0	0	24.00
Attempted Starts	781	795	801	801	801	0	0	0	0	0	0	0	0	20
Successful Starts	690	703	707	707	707	0	0	0	0	0	0	0	0	17
Failures To Start	0	1	2	0	0	0	0	0	0	0	0	0	0	3
Integrater Reading	41780.00	42084.50	42377.50	42732.30	43057.70	-	-	-	-	-	-	-	-	
Megawatt Hours Generated	13230.00	10962.00	10548.00	12772.80	11714.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45997.20
Fuel Totalizer (BBL)	2540172.00	2560811.00	2580438.00	2604840.00	2627272.75	-	-	-	-	-	-	-	-	
Fuel Consumed (BBL)	26528.50	20639.00	19627.00	24402.00	22432.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87100.75
Fuel Consumed (GALLONS)	1114197.00	866838.00	824334.00	1024884.00	942175.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3658231.50
Heat Rate (BTU's/KWH)	11621.63	10833.65	10706.80	10992.98	11018.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Heat Rate (KWH/BBL)	498.71	531.13	537.42	523.43	522.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	528.55
Thermal Efficiency % (LHV)	31.26	33.58	33.97	33.09	33.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.41
Turbine Oil Added	25.00	35.00	17.00	15.00	20.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.00
Turbine Oil Cnsmption Ounces/hou	4.30	6.83	3.50	2.58	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
End of Month HRSG Hrs.	71488.00	72128.00	72696.00	73440.00	74160.00	-	-	-	-	-	-	-	-	
Hours in Combined Cycle	744.00	640.00	568.00	744.00	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2672.00
Hours in Simple Cycle	0.00	16.00	53.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.00
Availability %	100.00	88.17	100.00	100.00	100.00									97.64
Reliability %	100.00	99.98	100.00	100.00	100.00									99.99

HRV (BTU/BBL)	5754082.00	First Quarter	Availability	96.06	Second Quarter	Availability	100.00	Third Quarter	Availability	0.00	Fourth Quarter	Availability	0.00
LHV (BTU/BB	5400845.00		Reliability	99.99		Reliability	100.00		Reliability	0.00		Reliability	0.00

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
Installed spare engine 1/5/07, 50,000 OH

M-17 Monthly Availability / Reliability Report Serial Number 481-718 GE LM2500

Month	12/31/2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	28832.90	29535.00	30164.50	30890.60	31546.90	-	-	-	-	-	-	-	-	
Hours Since Hot-Section	11518.90	12221.00	12850.50	13576.60	14232.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14232.90
Hours on LPT	28832.90	29535.00	30164.50	30890.60	31546.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31546.90
Hours on GG	28832.90	29535.00	30164.50	30890.60	31546.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31546.90
Engine Hours For Month	667.50	702.10	629.50	726.10	656.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2714.00
Scheduled Maintenance Hours	10.50	0.00	0.00	2.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	10.50	0.00	0.00	2.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00
Forced Outages	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attempted Starts	2507.00	2512.00	2517.00	2520.00	2526.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19
Successful Starts	2472.00	2477.00	2482.00	2485.00	2491.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19
Failures To Start	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrater Reading	12719.50	13075.90	13376.50	13741.30	14065.40	-	-	-	-	-	-	-	-	
Megawatt Hours Generated	11779.20	12830.40	10821.60	13132.80	11667.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48452.40
Fuel Totalizer (LBS)	276317300.00	283552900.00	289762800.00	297326800.00	304105800.00	-	-	-	-	-	-	-	-	
Fuel Consumed (LBS)	6702200.00	7235600.00	6209900.00	7564000.00	6779000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27788500.00
Fuel Consumed (BBLS)	22634.92	24436.34	20972.31	25545.42	22894.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93848.36
Fuel Consumed (GALLONS)	950666.67	1026326.24	880836.88	1072907.80	961560.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3941631.21
Heat Rate (BTU's/KWH)	11137.24	10959.03	11151.44	11192.62	11290.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11148.45
Heat Rate (KWH/BBL)	520.40	525.05	515.99	514.10	509.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	516.19
Thermal Efficiency % (LHV)	32.62	33.19	32.62	32.50	32.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.63
Turbine Oil Added	485.00	0.00	30.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.00
Turbine Oil Cnsmption Ounces/hour	93.00	0.00	6.10	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.49
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
End of Month HRSG Hrs.	0.00	37.10	657.10	1378.30	2023.60	-	-	-	-	-	-	-	-	
Hours in Combined Cycle	0.00	37.10	620.00	721.20	645.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2023.60
Hours in Simple Cycle	667.50	665.00	9.50	4.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	690.40
Availability %	98.59	100.00	100.00	99.73	98.47									99.55
Reliability %	100.00	100.00	100.00	100.00	100.00									100.00

HHV (BTU/BBL)	5754082.00	First Quarter	Availability	99.91	Second Quarter	Availability	98.47	Third Quarter	Availability	0.00	Fourth Quarter	Availability	0.00
LHV (BTU/BBL)	5400845.00		Reliability	100.00		Reliability	100.00		Reliability	0.00		Reliability	0.00

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.

M-18 *Monthly Availability / Reliability Report* *Mitsubishi*

Month	12/31/2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744.00	744.00	672.00	744.00	720.00	744.00	720.00	744.00	744.00	720.00	744.00	720.00	744.00	8760.00
End of Month Engine Hours	1164.60	1871.90	2542.8	3286.80	4006.80	-	-	-	-	-	-	-	-	
Hours since Overhaul	1164.60	1871.90	2542.80	3286.80	4006.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4006.80
Engine Hours For Month	724.40	707.30	670.90	744.00	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2842.20
Scheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Attempts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Successful Starts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Starts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Failures To Start	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Integrator Reading	233.60	413.30	585.80	799.40	954.40	-	-	-	-	-	-	-	-	
Megawatt Hours Generated	5029.20	6469.20	6210.00	7689.60	5580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25948.80
Combined Power	24375.60	29037.60	26769.60	30560.40	26985.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113353.20
Combined Fuel Usage	37144.21	43202.97	39738.94	44312.06	41660.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168914.89
Combined Heat Rate (BTU's/KWH)	8831.82	8561.09	8541.82	8343.32	8883.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8582.37
Combined Heat Rate (KWH/BBL)	656.24	672.12	673.64	689.66	647.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	670.79
Thermal Efficiency % (LHV)	41.13	42.49	42.58	43.60	40.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.40
Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#DIV/0!
Availability %	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Reliability %	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00

HHV (BTU/BBL) 5754082.00
LHV (BTU/BBL) 5400845.00

1st Quarter	Availability	100.00	2nd Quarter	Availability	100.00	3rd Quarter	Availability	0.00	4th Quarter	Availability	0.00
	Reliability	100.00		Reliability	100.00		Reliability	0.00		Reliability	0.00
	Heatrate	8482.08		Heatrate	8883.27		Heatrate	0.00		Heatrate	0.00

COMMENTS:

M-19 Monthly Availability / Reliability Report Serial Number 481-759 GE LM2500

Month	12/31/2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Period Hours For Month	744	744	672	744	720	744	720	744	744	720	744	720	744	8760
End of Month Engine Hours	28444.20	29014.10	29505.70	30060.70	30435.90	-	-	-	-	-	-	-	-	
Hours Since Hot-Section	18225.20	18795.10	19286.70	19841.70	20131.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20131.90
Hours on LPT	28444.20	29014.10	29505.70	30060.70	30435.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30435.90
Hours on GG	28444.20	29014.10	29505.70	30060.70	30435.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30435.90
Engine Hours For Month	424.50	569.90	491.60	555.00	375.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1991.70
Scheduled Maintenance Hours	144.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
Unscheduled Maintenance Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Maintenance Hours	144.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
Forced Outages	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Duration Of Forced Outages	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attempted Starts	2327.00	2355.00	2385.00	2411.00	2439.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112
Successful Starts	2276.00	2304.00	2333.00	2359.00	2385.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109
Failures To Start	11	0	1	0	2	0	0	0	0	0	0	0	0	3.00
Integrater Reading	12734.40	13004.90	13234.80	13503.50	13675.70	-	-	-	-	-	-	-	-	
Megawatt Hours Generated	7066.80	9738.00	8276.40	9673.20	6199.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33886.80
Fuel Totalizer (LBS)	260574500.00	266131300.00	270875000.00	276374400.00	279942400.00	-	-	-	-	-	-	-	-	
Fuel Consumed (LBS)	4069400.00	5556800.00	4743700.00	5499400.00	3568000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19367900.00
Fuel Consumed (BBLS)	13743.33	18766.63	16020.60	18572.78	12049.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65410.00
Fuel Consumed (GALLONS)	577219.86	788198.58	672865.25	780056.74	506099.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2747219.86
Heat Rate (BTU's/KWH)	11271.55	11089.01	11138.16	11047.98	11184.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11114.98
Heat Rate (KWH/BBL)	514.20	518.90	516.61	520.83	514.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	517.70
Thermal Efficiency % (LHV)	32.23	32.80	32.66	32.92	32.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.73
Turbine Oil Added	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00
Turbine Oil Cnsmption Ounces/hour	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.61
Generator Oil Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Oil Cnsmption	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
End of Month HRSG Hrs.	0.00	23.40	465.00	978.60	1319.50	-	-	-	-	-	-	-	-	
Hours in Combined Cycle	0.00	23.40	441.60	513.60	340.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1319.50
Hours in Simple Cycle	424.50	546.50	50.00	41.40	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	672.20
Availability %	880.65	100.00	100.00	100.00	98.61									99.65
Reliability %	100.00	100.00	100.00	100.00	100.00									100.00

HHV (BTU/BBL)	5754082.00	First Quarter	Availability	100.00	Second Quarter	Availability	98.61	Third Quarter	Availability	0.00	Fourth Quarter	Availability	0.00
LHV (BTU/BBL)	5400845.00		Reliability	100.00		Reliability	100.00		Reliability	0.00		Reliability	0.00

COMMENTS: Efficiencies are based on Lower Heating Value. Heating value is determined from monthly fuel sample analysis.
* M18 HRSG tie (2/17-2/22) *Switchyard work for M18 in August

CA-IR-79

Ref: MECO T-5, page 3, lines 14-22 – Changes in Generating Capacity.
In testimony, Mr. Ribao references changes in MECO generating capacity from commercial operation of M17, M19 and M18. Please provide the following information on a comparable basis for each of these units:

a. Describe the performance and acceptance testing that was performed and explain each of the specific criteria that were satisfied before the unit was declared commercially operable by MECO.

b. State the date that AFUDC was discontinued.

c. Provide total annual operating hours in each year for each unit since commercial operation commenced (provide monthly data for M18 to date).

d. Provide copies of correspondence to contractor(s) describing each of the performance issues that were encountered during acceptance testing for the unit.

e. Describe the applicable warrantee coverage(s) and explain the required inspection intervals associated with warrantee provisions, if any.

MECO Response:

a. MECO performed startup testing on various pieces of equipment prior to commercial operation of unit M18. These tests included, electrical, mechanical, instrumentation and quality control testing necessary to ensure the successful startup of unit M18 and to be able to produce power to the MECO grid. The forms used for accepting the various pieces of equipment on M18 are too voluminous (nine 3-inch binders) to include in this response but can be made available for review at the MECO Power Supply Office at the Maalaea Power Plant. Likewise the forms for accepting combustion turbine units M17 and M19 are also too voluminous (eight 3-inch binders) and can be made available for review at the MECO Power Supply Office at the Maalaea Power Plant. MECO accepted the equipment upon "commercial operation", which was when it was able to provide energy to the Maui grid. MECO did not encounter any performance issues upon

commercial operation. A capability test has been schedule in late July 2007. This test will be considered an acceptance test of the dual-train combined cycle mode. MECO will be evaluating the performance of the various major components of the system to ensure compliance with guaranteed equipment performance in dual-train combined cycle mode at full load. If MECO finds that the expected capability is not achieved MECO will do further tests on major pieces of equipment to see where there is a deficiency. MECO will then either require the manufacturer of that piece of equipment to correct the deficiency or invoke the penalty clause for not meeting their guaranteed specifications. No vendor would guarantee overall performance as they would only guarantee their own equipment. MECO will also be doing a separate heat rate test in July 2007 in the dual-train combined cycle mode to obtain information for forecasting and simulation modeling. The heat rate test does not have any connection to acceptance of the equipment.

b. AFUDC is discontinued when a unit is declared in commercial operation. Commercial operation is defined by MECO to be when energy is first delivered to the Maui grid. The date AFUDC was discontinued on unit M18 was October 27, 2006. For unit M17 the commercial operation date and date AFUDC was discontinued was December 30, 1998. Unit M19's commercial operation date and date AFUDC was discontinued was September 1, 2000.

c. Please see table below for annual operating hours of these units since their commercial operation dates.

ANNUAL OPERATING HOURS

	M17	M19	M18
1998	0		
1999	3,753		
2000	3,969	1,527	
2001	3,549	4,648	
2002	2,248	2,565	
2003	2,404	4,565	
2004	3,536	5,024	
2005	3,989	5,140	
2006	5,035	5,135	1,165
2007	2,714	1,992	2,842

Monthly Operating Hours for M18

M18 MONTHLY OPERATING HOURS

2006	**HRS**
OCT	18
NOV	422
DEC	725

2007	**HRS**
JAN	707
FEB	671
MAR	744
APR	720

d. There were no performance issues on unit M18 encountered in accepting the unit for commercial operation. There were no performance issues encountered on the combustion turbine generators M17 and M19 with accepting these units for commercial operation.

e. The warranty for unit M18 steam generator package is attached as CA-IR-79 Attachment 1. Periodic inspections are required for the steam turbine generator package

supplied by Mitsubishi Power Systems to maintain its initial warranty. The maintenance intervals for the M18 steam turbine is attached as CA-IR-79 Attachment 2. There were no maintenance requirements to maintain the initial warranty on the combustion turbine generators units M17 and M19.

CA-IR-80

Ref: MECO T-5, page 6 – As Available Purchased Power

Please provide the monthly amount of energy purchased by MECO from KWP and from Makila since these facilities commenced operation.

MECO Response:

The monthly amount of energy purchased by MECO from KWP and Makila since these facilities commenced operation is as indicated in the following table. In October 2006 Makila experienced equipment problems requiring some equipment to be sent to the mainland to be repaired. Based on the information Makila has provided, MECO expects them back on line sometime in the 3rd quarter 2007.

Month	KWP (KWHRs)	Makila (KWHRs)
Jun 06	6,440,849	N/A
Jul 06	12,402,765	N/A
Aug 06	11,356,214	N/A
Sep 06	8,961,457	14,012
Oct 06	4,275,616	29,850
Nov 06	4,827,118	0
Dec 06	8,366,723	0
Jan 07	7,032,004	0
Feb 07	6,903,369	0
Mar 07	6,103,956	0
Apr 07	10,488,067	0

CA-IR-81

Ref: MECO-WP-505 – Overhaul Normalization Calculations.

Please provide complete copies of reports, analyses, quotations, maintenance directives and other documents reviewed and/or relied upon by MECO to develop the Maintenance Frequency/Overhaul Interval values and the Historical Overhaul Cost input values for each unit, to the extent not previously provided in response to Consumer Advocate information requests. If this information is presented within the Company's CA-IR-1 or CA-IR-2 responses, please provide pinpoint citations into the support for each of the values used for each unit outage.

MECO Response:

The frequency and overhaul interval values were developed from the normalized running hours per unit based on simulation runs done in MECO 404 and recommended overhaul intervals from the engine manufacturer. The normalized engine running hours for 2007 is provided in Attachment 1. The manufacturer's maintenance schedules and overhaul intervals are provided in Attachment 2.

As mentioned in some of the maintenance schedules the maintenance frequencies may change depending on how the units operate and site conditions.

Overhaul costs were derived from recorded historical non-labor overhaul costs. The basis of these overhaul costs are provided in Attachment 3. Expenses within the boxes were used to normalize overhaul costs.

Maui Electric Company, Limited

TEST YEAR 2007 PRODUCTION SIMULATION
SUMMARY (UNADJUSTED)
Direct Testimony

(Maui Division)

Location	Unit No.	Hours Run	Net MWHs	Fuel Consumption BBL	Fuel Consumption MBTU
		PMONTH	*PMONTH*		*PMONTH*
Kahului	1	4,576	17,043	45,143	284,400
	2	4,698	20,159	52,921	333,400
	3	8,076	87,886	183,079	1,153,400
	4	8,076	93,600	209,794	1,321,700
	Total	25,426	218,688	490,937	3,092,900
Maalaea	X1	1	3	0	0
	X2	1	2	0	0
	1	2	6	17	100
	2	4	11	17	100
	3	8	21	34	200
	sub total	17	43	68	400
	4	132	464	802	4,700
	5	20	69	119	700
	6	465	1,626	2,833	16,600
	7	50	175	307	1,800
	sub total	667	2,334	4,061	23,800
	8	912	3181	5,273	30,900
	9	1,479	5163	8,567	50,200
	sub total	2,391	8,344	13,840	81,100
	10	3,103	26,105	40,324	236,300
	11	4,437	37,221	57,509	337,000
	12	4,490	37,645	58,157	340,800
	13	6,095	50,845	78,618	460,700
	sub total	18,125	151,816	234,608	1,374,800
	M14&15	8,225	197,723	290,512	1,702,400
	M15&16	8,177	189,056	278,925	1,634,500
	M17&18	8,579	219,021	320,137	1,876,000
	M18&19	7,032	90,194	139,352	816,600
	sub total	32,013	695,994	1,028,925	6,029,500
	Total	53,212	858,531	1,281,502	7,509,600
Hana	*H1*	*40*	*40*	*75*	*442*
	H2	40	40	75	442
	Total	80	80	151	885
IPP					
HC&S			90,427		
KWP			122,912		
Makila Hydro			875		
	Total		214,214		
IPP Total			214,214		
MECO Total		78,718	1,077,299	1,772,589	10,603,385
SYSTEM TOTAL		78,718	1,291,513		

Attachment 2 is voluminous and available for inspection at HECO's Regulatory Affairs Division office, Suite 1301, Central Pacific Plaza, 220 South King Street, Honolulu, Hawaii. Please contact Dean Matsuura at 543-4622 to make arrangements to inspect the requested information. An electronic version the requested information is being provided on a compact disc.

KAHULUI POWER PLANT
STEAM TURBINE OVERHAULS
NONLABOR EXPENSES
513 MAINTENANCE ELECTRIC PLANT

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
K1	513	MGB	260	N01	501	85,658	-	-	-	-	-	60,000
	513	MGE	260	N01	501	-	-	-	-	-	-	-
	513	MGE	260	N01	201	5,355	1,916	1,442	3,982	4,246	3,000	3,000
	513	MGE	262	N01	501	45,196	-	3,010	-	-	-	-
K2	513	MGB	260	N02	501	-	-	-	61,419	-	-	-
	513	MGE	260	N02	501	-	-	-	61,068	-	-	-
	513	MGE	260	N02	201	4,469	1,437	3,774	1,755	904	-	3,000
	513	MGE	262	N02	501	-	-	-	2,070	-	-	-
K3	513	MGB	260	N03	501	-	-	-	-	67,876	-	-
	513	MGE	260	N03	501	1,877	-	-	-	-	-	-
	513	MGE	260	N03	201	4,664	840	2,987	3,065	8,490	4,000	4,000
	513	MGE	262	N03	501	-	-	-	-	3,328	6,096	-
K4	513	MGB	260	N04	501	-	-	-	-	55,829	-	-
	513	MGE	260	N04	501	3,646	-	-	-	11,771	-	-
	513	MGE	260	N04	201	8,003	3,854	1,280	792	4,516	2,678	4,000
	513	MGE	262	N04	501	650	-	-	3,372	13,601	900	5,000

MAALAEA POWER PLANT
STEAM TURBINE OVERHAULS
NONLABOR EXPENSES
513 MAINTENANCE ELECTRIC PLANT

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
M15	513	MGC	260	M15	501	-	-	-	-	-	54,660	-
	513	MGD	260	M15	501	114,533	-	-	-	-	-	-
	513	MGE	260	M15	501	-	-	-	-	-	24,838	-
	513	MGC	262	M15	501	-	-	19,583	-	-	-	2,798
	513	MGD	262	M15	501	9,718	-	-	-	-	-	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
EMD												
X-1	553	MGD	275	MX1	201	-	49	-	94,713	894	-	-
	553	MGD	275	MX1	501	-	-	79,100	(21,544)	-	-	-
	553	MGE	275	MX1	501	-	-	-	6,099	-	-	-
	553	MGD	277	MX1	201	21,839	6,015	13,860	2,258	1,070	535	-
	553	MGE	277	MX1	501	-	6,240	-	-	8,097	-	-
X-2	553	MGD	275	MX2	201	382	1,533	1,248	101,100	1,784	1,469	-
	553	MGE	275	MX2	201	-	-	-	2,968	-	-	-
	553	MGD	275	MX2	501	-	-	79,100	(16,329)	-	-	-
	553	MGD	277	MX2	201	657	5,131	1,517	23,904	34,736	434	-
	553	MGE	277	MX2	201	330	757	3,272	2,471	701	1,201	2,433
	553	MGE	277	MX2	501	-	-	516	3,946	7,242	-	-
M-1	553	MGD	275	M01	201	55	540	-	119,125	14,899	53	-
	553	MGE	275	M01	201	(69)	3,132	3,188	1,781	-	-	-
	553	MGD	275	M01	501	(467)	-	-	-	-	-	-
	553	MGD	277	M01	201	969	3,666	194	9,039	16,684	568	-
	553	MGE	277	M01	201	2,960	(14,987)	3,264	8,694	9,521	2,028	2,433
	553	MGD	277	M01	501	-	-	-	-	-	-	474
	553	MGE	277	M01	501	-	-	-	-	7,299	6,000	8,283
M-2	553	MGE	275	M02	201	705	-	-	4,119	-	-	-
	553	MGD	275	M02	201	165	46	1,272	111,686	14	2,592	1,727
	553	MGD	275	M02	501	331	-	-	-	-	-	-
	553	MGE	277	M02	201	51	6,016	8,091	2,794	917	1,254	2,433
	553	MGD	277	M02	201	6,817	15,367	453	1,648	466	359	-
	553	MGE	277	M02	501	-	-	-	19,083	9,193	-	-
M-3	553	MGD	275	M03	201	-	133,345	-	-	14	-	166,992
	553	MGE	275	M03	201	-	-	-	-	-	-	4,000
	553	MGD	275	M03	501	798	1,966	-	-	-	-	-
	553	MGD	277	M03	201	1,518	119	1,263	21,496	58,603	1,307	57,711
	553	MGE	277	M03	201	97	4,320	3,016	8,090	12,612	(7,147)	2,433
	553	MGD	277	M03	501	-	-	-	-	-	-	-
	553	MGE	277	M03	501	-	312	-	-	-	-	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
COOPER-BESSEMER												
M-4	553	MGD	275	M04	201	10,094	242,560	13,631	8,814	781	(10)	186,690
	553	MGE	275	M04	201	-	10,596	-	-	-	-	8,000
	553	MGD	275	M04	501	-	124,517	-	-	-	23,279	10,000
	553	MGE	275	M04	501	448	2,080	-	-	-	-	-
	553	MGD	277	M04	201	13,899	6,393	23,441	31,976	81,300	30,777	-
	553	MGE	277	M04	201	103	3,098	(2,546)	1,792	42,588	1,680	3,401
	553	MGD	277	M04	501	-	107,885	-	-	23,893	153,720	53,496
	553	MGE	277	M04	501	-	-	7,011	-	-	6,000	1,036
M-5	553	MGD	275	M05	201	(6,811)	(1,742)	282	(3,591)	-	4,193	201,819
	553	MGD	275	M05	501	249,341	4,878	4,878	11,544	-	-	112,650
	553	MGD	277	M05	201	(1,140)	5,474	65,407	1,765	20,513	12,968	-
	553	MGD	277	M05	501	-	-	11,488	-	10,169	3,392	-
M-6	553	MGD	275	M06	201	1,817	171,502	81,173	812	11,295	-	186,690
	553	MGE	275	M06	201	-	887	4,423	-	-	-	8,000
	553	MGD	275	M06	501	798	26,500	99,441	36,956	20,661	-	-
	553	MGD	277	M06	201	6,753	82,980	9,736	27,678	19,994	19,502	84,051
	553	MGE	277	M06	201	3,457	15,844	3,742	904	459	1,917	3,401
	553	MGD	277	M06	501	-	12,034	9,955	-	-	2,527	-
M-7	553	MGD	275	M07	201	274,907	48,270	175	8,154	1,493	-	-
	553	MGE	275	M07	201	857	4,916	-	-	-	-	-
	553	MGD	275	M07	501	-	60,286	-	-	-	-	-
	553	MGD	277	M07	201	44,049	84,693	(22,548)	15,982	8,782	86	-
	553	MGE	277	M07	201	(1,636)	1,184	6,659	677	139	2,149	3,401
	553	MGD	277	M07	501	27,131	114,150	8,830	5,658	-	2,371	-
COLT-PIELSTICK												
M-8	553	MGD	275	M08	201	49,323	(2,937)	128	2,784	2,510	-	149,390
	553	MGE	275	M08	201	599	-	-	-	-	-	8,000
	553	MGD	275	M08	501	215,413	431	-	1,388	-	-	60,885
	553	MGE	275	M08	501	-	-	-	-	-	-	-
	553	MGD	277	M08	201	25,872	164,843	(26,498)	11,697	18,848	17,633	-
	553	MGE	277	M08	201	426	603	6,545	1,112	7,217	1,918	2,977
	553	MGD	277	M08	501	-	18,544	24,004	1,857	3,087	-	25,084
	553	MGE	277	M08	501	232	-	-	-	-	6,000	1,983
M-9	553	MGD	275	M09	201	4,549	1,381	15,517	1,507	(10,295)	148,804	3,622
	553	MGE	275	M09	201	-	-	-	-	-	8,160	-
	553	MGD	275	M09	501	671	-	35,048	1,106	-	20,400	25,376
	553	MGE	275	M09	501	-	-	-	-	-	-	-
	553	MGD	277	M09	201	(2,027)	42,069	(14,970)	7,619	16,406	13,734	58,417
	553	MGE	277	M09	201	(9,176)	2,954	295	77	-	1,718	2,977
	553	MGD	277	M09	501	-	-	-	272	25,195	7,092	-
	553	MGE	277	M09	501	7,839	-	-	-	-	-	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
MITSUBISHI-MAN							(TOP)		(MAJOR)		(TOP)	
M-10	553	MGD	275	M10	201	387,676	507,465	(188,882)	812,379	23,946	359,586	26,185
	553	MGE	275	M10	201	10,666	12,703	6,240	11,550	1,099	12,000	-
	553	MGD	275	M10	501	74,458	98,844	(24,685)	16,783	74,087	120,255	-
	553	MGE	275	M10	501	10	1,087	-	-	73	-	-
	553	MGD	277	M10	201	83,507	12,903	193,662	49,396	19,901	27,446	-
	553	MGE	277	M10	201	2,214	5,314	4,973	9,445	1,089	9,781	2,708
	553	MGD	277	M10	501	5,204	20	7,885	1,312	-	-	40,619
	553	MGE	277	M10	501	-	-	5,051	-	-	6,000	6,945
							(MAJOR)		(TOP)		(MAJOR)	
M-11	553	MGD	275	M11	201	19,192	497,017	130,201	308,469	-	533,635	17,965
	553	MGE	275	M11	201	83	8,965	-	21,520	(444)	17,389	-
	553	MGD	275	M11	501	31,107	40,146	-	73,816	-	206,513	-
	553	MGE	275	M11	501	-	86,870	-	-	-	-	-
	553	MGD	277	M11	201	33,917	39,218	60,192	175,698	78,785	15,765	-
	553	MGE	277	M11	201	12,551	9,529	(2,293)	484	11,080	4,945	2,708
	553	MGD	277	M11	501	549	-	-	1,498	14,076	4,670	-
	553	MGE	277	M11	501	-	8,840	-	-	-	-	-
						(MAJOR)		(TOP)		(MAJOR)		
M-12	553	MGD	275	M12	201	314,893	112,789	279,331	12,479	492,874	45,758	451,458
	553	MGE	275	M12	201	5,884	-	5,729	-	7,833	-	12,000
	553	MGD	275	M12	501	99,687	50,166	70,649	-	98,963	27,190	123,350
	553	MGD	277	M12	201	1,938	7,688	86,140	14,671	36,965	42,720	176,493
	553	MGE	277	M12	201	(4,154)	1,142	1,445	1,402	1,062	6,864	2,708
	553	MGD	277	M12	501	14,478	-	10,312	-	61,222	101,796	-
	553	MGE	277	M12	501	-	-	6,194	-	-	-	-
						(TOP)		(MAJOR)		(TOP)		
M-13	553	MGD	275	M13	201	308,228	24,043	404,713	54,431	346,446	1,186	300,000
	553	MGE	275	M13	201	9,172	-	11,692	-	16,436	-	-
	553	MGD	275	M13	501	20,520	63,583	187,004	3,572	84,123	1,834	-
	553	MGD	277	M13	201	15,080	19,266	7,372	26,318	40,536	14,101	-
	553	MGE	277	M13	201	1,541	2,691	1,228	7,547	2,355	5,018	2,708
	553	MGD	277	M13	501	14,135	-	8,657	80,668	29,290	234,489	-
	553	MGE	277	M13	501	-	1,096	-	19,091	-	19,400	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	2001	2002	RECORDED 2003	2004	2005	UPDATED 2006	BUDGET 2007
G.E. LM2500 - COMBUSTION TURBINE												
M-14	553	MGC	272	M14	201	-	-	35,582	20,065	45,671	72,945	45,099
	553	MGD	272	M14	201	844,039	16,863	630	-	-	-	-
	553	MGE	272	M14	201	33,978	-	1,754	1,742	-	-	-
	553	MGC	272	M14	501	-	-	779,395	56	1,918,639	1,469	161,615
	553	MGD	272	M14	501	358,245	2,421	-	-	-	-	-
	553	MGE	272	M14	501	30,042	10,952	8,275	13,542	11,971	6,446	10,704
	553	MGC	274	M14	201	-	-	881	846	3,869	28,864	1,724
	553	MGD	274	M14	201	11,687	15,631	(1,875)	-	-	-	-
	553	MGE	274	M14	201	-	2,834	4,402	1,961	4,071	5,506	5,227
	553	MGC	274	M14	501	-	-	8,125	-	19,700	12,310	9,275
	553	MGD	274	M14	501	12,628	-	803	(803)	-	-	-
	553	MGE	274	M14	501	-	-	-	-	1,222	-	-
M-16	553	MGC	272	M16	201	-	-	28,200	27,426	42,987	39,930	45,290
	553	MGD	272	M16	201	344,018	25,750	811	-	-	-	-
	553	MGE	272	M16	201	-	-	4,054	-	-	2,000	2,000
	553	MGC	272	M16	501	-	-	-	824,302	-	295	2,532,060
	553	MGD	272	M16	501	86,503	891,175	-	-	-	-	-
	553	MGE	272	M16	501	10,490	10,952	101,126	13,542	11,971	6,446	10,704
	553	MGC	274	M16	201	-	-	20,563	2,832	2,171	4,092	7,852
	553	MGD	274	M16	201	45,236	17,987	4,772	1,738	(490)	-	-
	553	MGE	274	M16	201	101	26	3,910	120	18,258	4,609	5,227
	553	MGC	274	M16	501	-	-	604	13,091	817	-	4,837
	553	MGD	274	M16	501	41,142	-	1,423	-	-	-	-
	553	MGE	274	M16	501	-	-	-	12,207	-	-	-
M-17	553	MGC	272	M17	201	-	-	3,482	8,303	2,368	8,049	6,033
	553	MGD	272	M17	201	81	2,590	-	-	-	-	-
	553	MGE	272	M17	201	344	-	-	13,829	-	2,121	5,000
	553	MGC	272	M17	501	-	-	-	545,007	-	-	853,230
	553	MGD	272	M17	501	1,628	-	-	-	-	-	-
	553	MGE	272	M17	501	10,490	10,951	8,275	13,542	11,971	6,446	10,704
	553	MGC	274	M17	201	-	-	1,026	5,440	4,506	10,759	3,396
	553	MGD	274	M17	201	9,569	8,376	306	-	-	-	-
	553	MGE	274	M17	201	1,269	19,281	14,237	5,345	30,180	6,532	5,227
	553	MGC	274	M17	501	-	-	2,208	5,497	13,683	-	7,130
	553	MGD	274	M17	501	6,769	-	-	-	-	-	-
	553	MGE	274	M17	501	-	-	-	3,947	2,467	-	-
M-19	553	MGC	272	M19	201	-	-	5,723	4,973	5,968	8,535	7,353
	553	MGD	272	M19	201	237	2,668	-	-	-	-	-
	553	MGE	272	M19	201	-	-	-	-	-	28	5,000
	553	MGC	272	M19	501	-	-	780,000	-	-	862,160	853,230
	553	MGE	272	M19	501	10,490	10,951	8,275	13,542	11,971	6,446	10,704
	553	MGC	274	M19	201	-	-	6,403	17,507	5,006	10,792	8,971
	553	MGD	274	M19	201	1,809	4,999	-	-	-	-	-
	553	MGE	274	M19	201	(729)	6,282	20,079	12,014	10,197	2,505	5,227
	553	MGC	274	M19	501	-	-	-	11,934	46,384	13,279	19,439
	553	MGD	274	M19	501	5,683	-	-	-	-	-	-
	553	MGE	274	M19	501	95	2,080	611	3,739	5,118	6,000	18,986

LANAI POWER PLANT
MIKI BASIN OVERHAULS
NONLABOR OVERHAUL EXPENSES
553L MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
EMD												
LL1	553L	MGL	275	L01	201	-	-	-	-	-	375	32
	553L	MGL	275	L01	501	-	-	-	-	-	-	-
	553L	MGL	277	L01	201	3,475	1,034	-	166	1,820	1,089	1,306
	553L	MGL	277	L01	501	-	-	-	-	-	500	103
LL2	553L	MGL	275	L02	201	-	-	-	-	-	375	32
	553L	MGL	275	L02	501	-	-	-	1,047	-	-	-
	553L	MGL	277	L02	201	4,728	1,917	-	166	501	831	1,306
	553L	MGL	277	L02	501	-	84	-	-	-	500	103
LL3	553L	MGL	275	L03	201	-	-	-	-	-	375	32
	553L	MGL	275	L03	501	100	-	-	-	-	-	-
	553L	MGL	277	L03	201	971	-	1,316	-	1,555	1,967	1,306
	553L	MGE	277	L03	501	-	14	-	-	-	-	-
	553L	MGL	277	L03	501	-	-	-	-	-	500	103
LL4	553L	MGL	275	L04	201	-	-	-	-	-	375	32
	553L	MGL	275	L04	501	-	-	-	-	1,560	-	-
	553L	MGL	277	L04	201	1,223	32	-	1,116	646	4,751	1,306
	553L	MGD	277	L04	501	-	-	-	-	82	-	-
	553L	MGE	277	L04	501	-	14	-	-	-	-	-
	553L	MGL	277	L04	501	333	-	-	859	-	500	103
LL5	553L	MGE	275	L05	201	-	-	-	-	-	-	-
	553L	MGL	275	L05	201	-	-	-	-	-	375	32
	553L	MGL	275	L05	501	-	-	-	-	-	-	-
	553L	MGE	277	L05	201	-	-	-	3	-	-	-
	553L	MGL	277	L05	201	7,164	-	-	4,151	402	628	1,306
	553L	MGL	277	L05	501	1,350	861	-	-	-	500	103
LL6	553L	MGL	275	L06	201	-	-	-	-	-	375	32
	553L	MGL	275	L06	501	-	-	-	-	-	-	-
	553L	MGL	277	L06	201	18,986	-	-	-	2,392	1,305	1,306
	553L	MGL	277	L06	501	208	-	-	-	-	500	103
CATERPILLAR						**(MAJOR)**		**(TOP)**			**(MAJOR)**	
LL7	553L	MGL	275	L07	201	214,244	4,279	91,042	3,890	2,451	172,921	4,110
	553L	MGL	275	L07	501	10,704	-	55,744	214	-	132,033	-
	553L	MGL	277	L07	201	8,570	17,515	2,291	2,326	27,827	9,574	9,350
	553L	MGL	277	L07	501	-	2,774	4,273	171	9,479	2,000	2,784
						(MAJOR)			**(TOP)**		**(MAJOR)**	
LL8	553L	MGL	275	L08	201	194,437	4,538	4,959	103,035	2,451	18,609	3,997
	553L	MGL	275	L08	501	11,157	-	-	62,794	-	218,530	-
	553L	MGL	277	L08	201	10,613	9,318	4,712	1,544	18,278	2,525	7,338
	553L	MGL	277	L08	501	2,371	4,550	13,523	223	4,535	337,813	6,030

MOLOKAI POWER PLANT
PALAAU OVERHAULS
NONLABOR OVERHAUL EXPENSES
553M MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
CATERPILLAR												
CAT1	553M	MGT	275	G01	201	-	-	-	-	-	108	36
	553M	MGT	277	G01	201	-	1,019	-	799	913	581	659
CAT2	553M	MGT	275	G02	201	-	-	-	-	-	108	36
	553M	MGT	277	G02	201	87	215	-	723	-	2,045	659
	553M	MGT	277	G02	501	8	7,007	-	-	-	-	1,470
CUMMINS												
CUM3	553M	MGT	275	G03	201	-	152	-	-	-	108	36
	553M	MGT	277	G03	201	194	2,936	-	3,125	764	500	659
	553M	MGT	277	G03	501	1,042	7	312	-	-	-	-
CUM4	553M	MGT	275	G04	201	-	-	-	-	-	108	36
	553M	MGT	275	G04	501	-	-	-	-	-	-	-
	553M	MGT	277	G04	201	410	152	-	1,061	757	3,131	659
	553M	MGT	277	G04	501	-	-	-	-	-	-	-
CUM5	553M	MGT	275	G05	201	-	152	-	-	-	108	36
	553M	MGT	277	G05	201	158	241	162	224	392	500	659
	553M	MGT	277	G05	501	-	-	-	-	-	-	-
CUM6	553M	MGT	275	G06	201	-	-	178	-	-	108	36
	553M	MGT	275	G06	501	-	-	-	-	-	-	-
	553M	MGT	277	G06	201	342	548	-	1,020	164	4,572	659
	553M	MGT	277	G06	501	-	-	-	250	-	-	-
CATERPILLAR							(MAJOR)		(TOP)			(MAJOR)
CAT7	553M	MGT	275	G07	201	4,964	185,379	707	101,479	(921)	809	3,838
	553M	MGT	275	G07	501	204,071	(169,992)	-	93,682	-	-	263,315
	553M	MGT	277	G07	201	5,508	4,423	14,958	1,638	20,331	6,239	7,943
	553M	MGT	277	G07	501	-	-	792	-	7,372	500	1,361
							(MAJOR)		(TOP)			(MAJOR)
CAT8	553M	MGT	275	G08	201	3,920	207,361	3,073	104,911	1,991	1,464	2,886
	553M	MGT	275	G08	501	195,000	(191,615)	-	62,511	-	-	263,315
	553M	MGT	277	G08	201	1,592	-	3,225	1,810	1,977	7,048	1,766
	553M	MGT	277	G08	501	-	-	-	-	-	500	-
							(MAJOR)		(TOP)			(MAJOR)
CAT9	553M	MGT	275	G09	201	3,314	20,551	781	103,857	101	1,192	1,645
	553M	MGT	275	G09	501	-	181,445	-	71,168	-	-	263,315
	553M	MGT	277	G09	201	2,602	3,399	6,359	711	5,280	15,322	3,252
	553M	MGT	277	G09	501	-	-	-	-	-	500	305
SOLAR GAS TURBINE												
GT1	55308TAN	MGT	272	GT1	501	-	-	-	-	-	-	-
		MGT	274	GT1	501	-	-	1,628	-	-	-	-

Standard Overhaul Material & Services List

EMD

Quanity	*Description*	*Cost/ Quanity*	*Labor Class*	*2006 Cost*	*Notes*	
8	Power Pack-Fork	$ 5,168.90		$ 41,351.22	201	Packet includes cylinder head, pistons, rings and cyclinder liners
8	Power Pack-Blade	$ 4,684.47		$ 37,475.79	201	
1	Turbocharger - UTEX	$ 25,760.70		$ 25,760.70	201	
1	Spring drive gear	$ 2,618.27		$ 2,618.27	201	
1	Main bearing kit, Lower	$ 1,931.54		$ 1,931.54	201	
1	Main bearing kit, Upper	$ 2,077.54		$ 2,077.54	201	
16	Piston & ring set	$ 657.51		$ 10,520.20	201	
1	Water Pump - RB	$ 791.67		$ 791.67	201	right bank
1	Water Pump - LB	$ 791.67		$ 791.67	201	left bank
16	Lower liner inserts	$ 58.08		$ 929.34	201	
16	Fuel injectors	$ 126.52		$ 2,024.34	201	
16	R/A Shaft Assy	$ 572.12		$ 9,153.86	201	
16	Viton head seat ring	$ 51.08		$ 817.34	201	
14	Oil element	$ 20.41		$ 285.74	201	Eileen updated stock part costs per e-mail dated 6/15/06 (Parts price includes tax and on-cost)
2	Spin on fuel element	$ 6.67		$ 13.34	201	Eileen updated stock part costs per e-mail dated 6/15/06 (Parts price includes tax and on-cost)
1	turbo filter element	$ 12.52		$ 12.52	201	Eileen updated stock part costs per e-mail dated 6/15/06 (Parts price includes tax and on-cost)
1	P/C pump	$ 796.41		$ 796.41	201	
Total Standard EMD Overhaul Costs				$ 137,351.47		

* note prices were updated based on quote from Valley Power Systems, Inc dated 05/17/06 + 4.167% tax, quote in 2007-2008 overhual file on shared drive.

Additional cost per overhaul unit:

2008

LL5 Major Overhaul 01/07/08 to 01/19/08 (2 weeks) **(MGA01) Temporary project #** **In House**

Materials:

1 MGE Materials (change bearings on motors, switches, RTD, etc) $ 5,000.00 Jan, No esclation

Outside Service:

Boat travel: 1-GF, 4-GEMANT, 12-GDMANT= $33 x 17=$561 (based on $33 per round trip)

MECO Labor Hours:

18	Ed Oyama 1 hr per day of O/H	DLSUPV
480	4 men working M-F 10 hrs plus Sat for 2 wks	GDMANT
120	Butch working M-F 10 hrs plus Sat for 2 wks	GLOPER
348	2 men working 2 wks M-F 10hrs plus Sat 8 hrs for 2 wks	GEMANT
16	Gerardo's labor	GESUPV

Note: Assume workers stay in company house.

Standard Overhaul Material & Service List

Cat Units (2400KW each)

Quanity	*Description*	*Cost/ Quanity*	*Labor Class*	*2006 Cost*	*Notes*	
1	Pacific Machinery-Major OH	$ 84,038.00	Materials(201)	$ 84,038 00	Based upon average of 3 OH actual cost in 2002	Not in
1	Pacific Machinery-Major OH	$126,057.00	Services (501)	$ 126,057.00	Use escalation rate of 12 6 % (2002 to 2007) Pay 3 months after overhaul	Pillar
1	Hawthorne Pacific -Major OH (All Services, no split)		Services (501)	$ 218,530.21	Actual costs from LL8 2006 Major OH Use 2006 base yr escalation, 1 mo after OH	In Pillar
Total Standard Cat Overhaul Costs				$ 428,625.21	$ -	

Additional cost per overhaul unit:

2007
Revised Schedule: 03/19/07 to 03/31/07
CAT 9 Overhaul 01/08/07 to 01/20/07 (Major overhaul) M0000031
Materials:

Outside Service.

1	Turbo cartridge reconditioning	$	5,191.74	EE=501 use 2006 base yr escalation, this is based upon LL8 Turbo recond in 2006 from ABB, 1 mo after OH
1	Air travel Maui to Molokai (2 round trips - GEMANT) $120 x 2	$	240.00	EE=522, Jan
1	Lodging GEMANT (10 days x $120/day)	$	1,200 00	EE=501, Feb
1	Generator Service, inspect, clean, service	$	32,000 00	HIS Electric (Honolulu), Feb (1 month after OH), use 2006 base yr escalation
1	Crane for lifting generator????			Not include in overhaul cost per overhaul meeting 06/20/06.

MECO Labor Hours:

112	2 person x 7 days	GTOPER
30	Damien	GTSUPV
100	1 man working 2 weeks (M-F 10 hr days, no Sat)	GEMANT

Revised Schedule: 04/02/07 to 04/14/07
CAT 8 Overhaul 01/22/07 to 02/03/07 (Major Overhaul) M0000030
Materials:

Outside Service

1	Turbo cartridge reconditioning	$	5,191.74	EE=501 use 2006 base yr escalation, this is based upon LL8 Turbo recond in 2006 from ABB, 1 mo after OH
1	Air travel Maui to Molokai (2 round trips - GEMANT) $120 x 2	$	240 00	EE=522, Jan
1	Lodging GEMANT (10 days x $120/day)	$	1,200 00	EE=501, Feb
1	Generator Service, inspect, clean, service	$	32,000.00	HIS Electric (Honolulu), Feb (1 month after OH), use 2006 base yr escalation
1	Crane for lifting generator????			Not include in overhaul cost per overhaul meeting 06/20/06

MECO Labor Hours:

112	2 person x 7 days	GTOPER
30	Damien	GTSUPV
100	1 man working 2 weeks (M-F 10 hr days, no Sat)	GEMANT

Revised Schedule: 04/16/07 to 04/28/07
CAT 7 Overhaul 02/05/07 to 02/17/07 (Major overhaul) M0000156
Materials:

Outside Service

1	Turbo cartridge reconditioning	$	5,191.74	EE=501 use 2006 base yr escalation, this is based upon LL8 Turbo recond in 2006 from ABB, 1 mo after OH
1	Air travel Maui to Molokai (2 round trips - GEMANT) $120 x 2	$	240 00	EE=522, Feb
1	Lodging GEMANT (10 days x $120/day)	$	1,200 00	EE=501, Mar
1	Generator Service; inspect, clean, service	$	32,000 00	HIS Electric (Honolulu), Mar (1 month after OH), use 2006 base yr escalation
1	Crane for lifting generator????			Not include in overhaul cost per overhaul meeting 06/20/06.

MECO Labor Hours:

112	2 person x 7 days	GTOPER
30	Damien	GTSUPV
100	1 man working 2 weeks (M-F 10 hr days, no Sat)	GEMANT

2008
NONE

CA-IR-82

Ref: MECO-WP-506 – Production O&M Comparative Data.

Please update this Schedule, including an additional "2006 Recorded" column of data, and revising column G to compare the 2007 budget to 2006 Actual data (provide Excel electronic format and hard copy).

MECO Response:

The requested information is attached.

Maui Electric Company, Limited

PRODUCTION OPERATION AND MAINTENANCE EXPENSE
Recorded 2001-2006 & Budgeted 2007 v. Recorded 2006, by NARUC

(Dollars)

NAR Acct No.	Description	(A) 2001	(B) 2002	(C) 2003	(D) 2004	(E) 2005	(F) 2006	(G) 2007	(H) (G) - (F) $ Diff	% Diff
		RECORDED						BUDGET	2007 Budg v. 2006 Rec	
PRODUCTION OPERATIONS										
500	Operation Supervisor & Engineer									
	Labor	71,958	54,108	49,119	74,080	66,970	75,099	65,837	(9,262)	-14%
	Non-Labor	491,360	279,807	602,082	267,288	492,714	502,262	447,176	(55,086)	-11%
	Total	563,318	333,915	651,201	341,368	559,684	577,361	513,013	(64,348)	-11%
502	Steam Expenses									
	Labor	1,243,773	1,316,789	1,252,833	1,179,213	1,233,612	1,289,089	1,268,195	34,583	3%
	Non-Labor	208,754	219,482	195,820	200,677	203,061	290,911	256,444	53,383	26%
	Total	1,452,527	1,536,271	1,448,653	1,379,890	1,436,673	1,580,000	1,524,639	87,966	6%
505	Electric Expenses									
	Labor	720,452	769,477	731,608	728,508	779,322	759,536	755,154	(24,168)	-3%
	Non-Labor	97,495	73,364	59,174	62,397	56,367	55,257	68,383	12,016	21%
	Total	817,947	842,841	790,782	790,905	835,689	814,793	823,537	(12,152)	-1%
506	Misc Steam Power Expenses									
	Labor	157,547	341,533	350,891	362,978	392,309	424,806	337,288	(55,021)	-14%
	Non-Labor	119,581	137,212	193,128	260,524	236,770	261,395	275,730	38,960	16%
	Total	277,128	478,745	544,019	623,502	629,079	686,201	613,018	(16,061)	-3%
507	Rents Exp-Steam Gen									
	Labor	0	0	0	0	0	0	0	0	n/a
	Non-Labor	0	0	0	0	0	0	0	0	n/a
	Total	0	0	0	0	0	0	0	0	n/a
546	Oper Supv & Eng-Oth Prd									
	Labor	163,676	338,196	385,595	414,727	412,764	398,065	435,583	22,819	6%
	Non-Labor	1,002,903	1,470,065	1,348,610	960,732	1,102,975	1,060,213	1,247,741	144,766	13%
	Total	1,166,579	1,808,261	1,734,205	1,375,459	1,515,739	1,458,278	1,683,324	167,585	11%
546L	Oper Supv & Eng-Oth Prd-Lanai									
	Labor	4,559	12,586	6,549	10,350	13,421	9,686	16,491	3,070	23%
	Non-Labor	94,043	145,111	125,701	100,418	109,932	127,387	128,266	18,334	17%
	Total	98,602	157,697	132,250	110,768	123,353	137,073	144,757	21,404	17%
546M	Oper Supv & Eng-Oth Prd-Molokai									
	Labor	9,361	7,891	17,685	18,901	17,274	12,589	19,970	2,696	16%
	Non-Labor	131,114	100,358	145,814	106,635	127,890	138,315	129,183	1,293	1%
	Total	140,475	108,249	163,499	125,536	145,164	150,904	149,153	3,989	3%

Maui Electric Company, Limited

PRODUCTION OPERATION AND MAINTENANCE EXPENSE
Recorded 2001-2006 & Budgeted 2007 v. Recorded 2006, by NARUC

(Dollars)

NAR Acct No.	Description	(A) 2001	(B) 2002	(C) 2003	(D) 2004	(E) 2005	(F) 2006	(G) 2007	(H) (G) - (F) 2007 Budg v. 2006 Rec $ Diff	% Diff
		RECORDED						BUDGET		
548	Generation Exp-Oth Prod									
	Labor	1,413,163	1,481,047	1,623,100	1,605,074	1,672,002	1,696,114	1,710,272	38,270	2%
	Non-Labor	1,273,891	1,622,009	1,319,049	1,397,319	1,394,289	2,563,405	1,411,887	17,598	1%
	Total	2,687,054	3,103,056	2,942,149	3,002,393	3,066,291	4,259,519	3,122,159	55,868	2%
548L	Generation Exp-Oth Prod-Lanai									
	Labor	383,191	383,012	374,018	379,840	380,454	386,293	393,990	13,536	4%
	Non-Labor	95,005	83,334	71,144	67,084	71,299	267,960	103,844	32,545	46%
	Total	478,196	466,346	445,162	446,924	451,753	654,253	497,834	46,081	10%
548M	Generation Exp-Oth Prod-Molokai									
	Labor	381,331	382,100	387,958	380,747	386,469	412,616	399,141	12,672	3%
	Non-Labor	93,306	92,079	73,601	90,737	79,932	303,850	113,423	33,491	42%
	Total	474,637	474,179	461,559	471,484	466,401	716,466	512,564	46,163	10%
549	Misc Expenses-Oth Prod									
	Labor	30,584	41,124	20,945	2,708	4,067	2,952	1,396	(2,671)	-66%
	Non-Labor	212,045	166,325	240,837	261,330	289,036	276,970	272,161	(16,875)	-6%
	Total	242,629	207,449	261,782	264,038	293,103	279,922	273,557	(19,546)	-7%
549L	Misc Expenses-Oth Prod-Lanai									
	Labor	3,761	6,722	2,008	3,362	2,024	479	5,022	2,998	148%
	Non-Labor	25,185	22,844	20,733	13,756	17,132	15,047	16,891	(241)	-1%
	Total	28,946	29,566	22,741	17,118	19,156	15,526	21,913	2,757	14%
549M	Misc Expenses-Oth Prod-Molokai									
	Labor	2,426	8,397	17,263	17,922	23,022	16,538	6,341	(16,681)	-72%
	Non-Labor	14,888	16,794	25,497	36,506	18,770	25,430	13,684	(5,086)	-27%
	Total	17,314	25,191	42,760	54,428	41,792	41,968	20,025	(21,767)	-52%
550L	Rents-Oth Prod-Lanai									
	Labor	0	0	0	0	0	0	0	0	n/a
	Non-Labor	0	0	0	0	0	0	0	0	n/a
	Total	0	0	0	0	0	0	0	0	n/a
557	Other Power Supply Expenses									
	Labor	7,871	10,989	9,173	13,229	10,563	22,108	8,853	(1,710)	-16%
	Non-Labor	21,022	13,259	16,247	157,214	59,061	58,000	99,637	40,576	69%
	Total	28,893	24,248	25,420	170,443	69,624	80,108	108,490	38,866	56%

Maui Electric Company, Limited

PRODUCTION OPERATION AND MAINTENANCE EXPENSE
Recorded 2001-2006 & Budgeted 2007 v. Recorded 2006, by NARUC

(Dollars)

NAR Acct No.	Description	(A) 2001	(B) 2002	(C) 2003	(D) 2004	(E) 2005	(F) 2006	(G) 2007	(H) (G) - (F) 2007 Budg v. 2006 Rec $ Diff	% Diff
		RECORDED						BUDGET		
PRODUCTION OPERATIONS (TOTALS)										
	Total Production Operations Accounts									
	Labor	4,593,653	5,153,971	5,228,745	5,191,639	5,394,273	5,505,970	5,423,533	29,260	1%
	Non-Labor	3,880,592	4,442,043	4,437,437	3,982,617	4,259,228	5,946,402	4,584,450	325,222	8%
	Total	8,474,245	9,596,014	9,666,182	9,174,256	9,653,501	11,452,372	10,007,983	354,482	4%
	Maui Production Operations Accounts									
	Labor	3,809,024	4,353,263	4,423,264	4,380,517	4,571,609	4,667,769	4,582,578	10,969	0%
	Non-Labor	3,427,051	3,981,523	3,974,947	3,567,481	3,834,273	5,068,413	4,079,159	244,886	6%
	Total	7,236,075	8,334,786	8,398,211	7,947,998	8,405,882	9,736,182	8,661,737	255,855	3%
	Lanai Production Operations Accounts									
	Labor	391,511	402,320	382,575	393,552	395,899	396,458	415,503	19,604	5%
	Non-Labor	214,233	251,289	217,578	181,258	198,363	410,394	249,001	50,638	26%
	Total	605,744	653,609	600,153	574,810	594,262	806,852	664,504	70,242	12%
	Molokai Production Operations Accounts									
	Labor	393,118	398,388	422,906	417,570	426,765	441,743	425,452	(1,313)	0%
	Non-Labor	239,308	209,231	244,912	233,878	226,592	467,595	256,290	29,698	13%
	Total	632,426	607,619	667,818	651,448	653,357	909,338	681,742	28,385	4%
PRODUCTION MAINTENANCE										
510	Maintenance Supervision & Engineer									
	Labor	7,960	83	0	0	0	0	0	0	n/a
	Non-Labor	12,673	4	0	0	18	0	0	(18)	-100%
	Total	20,633	87	0	0	18	0	0	(18)	-100%
511	Maintenance of Structures									
	Labor	42,117	82,629	62,904	68,231	87,508	88,134	112,880	25,372	29%
	Non-Labor	94,363	29,560	48,805	163,362	57,085	116,200	338,950	281,865	494%
	Total	136,480	112,189	111,709	231,593	144,593	204,334	451,830	307,237	212%
512	Maint Boiler & Fo Plant									
	Labor	419,370	273,156	534,222	508,821	495,847	424,055	705,763	209,916	42%
	Non-Labor	292,792	264,910	386,911	554,032	403,459	707,126	859,295	455,836	113%
	Total	712,162	538,066	921,133	1,062,853	899,306	1,131,181	1,565,058	665,752	74%

Maui Electric Company, Limited

PRODUCTION OPERATION AND MAINTENANCE EXPENSE
Recorded 2001-2006 & Budgeted 2007 v. Recorded 2006, by NARUC

(Dollars)

NAR Acct No.	Description	(A) 2001	(B) 2002	(C) 2003	(D) 2004	(E) 2005	(F) 2006	(G) 2007	(H) (G) - (F) 2007 Budg v. 2006 Rec $ Diff	% Diff
		RECORDED						BUDGET		
513	Maintenance Electric Plant									
	Labor	242,959	143,304	227,940	322,525	379,124	475,384	342,253	(36,871)	-10%
	Non-Labor	384,503	88,630	157,467	274,260	270,499	578,661	184,507	(85,992)	-32%
	Total	627,462	231,934	385,407	596,785	649,623	1,054,045	526,760	(122,863)	-19%
514	Maint Misc Steam Plant									
	Labor	140,174	175,695	208,576	238,362	275,218	269,364	283,270	8,052	3%
	Non-Labor	93,140	88,186	181,124	278,136	176,805	240,407	194,214	17,409	10%
	Total	233,314	263,881	389,700	516,498	452,023	509,771	477,484	25,461	6%
551	Maint Supv & Eng-Oth Prd									
	Labor	29,249	0	0	0	0	0	0	0	n/a
	Non-Labor	23,748	199	0	0	0	0	0	0	n/a
	Total	52,997	199	0	0	0	0	0	0	n/a
551L	Maint Supv & Eng-Oth Prd-Lanai									
	Labor	0	0	0	0	0	0	0	0	n/a
	Non-Labor	394	0	0	0	0	0	0	0	n/a
	Total	394	0	0	0	0	0	0	0	n/a
552	Maint Structures-Oth Prd									
	Labor	192,666	160,782	155,062	159,480	177,948	172,344	96,104	(81,844)	-46%
	Non-Labor	260,136	408,063	266,693	301,736	198,712	313,019	251,289	52,577	26%
	Total	452,802	568,845	421,755	461,216	376,660	485,363	347,393	(29,267)	-8%
552L	Maint Structures-Oth Prd-Lanai									
	Labor	83,331	47,049	52,608	47,702	46,056	39,742	120,974	74,918	163%
	Non-Labor	13,969	7,578	12,873	4,102	7,602	30,335	17,242	9,640	127%
	Total	97,300	54,627	65,481	51,804	53,658	70,077	138,216	84,558	158%
552M	Maint Structures-Oth Prd-Molokai									
	Labor	24,544	32,219	28,434	28,994	33,084	30,504	33,020	(64)	0%
	Non-Labor	12,110	8,023	7,129	58,820	7,410	21,851	8,072	662	9%
	Total	36,654	40,242	35,563	87,814	40,494	52,355	41,092	598	1%
553	Maint Elec Plant-Oth Prod									
	Labor	1,777,828	1,830,731	1,537,430	1,725,481	1,615,584	1,761,402	1,947,999	332,415	21%
	Non-Labor	4,546,017	4,413,628	3,959,501	4,169,403	4,274,433	4,253,689	7,737,538	3,463,105	81%
	Total	6,323,845	6,244,359	5,496,931	5,894,884	5,890,017	6,015,091	9,685,537	3,795,520	64%

Maui Electric Company, Limited

PRODUCTION OPERATION AND MAINTENANCE EXPENSE
Recorded 2001-2006 & Budgeted 2007 v. Recorded 2006, by NARUC

(Dollars)

NAR Acct No.	Description	(A) 2001	(B) 2002	(C) 2003	(D) 2004	(E) 2005	(F) 2006	(G) 2007	(H) (G) - (F) 2007 Budg v. 2006 Rec $ Diff	% Diff
		RECORDED						BUDGET		
553L	Maint Elec Plant-Oth Prod-Lanai									
	Labor	15,921	27,811	14,089	23,716	48,260	67,101	15,826	(32,434)	-67%
	Non-Labor	536,899	70,730	209,092	200,018	107,545	1,100,398	72,884	(34,661)	-32%
	Total	552,820	98,541	223,181	223,734	155,805	1,167,499	88,710	(67,095)	-43%
553M	Misc Expenses-Oth Prod-Molokai									
	Labor	15,177	18,679	37,287	38,383	30,827	38,879	55,637	24,810	80%
	Non-Labor	427,951	250,539	48,021	569,819	51,773	160,063	836,116	784,343	1515%
	Total	443,128	269,218	85,308	608,202	82,600	198,942	891,753	809,153	980%
554	Maint Misc Plant-Oth Prod									
	Labor	19,192	57,174	185,108	137,412	168,956	141,093	132,908	(36,048)	-21%
	Non-Labor	2,178	16,291	242,282	173,352	193,710	166,554	213,784	20,074	10%
	Total	21,370	73,465	427,390	310,764	362,666	307,647	346,692	(15,974)	-4%
554L	Maint Misc Plant-Oth Prod-Lanai									
	Labor	15,085	41,227	30,118	21,012	21,402	2,726	18,166	(3,236)	-15%
	Non-Labor	2,065	3,050	278	515	11,337	1,814	9,947	(1,390)	-12%
	Total	17,150	44,277	30,396	21,527	32,739	4,540	28,113	(4,626)	-14%
554M	Maint Misc Plant-Oth Prod-Molokai									
	Labor	10,132	25,941	23,316	19,277	21,632	22,511	37,578	15,946	74%
	Non-Labor	1,517	2,601	1,805	1,591	1,365	11,273	2,726	1,361	100%
	Total	11,649	28,542	25,121	20,868	22,997	33,784	40,304	17,307	75%
PRODUCTION MAINTENANCE (TOTALS)										
	Total Production Maintenance Accounts									
	Labor	3,035,705	2,916,480	3,097,094	3,339,396	3,401,446	3,533,239	3,902,378	500,932	15%
	Non-Labor	6,704,455	5,651,992	5,521,981	6,749,146	5,761,753	7,701,390	10,726,564	4,964,811	86%
	Total	9,740,160	8,568,472	8,619,075	10,088,542	9,163,199	11,234,629	14,628,942	5,465,743	60%
	Maui Production Maintenance Accounts									
	Labor	2,871,515	2,723,554	2,911,242	3,160,312	3,200,185	3,331,776	3,621,177	420,992	13%
	Non-Labor	5,709,550	5,309,471	5,242,783	5,914,281	5,574,721	6,375,656	9,779,577	4,204,856	75%
	Total	8,581,065	8,033,025	8,154,025	9,074,593	8,774,906	9,707,432	13,400,754	4,625,848	53%
	Lanai Production Maintenance Accounts									
	Labor	114,337	116,087	96,815	92,430	115,718	109,569	154,966	39,248	34%
	Non-Labor	553,327	81,358	222,243	204,635	126,484	1,132,547	100,073	(26,411)	-21%
	Total	667,664	197,445	319,058	297,065	242,202	1,242,116	255,039	12,837	5%

Maui Electric Company, Limited

PRODUCTION OPERATION AND MAINTENANCE EXPENSE
Recorded 2001-2006 & Budgeted 2007 v. Recorded 2006, by NARUC

(Dollars)

NAR Acct No.	Description	(A) 2001	(B) 2002	(C) 2003	(D) 2004	(E) 2005	(F) 2006	(G) 2007	(H) (G) - (F) 2007 Budg v. 2006 Rec $ Diff	% Diff
		RECORDED						BUDGET		
	Molokai Production Maintenance Accounts									
	Labor	49,853	76,839	89,037	86,654	85,543	91,894	126,235	40,692	48%
	Non-Labor	441,578	261,163	56,955	630,230	60,548	193,187	846,914	786,366	1299%
	Total	491,431	338,002	145,992	716,884	146,091	285,081	973,149	827,058	566%

Source: MECO-WP-502

CA-IR-83

Ref: MECO-WP-502, (Production O&M Details).

Please provide a complete copy of this report in magnetic media (Excel format), adding a column with 2006 Actual recorded expense amounts.

MECO Response:

The requested information is being provided in magnetic media (Excel format). In addition, a PDF file is also being provided.

CA-IR-84

Ref: MECO T-5, page 24, line 14 (Overhaul Normalization).

According to the testimony, "Power generating unit overhauls occur at various intervals based on running hours and operating conditions and at different costs, depending on the type of unit and overhaul performed." Please provide a summary of the overhaul history for each MECO generating unit, describing the type of overhauls done historically and itemized labor and non-labor costs for each overhaul that has occurred in the years 1998 through 2006.

MECO Response:

Only non-labor expenses have been used to normalize overhaul costs in the 2007 forecast. Non-labor expenses used to provide the normalized forecast were from the years 2001 to 2005. Since maintenance labor is used for routine maintenance as well as for overhaul maintenance, MECO considers the maintenance labor hours to be self normalizing. Non-labor costs for years 1998 to 2000 are being provided per the CAs request but were not used for the forecast. At Kahului Generating Station the steam turbine generators are overhauled every 6 years and the average costs of these overhauls are used for normalization. Overhauls for diesel units are based on engine running hours. The historical overhaul histories for these units are attached as Attachment 1. All diesel units on Maui are considered major overhauls except for the Mitsubishi units at Maalaea Generating Station which alternates between a "TOP" overhaul and a "MAJOR" overhaul. The generating units on Lanai and Molokai undergo "MAJOR" overhauls because of their age. The newer CAT units on Lanai and Molokai alternate between a "TOP" overhaul and a "MAJOR" overhaul. Cost identified in the boxes are recorded costs for the particular overhaul. Costs that are outside of the box are maintenance costs that have not been confirmed part of an overhaul.

KAHULUI POWER PLANT
STEAM TURBINE OVERHAULS
NONLABOR EXPENSES
513 MAINTENANCE ELECTRIC PLANT

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
K1	513	MGB	260	N01	501	85,658	-	-	-	-	-	60,000
	513	MGE	260	N01	501	-	-	-	-	-	-	-
	513	MGE	260	N01	201	5,355	1,916	1,442	3,982	4,246	3,000	3,000
	513	MGE	262	N01	501	45,196	-	3,010	-	-	-	-
K2	513	MGB	260	N02	501	-	-	-	61,419	-	-	-
	513	MGE	260	N02	501	-	-	-	61,068	-	-	-
	513	MGE	260	N02	201	4,469	1,437	3,774	1,755	904	-	3,000
	513	MGE	262	N02	501	-	-	-	2,070	-	-	-
K3	513	MGB	260	N03	501	-	-	-	-	67,876	-	-
	513	MGE	260	N03	501	1,877	-	-	-	-	-	-
	513	MGE	260	N03	201	4,664	840	2,987	3,065	8,490	4,000	4,000
	513	MGE	262	N03	501	-	-	-	-	3,328	6,096	-
K4	513	MGB	260	N04	501	-	-	-	-	55,829	-	-
	513	MGE	260	N04	501	3,646	-	-	-	11,771	-	-
	513	MGE	260	N04	201	8,003	3,854	1,280	792	4,516	2,678	4,000
	513	MGE	262	N04	501	650	-	-	3,372	13,601	900	5,000

MAALAEA POWER PLANT
STEAM TURBINE OVERHAULS
NONLABOR EXPENSES
513 MAINTENANCE ELECTRIC PLANT

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
M15	513	MGC	260	M15	501	-	-	-	-	-	54,660	-
	513	MGD	260	M15	501	114,533	-	-	-	-	-	-
	513	MGE	260	M15	501	-	-	-	-	-	24,838	-
	513	MGC	262	M15	501	-	-	19,583	-	-	-	2,798
	513	MGD	262	M15	501	9,718	-	-	-	-	-	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	2001	2002	RECORDED 2003	2004	2005	UPDATED 2006	BUDGET 2007
EMD												
X-1	553	MGD	275	MX1	201	-	49	-	94,713	894	-	-
	553	MGD	275	MX1	501	-	-	79,100	(21,544)	-	-	-
	553	MGE	275	MX1	501	-	-	-	6,099	-	-	-
	553	MGD	277	MX1	201	21,839	6,015	13,860	2,258	1,070	535	-
	553	MGE	277	MX1	501	-	6,240	-	-	8,097	-	-
X-2	553	MGD	275	MX2	201	382	1,533	1,248	101,100	1,784	1,469	-
	553	MGE	275	MX2	201	-	-	-	2,968	-	-	-
	553	MGD	275	MX2	501	-	-	79,100	(16,329)	-	-	-
	553	MGD	277	MX2	201	657	5,131	1,517	23,904	34,736	434	-
	553	MGE	277	MX2	201	330	757	3,272	2,471	701	1,201	2,433
	553	MGE	277	MX2	501	-	-	516	3,946	7,242	-	-
M-1	553	MGD	275	M01	201	55	540	-	119,125	14,899	53	-
	553	MGE	275	M01	201	(69)	3,132	3,188	1,781	-	-	-
	553	MGD	275	M01	501	(467)	-	-	-	-	-	-
	553	MGD	277	M01	201	969	3,666	194	9,039	16,684	568	-
	553	MGE	277	M01	201	2,960	(14,987)	3,264	8,694	9,521	2,028	2,433
	553	MGD	277	M01	501	-	-	-	-	-	-	474
	553	MGE	277	M01	501	-	-	-	-	7,299	6,000	8,283
M-2	553	MGE	275	M02	201	705	-	-	4,119	-	-	-
	553	MGD	275	M02	201	165	46	1,272	111,686	14	2,592	1,727
	553	MGD	275	M02	501	331	-	-	-	-	-	-
	553	MGE	277	M02	201	51	6,016	8,091	2,794	917	1,254	2,433
	553	MGD	277	M02	201	6,817	15,367	453	1,648	466	359	-
	553	MGE	277	M02	501	-	-	-	19,083	9,193	-	-
M-3	553	MGD	275	M03	201	-	133,345	-	-	14	-	166,992
	553	MGE	275	M03	201	-	-	-	-	-	-	4,000
	553	MGD	275	M03	501	798	1,966	-	-	-	-	-
	553	MGD	277	M03	201	1,518	119	1,263	21,496	58,603	1,307	57,711
	553	MGE	277	M03	201	97	4,320	3,016	8,090	12,612	(7,147)	2,433
	553	MGD	277	M03	501	-	-	-	-	-	-	-
	553	MGE	277	M03	501	-	312	-	-	-	-	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	2001	2002	RECORDED 2003	2004	2005	UPDATED 2006	BUDGET 2007
COOPER-BESSEMER												
M-4	553	MGD	275	M04	201	10,094	242,560	13,631	8,814	781	(10)	186,690
	553	MGE	275	M04	201	-	10,596	-	-	-	-	8,000
	553	MGD	275	M04	501	-	124,517	-	-	-	23,279	10,000
	553	MGE	275	M04	501	448	2,080	-	-	-	-	-
	553	MGD	277	M04	201	13,899	6,393	23,441	31,976	81,300	30,777	-
	553	MGE	277	M04	201	103	3,098	(2,546)	1,792	42,588	1,680	3,401
	553	MGD	277	M04	501	-	107,885	-	-	23,893	153,720	53,496
	553	MGE	277	M04	501	-	-	7,011	-	-	6,000	1,036
M-5	553	MGD	275	M05	201	(6,811)	(1,742)	282	(3,591)	-	4,193	201,819
	553	MGD	275	M05	501	249,341	4,878	4,878	11,544	-	-	112,650
	553	MGD	277	M05	201	(1,140)	5,474	65,407	1,765	20,513	12,968	-
	553	MGD	277	M05	501	-	-	11,488	-	10,169	3,392	-
M-6	553	MGD	275	M06	201	1,817	171,502	81,173	812	11,295	-	186,690
	553	MGE	275	M06	201	-	887	4,423	-	-	-	8,000
	553	MGD	275	M06	501	798	26,500	99,441	36,956	20,661	-	-
	553	MGD	277	M06	201	6,753	82,980	9,736	27,678	19,994	19,502	84,051
	553	MGE	277	M06	201	3,457	15,844	3,742	904	459	1,917	3,401
	553	MGD	277	M06	501	-	12,034	9,955	-	-	2,527	-
M-7	553	MGD	275	M07	201	274,907	48,270	175	8,154	1,493	-	-
	553	MGE	275	M07	201	857	4,916	-	-	-	-	-
	553	MGD	275	M07	501	-	60,286	-	-	-	-	-
	553	MGD	277	M07	201	44,049	84,693	(22,548)	15,982	8,782	86	-
	553	MGE	277	M07	201	(1,636)	1,184	6,659	677	139	2,149	3,401
	553	MGD	277	M07	501	27,131	114,150	8,830	5,658	-	2,371	-
COLT-PIELSTICK												
M-8	553	MGD	275	M08	201	49,323	(2,937)	128	2,784	2,510	-	149,390
	553	MGE	275	M08	201	599	-	-	-	-	-	8,000
	553	MGD	275	M08	501	215,413	431	-	1,388	-	-	60,885
	553	MGE	275	M08	501	-	-	-	-	-	-	-
	553	MGD	277	M08	201	25,872	164,843	(26,498)	11,697	18,848	17,633	-
	553	MGE	277	M08	201	426	603	6,545	1,112	7,217	1,918	2,977
	553	MGD	277	M08	501	-	18,544	24,004	1,857	3,087	-	25,084
	553	MGE	277	M08	501	232	-	-	-	-	6,000	1,983
M-9	553	MGD	275	M09	201	4,549	1,381	15,517	1,507	(10,295)	148,804	3,622
	553	MGE	275	M09	201	-	-	-	-	-	8,160	-
	553	MGD	275	M09	501	671	-	35,048	1,106	-	20,400	25,376
	553	MGE	275	M09	501	-	-	-	-	-	-	-
	553	MGD	277	M09	201	(2,027)	42,069	(14,970)	7,619	16,406	13,734	58,417
	553	MGE	277	M09	201	(9,176)	2,954	295	77	-	1,718	2,977
	553	MGD	277	M09	501	-	-	-	272	25,195	7,092	-
	553	MGE	277	M09	501	7,839	-	-	-	-	-	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
MITSUBISHI-MAN							(TOP)		(MAJOR)		(TOP)	
M-10	553	MGD	275	M10	201	387,676	507,465	(188,882)	812,379	23,946	359,586	26,185
	553	MGE	275	M10	201	10,666	12,703	6,240	11,550	1,099	12,000	-
	553	MGD	275	M10	501	74,458	98,844	(24,685)	16,783	74,087	120,255	-
	553	MGE	275	M10	501	10	1,087	-	-	73	-	-
	553	MGD	277	M10	201	83,507	12,903	193,662	49,396	19,901	27,446	-
	553	MGE	277	M10	201	2,214	5,314	4,973	9,445	1,089	9,781	2,708
	553	MGD	277	M10	501	5,204	20	7,885	1,312	-	-	40,619
	553	MGE	277	M10	501	-	-	5,051	-	-	6,000	6,945
							(MAJOR)		(TOP)		(MAJOR)	
M-11	553	MGD	275	M11	201	19,192	497,017	130,201	308,469	-	533,635	17,965
	553	MGE	275	M11	201	83	8,965	-	21,520	(444)	17,389	-
	553	MGD	275	M11	501	31,107	40,146	-	73,816	-	206,513	-
	553	MGE	275	M11	501	-	86,870	-	-	-	-	-
	553	MGD	277	M11	201	33,917	39,218	60,192	175,698	78,785	15,765	-
	553	MGE	277	M11	201	12,551	9,529	(2,293)	484	11,080	4,945	2,708
	553	MGD	277	M11	501	549	-	-	1,498	14,076	4,670	-
	553	MGE	277	M11	501	-	8,840	-	-	-	-	-
						(MAJOR)		(TOP)		(MAJOR)		
M-12	553	MGD	275	M12	201	314,893	112,789	279,331	12,479	492,874	45,758	451,458
	553	MGE	275	M12	201	5,884	-	5,729	-	7,833	-	12,000
	553	MGD	275	M12	501	99,687	50,166	70,649	-	98,963	27,190	123,350
	553	MGD	277	M12	201	1,938	7,688	86,140	14,671	36,965	42,720	176,493
	553	MGE	277	M12	201	(4,154)	1,142	1,445	1,402	1,062	6,864	2,708
	553	MGD	277	M12	501	14,478	-	10,312	-	61,222	101,796	-
	553	MGE	277	M12	501	-	-	6,194	-	-	-	-
						(TOP)		(MAJOR)		(TOP)		
M-13	553	MGD	275	M13	201	308,228	24,043	404,713	54,431	346,446	1,186	300,000
	553	MGE	275	M13	201	9,172	-	11,692	-	16,436	-	-
	553	MGD	275	M13	501	20,520	63,583	187,004	3,572	84,123	1,834	-
	553	MGD	277	M13	201	15,080	19,266	7,372	26,318	40,536	14,101	-
	553	MGE	277	M13	201	1,541	2,691	1,228	7,547	2,355	5,018	2,708
	553	MGD	277	M13	501	14,135	-	8,657	80,668	29,290	234,489	-
	553	MGE	277	M13	501	-	1,096	-	19,091	-	19,400	-

MAALAEA POWER PLANT
MAAALAEA UNIT OVERHAULS
NONLABOR OVERHAUL EXPENSES
553 MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	2001	2002	RECORDED 2003	2004	2005	UPDATED 2006	BUDGET 2007
G.E. LM2500 - COMBUSTION TURBINE												
M-14	553	MGC	272	M14	201	-	-	35,582	20,065	45,671	72,945	45,099
	553	MGD	272	M14	201	844,039	16,863	630	-	-	-	-
	553	MGE	272	M14	201	33,978	-	1,754	1,742	-	-	-
	553	MGC	272	M14	501	-	-	779,395	56	1,918,639	1,469	161,615
	553	MGD	272	M14	501	358,245	2,421	-	-	-	-	-
	553	MGE	272	M14	501	30,042	10,952	8,275	13,542	11,971	6,446	10,704
	553	MGC	274	M14	201	-	-	881	846	3,869	28,864	1,724
	553	MGD	274	M14	201	11,687	15,631	(1,875)	-	-	-	-
	553	MGE	274	M14	201	-	2,834	4,402	1,961	4,071	5,506	5,227
	553	MGC	274	M14	501	-	-	8,125	-	19,700	12,310	9,275
	553	MGD	274	M14	501	12,628	-	803	(803)	-	-	-
	553	MGE	274	M14	501	-	-	-	-	1,222	-	-
M-16	553	MGC	272	M16	201	-	-	28,200	27,426	42,987	39,930	45,290
	553	MGD	272	M16	201	344,018	25,750	811	-	-	-	-
	553	MGE	272	M16	201	-	-	4,054	-	-	2,000	2,000
	553	MGC	272	M16	501	-	-	-	824,302	-	295	2,532,060
	553	MGD	272	M16	501	86,503	891,175	-	-	-	-	-
	553	MGE	272	M16	501	10,490	10,952	101,126	13,542	11,971	6,446	10,704
	553	MGC	274	M16	201	-	-	20,563	2,832	2,171	4,092	7,852
	553	MGD	274	M16	201	45,236	17,987	4,772	1,738	(490)	-	-
	553	MGE	274	M16	201	101	26	3,910	120	18,258	4,609	5,227
	553	MGC	274	M16	501	-	-	604	13,091	817	-	4,837
	553	MGD	274	M16	501	41,142	-	1,423	-	-	-	-
	553	MGE	274	M16	501	-	-	-	12,207	-	-	-
M-17	553	MGC	272	M17	201	-	-	3,482	8,303	2,368	8,049	6,033
	553	MGD	272	M17	201	81	2,590	-	-	-	-	-
	553	MGE	272	M17	201	344	-	-	13,829	-	2,121	5,000
	553	MGC	272	M17	501	-	-	-	545,007	-	-	853,230
	553	MGD	272	M17	501	1,628	-	-	-	-	-	-
	553	MGE	272	M17	501	10,490	10,951	8,275	13,542	11,971	6,446	10,704
	553	MGC	274	M17	201	-	-	1,026	5,440	4,506	10,759	3,396
	553	MGD	274	M17	201	9,569	8,376	306	-	-	-	-
	553	MGE	274	M17	201	1,269	19,281	14,237	5,345	30,180	6,532	5,227
	553	MGC	274	M17	501	-	-	2,208	5,497	13,683	-	7,130
	553	MGD	274	M17	501	6,769	-	-	-	-	-	-
	553	MGE	274	M17	501	-	-	-	3,947	2,467	-	-
M-19	553	MGC	272	M19	201	-	-	5,723	4,973	5,968	8,535	7,353
	553	MGD	272	M19	201	237	2,668	-	-	-	-	-
	553	MGE	272	M19	201	-	-	-	-	-	28	5,000
	553	MGC	272	M19	501	-	-	780,000	-	-	862,160	853,230
	553	MGE	272	M19	501	10,490	10,951	8,275	13,542	11,971	6,446	10,704
	553	MGC	274	M19	201	-	-	6,403	17,507	5,006	10,792	8,971
	553	MGD	274	M19	201	1,809	4,999	-	-	-	-	-
	553	MGE	274	M19	201	(729)	6,282	20,079	12,014	10,197	2,505	5,227
	553	MGC	274	M19	501	-	-	-	11,934	46,384	13,279	19,439
	553	MGD	274	M19	501	5,683	-	-	-	-	-	-
	553	MGE	274	M19	501	95	2,080	611	3,739	5,118	6,000	18,986

LANAI POWER PLANT
MIKI BASIN OVERHAULS
NONLABOR OVERHAUL EXPENSES
553L MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
EMD												
LL1	553L	MGL	275	L01	201	-	-	-	-	-	375	32
	553L	MGL	275	L01	501	-	-	-	-	-	-	-
	553L	MGL	277	L01	201	3,475	1,034	-	166	1,820	1,089	1,306
	553L	MGL	277	L01	501	-	-	-	-	-	500	103
LL2	553L	MGL	275	L02	201	-	-	-	-	-	375	32
	553L	MGL	275	L02	501	-	-	-	1,047	-	-	-
	553L	MGL	277	L02	201	4,728	1,917	-	166	501	831	1,306
	553L	MGL	277	L02	501	-	84	-	-	-	500	103
LL3	553L	MGL	275	L03	201	-	-	-	-	-	375	32
	553L	MGL	275	L03	501	100	-	-	-	-	-	-
	553L	MGL	277	L03	201	971	-	1,316	-	1,555	1,967	1,306
	553L	MGE	277	L03	501	-	14	-	-	-	-	-
	553L	MGL	277	L03	501	-	-	-	-	-	500	103
LL4	553L	MGL	275	L04	201	-	-	-	-	-	375	32
	553L	MGL	275	L04	501	-	-	-	-	1,560	-	-
	553L	MGL	277	L04	201	1,223	32	-	1,116	646	4,751	1,306
	553L	MGD	277	L04	501	-	-	-	-	82	-	-
	553L	MGE	277	L04	501	-	14	-	-	-	-	-
	553L	MGL	277	L04	501	333	-	-	859	-	500	103
LL5	553L	MGE	275	L05	201	-	-	-	-	-	-	-
	553L	MGL	275	L05	201	-	-	-	-	-	375	32
	553L	MGL	275	L05	501	-	-	-	-	-	-	-
	553L	MGE	277	L05	201	-	-	-	3	-	-	-
	553L	MGL	277	L05	201	7,164	-	-	4,151	402	628	1,306
	553L	MGL	277	L05	501	1,350	861	-	-	-	500	103
LL6	553L	MGL	275	L06	201	-	-	-	-	-	375	32
	553L	MGL	275	L06	501	-	-	-	-	-	-	-
	553L	MGL	277	L06	201	18,986	-	-	-	2,392	1,305	1,306
	553L	MGL	277	L06	501	208	-	-	-	-	500	103
CATERPILLAR						**(MAJOR)**		**(TOP)**			**(MAJOR)**	
LL7	553L	MGL	275	L07	201	214,244	4,279	91,042	3,890	2,451	172,921	4,110
	553L	MGL	275	L07	501	10,704	-	55,744	214	-	132,033	-
	553L	MGL	277	L07	201	8,570	17,515	2,291	2,326	27,827	9,574	9,350
	553L	MGL	277	L07	501	-	2,774	4,273	171	9,479	2,000	2,784
						(MAJOR)			**(TOP)**		**(MAJOR)**	
LL8	553L	MGL	275	L08	201	194,437	4,538	4,959	103,035	2,451	18,609	3,997
	553L	MGL	275	L08	501	11,157	-	-	62,794	-	218,530	-
	553L	MGL	277	L08	201	10,613	9,318	4,712	1,544	18,278	2,525	7,338
	553L	MGL	277	L08	501	2,371	4,550	13,523	223	4,535	337,813	6,030

MOLOKAI POWER PLANT
PALAAU OVERHAULS
NONLABOR OVERHAUL EXPENSES
553M MAINT ELEC PLANT - OTH PROD

	NARUC	RA	ACT	LOC	EE	RECORDED 2001	2002	2003	2004	2005	UPDATED 2006	BUDGET 2007
CATERPILLAR												
CAT1	553M	MGT	275	G01	201	-	-	-	-	-	108	36
	553M	MGT	277	G01	201	-	1,019	-	799	913	581	659
CAT2	553M	MGT	275	G02	201	-	-	-	-	-	108	36
	553M	MGT	277	G02	201	87	215	-	723	-	2,045	659
	553M	MGT	277	G02	501	8	7,007	-	-	-	-	1,470
CUMMINS												
CUM3	553M	MGT	275	G03	201	-	152	-	-	-	108	36
	553M	MGT	277	G03	201	194	2,936	-	3,125	764	500	659
	553M	MGT	277	G03	501	1,042	7	312	-	-	-	-
CUM4	553M	MGT	275	G04	201	-	-	-	-	-	108	36
	553M	MGT	275	G04	501	-	-	-	-	-	-	-
	553M	MGT	277	G04	201	410	152	-	1,061	757	3,131	659
	553M	MGT	277	G04	501	-	-	-	-	-	-	-
CUM5	553M	MGT	275	G05	201	-	152	-	-	-	108	36
	553M	MGT	277	G05	201	158	241	162	224	392	500	659
	553M	MGT	277	G05	501	-	-	-	-	-	-	-
CUM6	553M	MGT	275	G06	201	-	-	178	-	-	108	36
	553M	MGT	275	G06	501	-	-	-	-	-	-	-
	553M	MGT	277	G06	201	342	548	-	1,020	164	4,572	659
	553M	MGT	277	G06	501	-	-	-	250	-	-	-
CATERPILLAR						(MAJOR)			(TOP)			(MAJOR)
CAT7	553M	MGT	275	G07	201	4,964	185,379	707	101,479	(921)	809	3,838
	553M	MGT	275	G07	501	204,071	(169,992)	-	93,682	-	-	263,315
	553M	MGT	277	G07	201	5,508	4,423	14,958	1,638	20,331	6,239	7,943
	553M	MGT	277	G07	501	-	-	792	-	7,372	500	1,361
						(MAJOR)			(TOP)			(MAJOR)
CAT8	553M	MGT	275	G08	201	3,920	207,361	3,073	104,911	1,991	1,464	2,886
	553M	MGT	275	G08	501	195,000	(191,615)	-	62,511	-	-	263,315
	553M	MGT	277	G08	201	1,592	-	3,225	1,810	1,977	7,048	1,766
	553M	MGT	277	G08	501	-	-	-	-	-	500	-
							(MAJOR)		(TOP)			(MAJOR)
CAT9	553M	MGT	275	G09	201	3,314	20,551	781	103,857	101	1,192	1,645
	553M	MGT	275	G09	501	-	181,445	-	71,168	-	-	263,315
	553M	MGT	277	G09	201	2,602	3,399	6,359	711	5,280	15,322	3,252
	553M	MGT	277	G09	501	-	-	-	-	-	500	305
SOLAR GAS TURBINE												
GT1	55308TAN	MGT	272	GT1	501	-	-	-	-	-	-	-
		MGT	274	GT1	501	-	-	1,628	-	-	-	-

KAHULUI POWER PLANT
STEAM TURBINE OVERHAULS
(GB/GE) NONLABOR EXPENSES
FIS REPORT WP-101

		ACTIVITY	COST TYPE	1995	1996	1997	1998	1999	TOTAL	AVERAGED NONLABOR OVHL COST
K1	GB/BE	513021KH	201/501	54,665					54,665	55,590
K2	GB/BE	513022KH	201/501				48,999		48,999	
K3	GB/BE	513023KH	201/501					67,116	67,116	
K4	GB/BE	513024KH	201/501					51,579	51,579	

MAALAEA POWER PLANT
(GD/GE) NONLABOR OVERHAUL EXPENSES
FIS REPORT WP-101

		ACTIVITY	COST TYPE	1995	1996	1997	1998	1999	TOTAL	TOTAL NONLABOR OVHL COST	AVERAGED NONLABOR OVHL COST	AVERAGE TOP/MAJOR OVERHAUL	AVERAGE COMBINED OVERHAUL
EMD													
X-1	GD	55302X1M	201/202	47,683	715				48,398	53,370	67,575	67,575	70,885
	GD	55302X1M	501/522	4,547	141				4,688				
	GE	55302X1M	201/202	25	259				284				
	GE	55302X1M	501/522						-				
	* GD	55302X1M	201/202	25,000	Turbocharger changed in 1991								
X-2	GD	55302X2M	201/202	76,969	(2,425)				74,544	81,779			
	GD	55302X2M	501/522	6,901					6,901				
	GE	55302X2M	201/202	334					334				
	GE	55302X2M	501/522						-				
M-1	GD	5530201M	201/202						-	-			
	GD	5530201M	501/522						-				
	GE	5530201M	201/202						-				
	GE	5530201M	501/522						-				
M-2	GD	5530202M	201/202						-	-			
	GD	5530202M	501/522						-				
	GE	5530202M	201/202						-				
	GE	5530202M	501/522						-				
M-3	GD	5530203M	201/202	71,591					71,591	74,196	74,196	74,196	
	GD	5530203M	501/522	2,605					2,605				
	GE	5530203M	201/202						-				
	GE	5530203M	501/522						-				
	* GD	5530203M	501/522	43,902	Power Pack warranty settlement								

* DENOTES EXPENSES NOT NORMAL TO THIS TYPE OF UNIT OVERHAUL.
THESE EXPENSES WERE LISTED IN TOTAL OVERHAUL COST BUT WERE NOT INCLUDE IN CALCULATING NORMAL OVERHAUL EXPENSE.

MAALAEA POWER PLANT
(GD/GE) NONLABOR OVERHAUL EXPENSES
FIS REPORT WP-101

		ACTIVITY	COST TYPE	1995	1996	1997	1998	1999	TOTAL	TOTAL NONLABOR OVHL COST	AVERAGED NONLABOR OVHL COST	AVERAGE TOP/MAJOR OVERHAUL	AVERAGE COMBINED OVERHAUL
COOPER-BESSEMER													
M-4	GD	5530204M	201/202						-	245,269	245,269	245,269	245,269
	GD	5530204M	501/522						-				
	GE	5530204M	201/202						-				
	GE	5530204M	501/522						-				
M-5	GD	5530205M	201/202						-				
	GD	5530205M	501/522						-				
	GE	5530205M	201/202						-				
	GE	5530205M	501/522						-				
M-6	GD	5530206M	201/202					59,274	59,274	245,269			
	GD	5530206M	501/522					152,508	152,508				
	GE	5530206M	201/202					8,677	8,677				
	GE	5530206M	501/522					24,810	24,810				
M-7	GD	5530207M	201/202						-				
	GD	5530207M	501/522						-				
	GE	5530207M	201/202						-				
	GE	5530207M	501/522						-				
COLT-PIELSTICK													
M-8	GD	5530208M	201/202						-	269,121	269,121	269,121	269,121
	GD	5530208M	501/522						-				
	GE	5530208M	201/202						-				
	GE	5530208M	501/522						-				
M-9	GD	5530209M	201/202					129,716	129,716				
	GD	5530209M	501/522					94,717	94,717				
	GE	5530209M	201/202					5,967	5,967				
	GE	5530209M	501/522					38,721	38,721				
*	GD	5530209M	201/202				Gear repair.	102,830					
*	GD	5530209M	501/522				Gear repair.	70,163					

* DENOTES EXPENSES NOT NORMAL TO THIS TYPE OF UNIT OVERHAUL.
THESE EXPENSES WERE LISTED IN TOTAL OVERHAUL COST BUT WERE NOT INCLUDE IN CALCULATING NORMAL OVERHAUL EXPENSE.

MAALAEA POWER PLANT
(GD/GE) NONLABOR OVERHAUL EXPENSES
FIS REPORT WP-101

		ACTIVITY	COST TYPE	1995	1996	1997	1998	1999	TOTAL	TOTAL NONLABOR OVHL COST	AVERAGED NONLABOR OVHL COST	AVERAGE TOP/MAJOR OVERHAUL	AVERAGE COMBINED OVERHAUL
MITSUBISHI-MAN					(TOP)	(MAJOR)	(TOP)					(TOP)	
M-10	GD	5530210M	201/202		281,828	168,466	210,535	122,962	783,790	1,115,422	282,676	379,946	355,427
	GD	5530210M	501/522		2,165	184,360	15,297	113,469	315,292				
	GE	5530210M	201/202			10,303	3,585	657	14,545				
	GE	5530210M	501/522			1,644	151		1,794				
					(TOP)		(MAJOR)					(MAJOR)	
M-11	GD	5530211M	201/202		259,565		181,653		441,219	628,134	314,067	443,599	
	GD	5530211M	501/522		58,140		105,240		163,380				
	GE	5530211M	201/202		9,126		8,547		17,673				
	GE	5530211M	501/522		115		5,747		5 862				
	* GD	5530211M	201/202		50,264	Water damage							
	* GD	5530211M	501/522		160,000	Foundation Repair							
				(MAJOR)		(TOP)		(MAJOR)					
M-12	GD	5530212M	201/202	288,333	61,487	327,317		201,804	878,941	1,326,821	442,273.57		
	GD	5530212M	501/522	115,800		80,227		149,287	345,314				
	GE	5530212M	201/202	4,705		8,074		8,142	20,921				
	GE	5530212M	501/522	526		61,071		20,049	81,645				
	* GD	5530212M	501/522	141,227	Foundation Repair								
	* GD	5530212M	201/202					302,231	T/C replacement				
	* GD	5530212M	501/522					58,113	T/C replacement				
	* GD	5530212M	201/202					97,420	Fuel injection plungers/sleeves				
	* GD	5530212M	201/202					83,757	Piston/Rod replacement				
					(MAJOR)		(TOP)	(MAJOR)					
M-13	GD	5530213M	201/202		244,391		218,536	deferred	462,927	763,387	382,694		
	GD	5530213M	501/522		160,597		56,305	to	216,902				
	GE	5530213M	201/202		9,098		12,965	2000	22,063				
	GE	5530213M	501/522		3,856		57,640		61,496				
	* Foundation Repair (GD 5530213M)				160,000								

* DENOTES EXPENSES IN YEAR NOT NORMAL TO THIS TYPE OF UNIT OVERHAUL.
THESE EXPENSES WERE LISTED IN TOTAL OVERHAUL COST BUT WERE NOT INCLUDE IN CALCULATING NORMAL OVERHAUL EXPENSE.

(GD/GE) NONLABOR OVERHAUL EXPENSES
FIS REPORT WP-101

		ACTIVITY	COST TYPE	1995	1996	1997	1998	1999	TOTAL	TOTAL NONLABOR OVHL COST	AVERAGED NONLABOR OVHL COST	AVERAGE TOP/MAJOR OVERHAUL	AVERAGE COMBINED OVERHAUL
G.E. LM2500 - COMBUSTION TURBINE (HOT SECTION)													
M-14	GD	5530214M	201/202	17,490	1,123	2,475			21,088	2,004,176	1,008,533	914,655	914,655
	GD	5530214M	501/522	799,503	4,328	711,373		467,884	1,983,088				
	GE	5530214M	201/202	12,890					12,890				
	GE	5530214M	501/522						-				
*	GD	5530214M	501/522			220,000	Turbine Midframe (S&S Services, 3/21)						
M-16	GD	5530216M	201/202		94,873	115,410		9,317	219,600	2,409,495	820,776		
	GD	5530216M	501/522		760,000	671,269		758,626	2,189,895				
	GE	5530214M	201/202					907	907				
	GE	5530214M	501/522					1,358	1,358				
*	GD	5530216M	501/522			187,000	Turbine Midframe (Turbine Technologies, 11/22)						
G.E. LM2500 - COMBUSTION TURBINE (LPT REPAIR)													
M-14	GA	5530214M	501/522		132,617				132,617	947,005	473,503	526,548	526,548
	GD	5530314M	501/522		202,295			612,093	814,388				
M-16	GD	5530216M	501/522		504,244			654,944	504,244	1,159,188	579,594		
G.E. LM2500 - 50,000 HR. OVERHAUL													
M-14	GD	5530214M	201/202					7,986	7,986	1,194,155	1,061,386	1,061,386	1,061,386
	GD	5530214M	501/522					1,150,522	1,150,522				
	GE	5530214M	201/202					19,191	19,191				
	GE	5530214M	501/522					16,457	16,457				
*	GD	5530214M	501/522					467,884	Hot Section				
*	GD	5530214M	501/522					612,093	LPT Repair				
M-16	GD	5530216M	201/202						-	928,616			
	GD	5530216M	501/522					928,616	928,616				
	GE	5530214M	201/202						-				
	GE	5530214M	501/522						-				
*	GD	5530216M	501/522					749,599	Hot Section				
*	GD	5530216M	501/522					654,944	LPT Repair				
STEAM TURBINE OVERHAUL MAINT													
M-15	GD	5532215M	201/202					deferred					55,590
	GD	5532215M	501/522					to					
	GE	5532215M	201/202					2000					
	GE	5532215M	501/522										

* DENOTES EXPENSES IN YEAR NOT NORMAL TO THIS TYPE OF UNIT OVERHAUL.
THESE EXPENSES WERE LISTED IN TOTAL OVERHAUL COST BUT WERE NOT INCLUDE IN CALCULATING NORMAL OVERHAUL EXPENSE.

HISTORICAL OVERHAUL EXPENSES
FIS REPORT WP-101

	ACTIVITY	COST TYPE	1995	1996	1997	1998	1999	TOTAL NONLABOR	AVERAGE OVHL COST
LANAI - LANAI CITY/MIKI BASIN POWER PLANT (GL) NON-LABOR OVERHAUL EXPENSES									
LL1	55305LL2	201/202	-	-	-	-	-	222,054	74,018
	55305LL2	501	-	-	-	-	-	-	-
LL2	55305LL2	201/202	-	67,989	-	-	-		
	55305LL2	501	-	396	-	-	-		
LL3	55305LL3	201/202	-	71,769	-	-	-		
	55305LL3	501	-	12,748	-	-	-		
LL4	55305LL4	201/202	-	68,425	-	-	-		
	55305LL4	501	-	727	-	-	-		
LL5	55305LL5	201/202	-	-	-	-	-		
	55305LL5	501	-	-	-	-	-		
LL6	55305LL6	201/202	-	-	-	-	-		
	55305LL6	501	-	-	-	-	-		
							(Initial Insp)		
LL7	55305LL7	201/202	-	-	-	-	2,874	159,560	79,780
	55305LL7	501	-	-	-	-	74,545	-	-
							(Initial Insp)		
LL8	55305LL8	201/202	-	-	-	-	59,098	-	-
	55305LL8	501	-	-	-	-	23,043	-	-
MOLOKAI - PALAAU POWER PLANT (GT) NONLABOR OVERHAUL EXPENSES									
CAT1	55308T1M	201/202	16	333	-	-	-	110,953	55,477
	55308T1M	501	95	73,799	-	-	-		
CAT2	55308T2M	201/202	(549)	206	-	-	-		
	55308T2M	501	119	36,934	-	-	-		
CUM3	55308T3M	201/202	59	-	-	-	-	181,442	45,361
	55308T3M	501	43,670	-	-	-	-		
CUM4	55308T4M	201/202	1,487	-	-	-	-		
	55308T4M	501	43,592	-	-	-	-		
CUM5	55308T5M	201/202	-	-	-	-	-		
	55308T5M	501	4,736	45,388	-	-	-		
CUM6	55308T6M	201/202	1,053	-	-	-	-	-	-
	55308T6M	501	41,457	-	-	-	-	-	-
						(Initial Insp)			
CAT7	55308T7M	201/202	-	-	-	0	-	-	-
	55308T7M	501	-	-	-	72,178	-	226,517	75,506
							(Initial Insp)		
CAT8	55308T8M	201/202	-	-	-	-	0		
	55308T8M	501	-	-	-	-	77,524		
							(Initial Insp)		
CAT9	55308T9M	201/202	-	-	-	-	0		
	55308T9M	501	-	-	-	-	76,815		
GT1	55308TAM	201/202	-	-	-	-	-		-
	55308TAM	501	-	-	-	-	-		191,000

CA-IR-85

Ref: MECO-WP-504-d, (NOX Water Costs).

This workpaper calculates NOX Water Costs as a ratio of fuel burn quantities. Please provide the following information with respect to these calculations:

a. Provide a description of the specific types and quantities of chemicals and other material costs (EE=201) incurred historically by MECO and included in the 2007 budget for NOX water.
b. Provide a description of the specific types and quantities of outside services costs (EE=501) incurred historically by MECO and included in the 2007 budget for NOX water.
c. Provide an expanded calculation including 2006 actual cost and fuel burn data, in the format of WP-504-d.
d. Please explain how the new EDI unit will impact historically incurred cost levels, quantifying how the prior years' chemical and resin costs reflected in WP-504-d are expected to be impacted.

MECO Response:

a. Material costs (EE=201) incurred historically by MECO and included in the 2007 budget for nox water include pumps, motors, valves, controls, filters, seals, membrane housings, and several chemicals (primarily sulfuric acid and caustic).

b. Outside service costs (EE=501 incurred historically by MECO and included in the 2007 budget for nox water include Ecell stack upgrades/replacements, nox water pump rebuilds, and water treatment piping repairs and modifications.

c. WP-504-d has been updated to include actual costs and fuel burn data through May 2007 (see page 3 of this response). The resulting calculation indicates a -$4,495 total adjustment to the 2007 test year budget compared to a +$44,830 initial result. The primary reason for the difference is the low actual cost incurred in 2006. In 2006 MECO replaced seven Ecell stacks with an eight stack system at a material cost of $72,841. Because the replacement was considered an upgrade, the costs were capitalized, and therefore do not show up as O&M. Normally Ecell stack replacements are treated as O&M. Compared to the older

demineralization technology water treatment systems, the O&M costs for Ecell systems occur over a much longer interval; with the often occurring large chemical purchases replaced by more sporadic Ecell replacements. In 2006 MECO maintained the water treatment systems at a minimal level to reduce O&M costs during that year. The 2007 nox water costs incurred through May are approximately $99K as shown on page 3 of this response. MECO expects these costs to approach the adjusted test year budget ($293K) by the end of 2007 and average this amount in the next several years.

d. The first EDI unit (Ecell stacks) was installed in August 2000. By 2001 MECO was operating the EDI unit as the primary water purification method. The older demineralization technology systems (Osmonics and Glegg) remain functional and serve as back-up to the EDI unit. These demineralization systems are operated approximately 8 hours per week to insure their reliability. Later in 2007 MECO plans to retire the Osmonics system and replace it with a second EDI unit. The reason for the second EDI unit is increased reliability and increased need for purified water (due to increased running hours on the combustion turbines). The Glegg system will continue to serve as a back-up. The 2003 – 2005 historical cost levels indicated in MECO-WP-504-d were used to determine the test year estimate for nox water. The nox water purification technology used by MECO since 2001 remains the same; therefore costs derived in the original MECO-WP-504-d are expected to be representative of future years.

MECO-WP-504-d (Updated for CA-IR-85)
NOX WATER BUDGET ADJUSTMENT
MAALAEA POWER PLANT
Generating Units M14,16,17,19
Naruc Acct: PROD MAINT 554
Naruc Acct: PROD OPER 546

Situation: The 2007 Operating Budget for nox water expense was inadvertantly based on units M17 and M19 operating in peaking and cycling mode as they did prior to M18 coming on line. With M18 in operation, half the dual train will operate baseloaded and the other half cycling, which will result in higher nox water costs.

Operating Budget - NOX Water Costs ($)[1]:

Act	RA	Loc	Ind	EE	2003	2004	2005	2006	2007 (thru May)	2007 Operating Budget	Acct Blk	NARUC
875	MGC	MWT	NE	201	98,089	95,449	91,482	33,548	62,612	83,691	Prod Maint	554
875	MGC	MWT	NE	205	2,075	2,079	1,967	114	67	2,040	Prod Maint	554
875	MGC	MWT	NE	401	-	-	-	-	-	9,742	Prod Maint	554
875	MGC	MWT	NE	501	79,129	20,915	4,304	-	17,999	34,783	Prod Maint	554
875	MGM	MWT	NE	201	109,427	161,567	58,689	61,670	17,865	105,872	Prod Oper	546
875	MGM	MWT	NE	205	137	-	-	-	-	-	Prod Oper	546
875	MGM	MWT	NE	401	-	-	-	-	-	12,324	Prod Oper	546
				Totals =	288,857	280,010	156,442	97,338	98,543	248,452		
'03-'07 total Nox Water Cost ($)[3] =					921,190							

FUEL BURN (Bbls.)[2]

UNIT	2003	2004	2005	2006	2007 (thru May)	2007 TY
14	328,714	316,246	321,046	320,806	124,345	295,094
16	302,866	324,565	316,827	344,035	110,362	283,324
17	79,465	114,227	126,794	158,496	116,242	325,186
19	146,529	151,036	159,740	158,071	83,982	141,549
	857,574	906,074	924,407	981,408	434,932	1,045,153

'03-'07 Total Burn (Bbls)[3] =		4,104,394	bbls.
'03-'07 ave. Nox Water Cost/Bbl.[3] =	$	0.2244	; ($921,190 / 4,104,394)
'07 Nox Water Cost/Bbl. =	$	0.2334	(.2244 x 1.04 escalation factor, 2005 base year)
Adjusted '07 Nox Water Cost ($) =	$	243,957	; ('07 fuel burn x '07 cost/bbl)
'07 Total Budget Adjustment ($) =	$	(4,495)	; ($243,957 - $248,452)

Adjusted Operating Budget - NOX Water Costs ($):

Act	RA	Loc	Ind	EE	2007 Operating Budget	Adjustments	2007 Test Year Estimate	Acct Blk	NARUC	NARUC ADJ.
875	MGC	MWT	NE	201	83,691	(1,514)	82,177	Prod Maint	554	
875	MGC	MWT	NE	205	2,040	(37)	2,003	Prod Maint	554	
875	MGC	MWT	NE	401	9,742	(176)	9,566	Prod Maint	554	
875	MGC	MWT	NE	501	34,783	(629)	34,154	Prod Maint	554	(2,357)
875	MGM	MWT	NE	201	105,872	(1,915)	103,957	Prod Oper	546	
875	MGM	MWT	NE	205	-	-	-	Prod Oper	546	
875	MGM	MWT	NE	401	12,324	(223)	12,101	Prod Oper	546	(2,138)
				Totals =	248,452	(4,495)	243,957			(4,495)

Note 1: Source is MECO-WP-502, lines 8873-8881 and 1679-1686.
Note 2: Source of the '03-'07 actual fuel burn numbers is MECO's Monthly Availability/Reliability Reports. Source of the '07 fuel burn estimate is MECO-WP-404, p.2, part of Mr. Sakuda's T4 testimony.
Note 3: 2007 numbers are thru May.

CA-IR-86

Ref: MECO-WP-504-e, WP-509-a, b, c (Lube Oil Expenses).

Please provide the following information with respect to lube oil expenses:

a. A detailed description of each type of lube oil that is needed for individual units operated at each generating station.

b. Annual historical lube oil quantities consumed for oil changes and for operational usage, by type of oil and by station for each year 2003 through 2006 and for 2007 actual, to date.

c. Annual dollar costs of historical lube oil consumed for oil changes and for operational usage, by type of oil and by station for each year 2003 through 2006 and for 2007 actual, to date.

d. Provide copies of documentation relied upon for lube oil unit prices included in test year expense by MECO.

e. Explain whether MECO purchases lube oil at market prices or pursuant to any term or contract pricing.

f. Provide copies of documentation supporting the most recent actual prices paid for each type of lube oil used by MECO.

MECO Response:

a. Lube oil descriptions have been provided in the lube oil expense in MECO-WP-509 for the years 2003-2005. Chevron Taro Oil was used between 2003 and 2005 in a demonstration project on unit M12 . During the demonstration project 20,114 gallons of Chevron Taro Oil was given to MECO at no cost by the manufacturer. MECO reverted back to the use of Mobilgard ADL for this unit at the Maalaea Power Plant in 2005. Mobilgard DTE light and medium have been combined. Both lube oils are the same price.

b. Recorded lube oil consumption for oil changes and operational usage was supplied in MECO-WP-509 for the years 2003-2005. Updates to April 30, 2007 is supplied in Attachment 1. It should be noted that Chevron GST 32 lube oil was supplied by the contractor of M18 instead of Mobilgard DTE. MECO has been using the supply of GST

32 left over from construction so no lube oil expenses have been applied to this unit. MECO plans to change from GST 32 to Mobilgard DTE at the first steam turbine maintenance interval which will occur in two years with the inspection of the bearing journals. No purchase of Chevron GST 32 has been made at Maalaea Generating Station for unit M18 todate.

c. MECO keeps track of lube oil with other lubricants at each Power Generation Station. The account used to collect expenses at each generating station include lube oil as well as other lubricants such as grease. The listing of individual lube oil expenses is provided as Attachment 2.

d. Information used for the lube oil forecast is provided as Attachment 3.

e. MECO purchases lube oil at market prices.

f. Copies of the latest lube oil invoices are provided as Attachment 4.

Confidential Information Deleted
Pursuant to Protective Order No. 23379

CA-IR-86
DOCKET NO. 2006-0387
ATTACHMENTS 1-4

Attachments 1-4 are confidential and will be provided pursuant to Protective Order No. 23379, dated April 23, 2007.

CA-IR-87

Ref: MECO-WP-504-f and WP-504-g, (Maalaea/Palaau Structural Maintenance).

Please provide the following information associated with structural maintenance:

a. Update WP-504-f and 504-g (pages 1 and 2) to include a full year of 2006 actual expenditures.
b. Explain historical actual activities for "out of service" tank inspections, indicating the dates and costs for the most recent tank inspections actually performed at Palaau and Maalaea.
c. Explain historical actual activities for tank farm painting (Note 4 on WP-504-g), indicating the dates and costs for the most recent painting actually performed at Palaau and Maalaea.
d. Describe the work done and costs incurred noted on WP-504-f, page 2 as NARUC 552 MGD 271 MTF NE 501 in the amount of $117,981.

MECO Response:

a. WP-504-f and WP-504-g have been updated to include a full year of 2006 actual expenditures. Please refer to pages 3-5 of this response.

b. The two Palaau tanks were constructed in 1996 and technically should have been first inspected in 2006. Because the tanks are still relatively new, the first inspection for these tanks was deferred to 2008.

   At Maalaea, Tank A, Tank B, and Tank 3A were taken out of service and inspected in 2007. The total cost for Tanks A,B (cleaning + inspection) was $47,793 ($23,896/per tank). The final invoices for Tank 3A have not been received, but the estimated total cost is $37,143. Tank 1A and Tank 2A will be inspected later in 2007. Tank 4A is scheduled for inspection in 2008.

c. The Palaau tank farm painting (indicated in Note 4 on WP-504-g) was performed in September – December 2004 at a cost of $47,840. This was the first major painting of the Palaau tank farm constructed in 1996. Going forward MECO estimates this work will have to be redone approximately every six years.

At Maalaea, painting in the tank farm has been performed on the tanks, equipment, and structures on a piece-by piece basis as necessary.

d. The 2002 work done in the amount of $117,981 was for replacement of a portion of the bulk fuel tank berm liner and repair of another portion. In 2008 additional berm liner replacement work is planned.

Maalaea Power Plant
Structural Maintenance (Test Year Normalization Adjustment)
Naruc Acct: MAINT STRUC-OTHER PRD 552 (Maintain Structures)

Acct Blk Descr	NARUC	RA	Act	Loc	Ind	EE	2001 Actuals	2002 Actuals	2003 Actuals	2004 Actuals	2005 Actuals	2006 Actuals (thru June)	2006 Actuals	2007 Operating Budget
Prod Maint	552	MGA	265	MNS	NE	201	-	-	-	-	-			-
Prod Maint	552	MGC	263	MNS	NE	201	-	-	1,880	819	1,020	74	232	1,222
Prod Maint	552	MGC	265	MNS	NE	201	-	-	-	377	-			-
Prod Maint	552	MGC	269	MNS	NE	201	-	-	4,411	7,844	8,275	5,069	5,790	6,065
Prod Maint	552	MGC	271	MNS	NE	201	-	-	5,749	6,008	416		325	3,637
Prod Maint	552	MGD	263	MNS	NE	201	23,277	43,430	32,190	13,302	3,631	5,472	12,140	14,424
Prod Maint	552	MGD	263	X00	NE	201	-	-	-	-	-			-
Prod Maint	552	MGD	265	MNS	NE	201	61,475	81,527	84,048	47,831	67,883	33,409	68,526	58,656
Prod Maint	552	MGD	265	X00	NE	201	-	-	-	-	-			-
Prod Maint	552	MGD	271	MNS	NE	201	2,087	3,673	4,889	398	111	38	247	2,055
Prod Maint	552	MGD	271	MTF	NE	201	312	-	400	-	283	159	376	-
Prod Maint	552	MGE	263	MNS	NE	201	-	-	-	3,969	9,490	2,028	3,895	-
Prod Maint	552	MGE	263	X00	NE	201	-	-	-	-	-			-
Prod Maint	552	MGE	265	MNS	NE	201	20,281	14,717	5,856	8,538	11,363	9,134	16,715	11,882
Prod Maint	552	MGE	265	X00	NE	201	-	-	-	-	-			-
Prod Maint	552	MGE	271	MNS	NE	201	-	426	106	1,242	-			297
Prod Maint	552	MGE	271	MTF	NE	201	127	-	-	-	-			-
Prod Maint	552	MGM	263	MNS	NE	201	2,941	3,994	-	-	2,117		149	1,351
Prod Maint	552	MGM	269	MTF	NE	201	-	-	1,476	9,443	9,596	2,633	9,219	8,791
Prod Maint	552	MGC	263	MNS	NE	205	-	-	-	177	267	21	21	-
Prod Maint	552	MGC	265	MNS	NE	205	-	-	-	283	-			-
Prod Maint	552	MGC	269	MNS	NE	205	-	-	-	-	124			-
Prod Maint	552	MGC	271	MNS	NE	205	-	-	212	-	-			-
Prod Maint	552	MGD	263	MNS	NE	205	32,157	28,995	30,622	22,578	24,904	28,320	47,690	26,035
Prod Maint	552	MGD	265	MNS	NE	205	22,355	12,417	9,641	7,481	7,998	1,795	5,674	8,373
Prod Maint	552	MGD	271	MNS	NE	205	-	915	-	216	-			-
Prod Maint	552	MGD	271	MTF	NE	205	-	-	121	-	-		125	-
Prod Maint	552	MGD	932	MNS	NE	205	-	-	146	18	125		126	-
Prod Maint	552	MGE	263	MNS	NE	205	-	-	-	211	311	366	376	-
Prod Maint	552	MGE	265	MNS	NE	205	188	-	220	531	652	454	1,265	-
Prod Maint	552	MGM	263	MNS	NE	205	20	-	-	-	-			-
Prod Maint	552	MGC	263	MNS	NE	401	-	-	-	-	-			142
Prod Maint	552	MGC	269	MNS	NE	401	-	-	-	-	-			704
Prod Maint	552	MGC	271	MNS	NE	401	-	-	-	-	-			422
Prod Maint	552	MGD	263	MNS	NE	401	-	-	-	-	-			1,675
Prod Maint	552	MGD	263	X00	NE	401	-	-	-	-	-			-
Prod Maint	552	MGD	265	MNS	NE	401	-	-	-	-	-			6,810
Prod Maint	552	MGD	265	X00	NE	401	-	-	-	-	-			-
Prod Maint	552	MGD	271	MNS	NE	401	-	-	-	-	-			239
Prod Maint	552	MGE	263	X00	NE	401	-	-	-	-	-			-
Prod Maint	552	MGE	265	MNS	NE	401	-	-	-	-	-			1,380
Prod Maint	552	MGE	265	X00	NE	401	-	-	-	-	-			-
Prod Maint	552	MGE	271	MNS	NE	401	-	-	-	-	-			34
Prod Maint	552	MGM	263	MNS	NE	401	-	-	-	-	-			157

Acct Blk Descr	NARUC	RA	Act	Loc	Ind	EE	2001 Actuals	2002 Actuals	2003 Actuals	2004 Actuals	2005 Actuals	2006 Actuals (thru June)	2006 Actuals	2007 Operating Budget
Prod Maint	552	MGM	269	MTF	NE	401	-	-	-	-	-			1,021
Prod Maint	552	MGA	265	MNS	NE	501	-	-	-	-	-			-
Prod Maint	552	MGC	263	MNS	NE	501	-	-	2,028	6,353	3,973	3,762	7,672	6,760
Prod Maint	*552*	*MGC*	*265*	*MNS*	*NE*	*501*	-	-	-	*2,280*	*(2,280)*			-
Prod Maint	552	MGD	263	MNS	NE	501	15,281	18,141	13,986	69,197	22,809	10,605	21,037	25,710
Prod Maint	552	MGD	265	MNS	NE	501	38,891	40,790	19,165	5,330	9,538	5,970	9,979	31,344
Prod Maint	552	MGD	271	MNS	NE	501	-	-	16,988	-	-			-
Prod Maint	552	MGD	271	MTF	NE	501	-	117,981	-	-	-			-
Prod Maint	552	MGE	263	MNS	NE	501	8,667	7,942	6,256	3,184	8,297	4,152	8,062	8,297
Prod Maint	552	MGE	265	MNS	NE	501	-	-	-	5,335	-			-
Prod Maint	552	MGM	263	MNS	NE	501	9,135	11,019	10,833	51,871	(1)	203	201	12,674
Prod Maint	552	MGM	265	MNS	NE	501	-	-	-	115	-			-
Prod Maint	552	MGM	269	MTF	NE	501	-	9,100	1,590	14,343	-	983	983	5,124
Prod Maint	552	MGM	891	MNS	NE	502	-	-	7	-	-			-
Prod Maint	552	MGA	891	MNS	NE	522	317	129	3,526	-	-			-
Prod Maint	552	MGD	891	MNS	NE	522	-	-	539	-	-			-
Prod Maint	552	MGM	891	MNS	NE	522	-	7	21	-	-			-
Prod Maint	552	MGD	265	MNS	NE	550	-	-	127	-	-			-
						Annual TOTALS =	237,511	395,203	257,033	289,274	190,902	114,647	220,825	245,281
						Average annual recorded costs (2001-2005) =	273,985							

Tank A and B inspection cost [1,2] =	12,896
Tank 1A,2A inspection cost [1,2] =	16,000
Tank 3A,4A inspection cost [1,2] =	20,000
Tank A + B cleaning costs [1,3] =	28,501
Tank 1A + 2A cleaning costs [1,3] =	36,000
Tank 3A + 4A cleaning costs [1,3] =	45,908
Tank cleaning/inspection costs (req. every ten years) [1] =	159,305
Normalized Tank Inspection costs =	15,931
2007 Operating Budget =	245,281
Average Annual Expense (2001-2005) =	273,985
Normalized Tank Inspection costs =	15,931
Normalized Test Year Budget =	289,915
Test Year Normalization Adjustment for Maalaea Power Plant Structural Maint =	**44,634**

NOTES:

(1) Every ten years an "out-of-service" tank inspection is required on each of the six Maalaea Power Plant bulk fuel oil tanks. The normalization calculation presented here is based on a contractor quotations (included herein, see notes 3,4). Tanks A and B can be cleaned/inspected together as one project. Tanks 1A, 2A, 3A, and 4A have to be cleaned/inspected individually as separate projects because we can not have more than one of these tanks out of service at the same time. Prior to inspection, the tanks must be cleaned internally (pressure washed) and the wash water/sludge must be properly disposed of. The contractor estimates are based on the work being performed without delays, problems, excess residual fuel and excess sludge/grit. Standby time, out-of-scope work, and any repairs required as a result of the inspections is not included in these estimates.

(2) See MECO-WP-504-f, pages 3-5 for Caliber Inspections quotation.

(3) See MECO-WP-504-f, pages 6-8 for PSC's tank cleaning quotation.

Source: MECO-WP-502, lines 5178-5509

Palaau Power Plant

Structural Maintenance (Test Year Normalization Adjustment)

Naruc Acct: MAINT STRUC-OTHER PRD 552M Mol (Maintain Structures)

Acct Blk Descr	NARUC	RA	Act	Loc	Ind	EE	2001 Actuals	2002 Actuals	2003 Actuals	2004 Actuals	2005 Actuals	2006 Actuals (thru June)	2006 Actuals	2007 Operating Budget
Prod Maint	552M	MGB	265	GNS	NE	201	-	187	-	-	-			-
Prod Maint	552M	MGL	265	GNS	NE	201	-	-	-	-	-			-
Prod Maint	552M	MGT	263	GNS	NE	201	-	-	1,341	-	-			-
Prod Maint	552M	MGT	265	GNS	NE	201	2,464	2,043	517	836	4,621	2,165	2,710	2,577
Prod Maint	552M	MGT	271	GNS	NE	201	1,922	767	764	2,528	186	389	389	-
Prod Maint	552M	MGT	271	GTF	NE	201	-	-	-	-	-			978
Prod Maint	552M	MGT	932	GNS	NE	201	-	-	-	-	-	1,084	1,084	-
Prod Maint	552M	MGB	265	GNS	NE	205	111	22	14	-	-			-
Prod Maint	552M	MGT	263	GNS	NE	205	-	178	349	4,322	-			-
Prod Maint	552M	MGT	265	GNS	NE	205	1,985	1,409	1,086	590	680	173	553	1,195
Prod Maint	552M	MGT	271	GNS	NE	205	-	31	-	52	-			-
Prod Maint	552M	MGT	265	GNS	NE	401	-	-	-	-	-			299
Prod Maint	552M	MGT	271	GTF	NE	401	-	-	-	-	-			114
Prod Maint	552M	MGT	263	GNS	NE	501	234	159	112	47,953 [4]	109	129	249	109
Prod Maint	552M	MGT	265	GNS	NE	501	1,940	-	260	-	-	11	11	-
Prod Maint	552M	MGT	271	GNS	NE	501	-	-	-	-	-			-
Prod Maint	552M	MGT	932	GNS	NE	501	-	-	500	-	-			-
						Annual TOTALS [5] =	8,656	4,796	4,943	56,281	5,596	3,951	4,996	5,272

Average annual recorded costs (2001-2005): 16,054

Tank 1 and 2 Inspection cost [1,2] =	16,000
Tank 1 and 2 cleaning costs [1,3] =	30,000
Tank Inspection costs (req. every ten years) [1] =	46,000
Normalized Tank Inspection costs [1] =	4,600
2007 Operating Budget =	5,272
Average Annual Expense (2001-2006) =	16,054
Normalized Tank Inspection costs =	4,600
Test Year Normalization Adjustment for Palaau Power Plant Structural Maint.: =	**15,382**

NOTES:

(1) Every ten years an "out-of-service" tank inspection is required on each of the two Palaau Power Plant bulk fuel oil tanks. The normalization calculation presented here is based on a contractor quotations (included herein, see notes 3,4). Prior to inspection, the tanks must be cleaned internally (pressure washed) and the wash water/sludge must be properly disposed of. The contractor estimates are based on the work being performed without delays, problems, excess residual fuel and excess sludge/grit. Standby time, out-of-scope work, and any repairs required as a result of the inspections is not included in these estimates.

(2) See MECO-WP-504-f, pages 3-5 for Caliber Inspections quotation.

(3) See MECO-WP-504-f, pages 6-8 for PSC's tank cleaning quotation.

(4) In 2004 $47,840 was spent to to paint the tank farm and associated equipment. MECO estimates that going forward this work will have to be redone approximately every six years.

(5) SOURCE: MECO-WP-502, pages 5545-5602

CA-IR-88

Ref: MECO T-5, page 13, line 26; pages 36-40 – (Production Operations Labor).

According to the testimony, "The labor portion of this forecast is based upon our estimate of the work requirements. Specifically, the staffing required to operate and supervise MECO's generating facilities." Please provide the following information:

a. Actual staffing levels (headcounts) in each production operations RA, by position for each calendar quarter of 2004, 2005, 2006 and 2007, to-date.

b. Comparable test year proposed staffing levels in each production operations RA, by position.

c. Actual incurred straight time and overtime labor hours for each labor category (each line item) of your response to part (a) of this information request for each calendar quarter of 2004, 2005, 2006 and comparable hours data included in the Company's test year 2007 rate case forecast.

d. To the extent historical quarterly actual staffing levels in your response to part (a) of this information request are significantly below the test year proposed staffing levels, please explain and quantify whether staffing shortages were "made up" by expanded overtime, with reference to the information in your response to part (c) of this information request where such hours can be observed.

e. To the extent historical quarterly actual staffing levels in your response to part (a) of this information request are significantly below the test year proposed staffing levels, and staffing shortages were not "made up" by expanded overtime, please explain and quantify whether work levels were significantly different historically.

f. To the extent historical actual quarterly labor hours in your response to part (c) of this information request are significantly below the Company's projected test year straight time and overtime labor hours, please explain and quantify the amounts of any contract labor or outside services in each quarter that was required to "make up" for staffing shortages.

g. If your response to part (f) of this information request is that no identifiable contract labor or outside services were required to make up for labor shortfalls, please explain and quantify whether work levels were significantly different historically, in comparison to test year levels.

MECO Response:

a. Actual staffing levels by position and production operations RA for each calendar quarter from 2004 to June 8, 2007 are shown in Attachment 1 of this response.

b. Comparable test year proposed staffing levels by position for each production operations RA are shown on Attachment 1 of this response.

c. Please refer to CA-IR-88 Attachment 2 for the actual incurred straight time and overtime labor hours for each labor category for each calendar quarter of 2004, 2005, 2006 and comparable hours data included in the Company's test year 2007 rate case forecast. Unfortunately, this spreadsheet is not broken down between the Operations and Maintenance accounts because our payroll system is not capable of running any reports on this level of detail. Although we could get a breakdown of total costs hours between operations vs. maintenance out of our financial system, Hyperion Pillar, the time periods would not be the same as the payroll data, and what comes out of Pillar would not distinguish between straight time and overtime (which is essentially the point of using standard labor rates).

d. Staffing levels were not significantly below the test year proposed staffing levels. When staffing level shortages existed these shortages were made up by expanded overtime.

e. Staffing levels are not significantly below the test year proposed staffing levels. All work was made up and completed by expanded overtime as indicated in part d.

f. Historical quarterly labor hours information is not available at this time as mentioned in part c, only annual information was provided as indicated in part c. Based on annual straight and overtime hours that were available at this time, no contract labor or outside services were required to make up for staffing shortages.

g. Historical and test year work levels were the same, no contract or outside services were required to make up for labor shortfalls. Work levels at MPP have changed slightly due to changes in unit operations, for example, operating hours thru May 2007 as compared to the same time period for 2006 shows that the dual train combined cycle (DTCC) plant area has seen significant increase in operating hours of approximately 39% and the diesel internal combustion engine side (ICE) has seen a decrease of approximately 40%. These changes are mainly due to the addition of unit M18 and addition of KWP windfarm. The increased operating hours in the DTCC plant causes an increase in work levels in this area, while the decrease in operating hours in the ICE side causes a decrease in work levels in this area. Thus, work levels in the test year are approximately the same as compared to historical levels.

Maui Electric Company, Limited

PRODUCTION OPERATIONS
Employee Staffing

Position	RA	2004 Actual 1st Qtr	2004 Actual 2nd Qtr	2004 Actual 3rd Qtr	2004 Actual 4th Qtr	2005 Actual 1st Qtr	2005 Actual 2nd Qtr	2005 Actual 3rd Qtr	2005 Actual 4th Qtr	2006 Actual 1st Qtr	2006 Actual 2nd Qtr	2006 Actual 3rd Qtr	2006 Actual 4th Qtr	2007 Actual 1st Qtr	2007 Actual As of 6/8/07	2007 Test Year
Administration	GA															
Manager, Power Supply		1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Station Manager, Kahului		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Station Manager, Maalaea		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Staff Engineer		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Renewable Engineer		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
Environmental Specialist		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AdministrativeCoordinator		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Budget Analyst		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Statistical Clerk		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Plant Aide		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		11	11	11	11	11	11	11	11	11	11	13	12	12	12	12
Kahului Power Plant	GK															
Shift Supervisor		4	4	3	4	4	5	4	4	3	4	4	4	4	4	4
Turbine & Switchboard Operator		6	6	7	6	5	5	6	7	7	6	6	5	4	5	6
Boiler Operator		4	4	3	4	4	4	3	2	4	3	4	4	4	4	4
Junior Boiler Operator		4	4	4	4	5	5	5	5	4	4	4	4	4	4	4
Senior Operator Helper		1	1	1	0	0	0	1	1	1	1	1	1	1	0	1
Operator Helper		2	3	3	4	5	5	3	5	3	3	2	3	6	5	2
		21	22	21	22	23	24	22	24	22	21	21	21	23	22	21
Miki Basin Power Plant	GL															
Diesel Operator		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Maui Electric Company, Limited

PRODUCTION OPERATIONS
Employee Staffing

Position	RA	2004 Actual 1st Qtr	2004 Actual 2nd Qtr	2004 Actual 3rd Qtr	2004 Actual 4th Qtr	2005 Actual 1st Qtr	2005 Actual 2nd Qtr	2005 Actual 3rd Qtr	2005 Actual 4th Qtr	2006 Actual 1st Qtr	2006 Actual 2nd Qtr	2006 Actual 3rd Qtr	2006 Actual 4th Qtr	2007 Actual 1st Qtr	2007 Actual As of 6/8/07	2007 Test Year
Maalaea Power Plant	GM															
Senior Shift Supervisor		1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
Shift Supervisor		4	4	4	4	4	4	4	4	4	3	4	4	4	3	4
Control & Switchboard Operator		8	8	8	8	8	8	8	8	8	8	7	7	8	7	8
Combined Cycle Operator		3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
Diesel Operator		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Assistant Plant Operator		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Senior Operator Helper		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Operator Helper		1	1	2	2	2	2	1	0	0	0	1	1	0	1	1
		29	28	30	30	30	30	30	29	29	28	29	29	29	28	30
Palaau Power Plant	GT															
Molokai Supervisor		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Chief Operator		4	4	4	4	4	4	4	4	4	4	4	3	4	4	4
Operator Helper		0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
		5	5	5	5	5	5	5	5	5	5	6	5	5	5	5
Total Production Operations		70	70	71	72	73	74	72	73	71	69	73	71	73	71	72

Maui Electric Company, Limited

Straight Time (ST), Over Time (OT) Hours
2006 Recorded by Quarter

			(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
			RECORDED									
			1st QTR		2nd QTR		3rd QTR		4th QTR		TOTAL	
Line	Dept	RA	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT
1	Power Supply	MGA	6,160.00	56.50	5,280.00	32.50	6,640.37	101.06	5,511.54	48.67	23,591.91	238.73
2	Power Supply	MGB	5,600.00	242.50	4,792.00	736.50	5,568.00	661.00	4,792.00	1,432.75	20,752.00	3,072.75
3	Power Supply	MGC	1,680.00	172.50	1,424.00	285.00	1,680.00	417.50	1,432.00	130.50	6,216.00	1,005.50
4	Power Supply	MGD	11,334.00	1,705.25	9,885.23	3,005.42	11,231.53	2,543.91	9,605.35	2,239.45	42,056.11	9,494.03
5	Power Supply	MGE	6,136.00	873.05	5,248.00	1,565.08	6,074.00	1,723.34	4,642.32	977.60	22,100.32	5,139.07
6	Power Supply	MGK	12,491.79	1,696.78	10,250.00	1,404.68	11,583.67	1,548.20	10,071.17	1,560.66	44,396.63	6,210.32
7	Power Supply	MGL	2,800.00	613.00	2,392.00	401.50	2,800.00	460.50	2,080.00	623.00	10,072.00	2,098.00
8	Power Supply	MGM	16,199.00	1,818.97	13,881.00	1,618.59	16,045.97	2,556.67	13,839.20	2,846.05	59,965.17	8,840.28
9	Power Supply	MGT	3,920.00	437.50	3,360.00	388.00	3,914.00	503.00	3,840.00	538.50	15,034.00	1,867.00
10	Power Supply		66,320.79	7,616.05	56,512.23	9,437.27	65,537.54	10,515.18	55,813.58	10,397.18	244,184.14	37,965.68

SOURCE: Payroll Recap Report

Maui Electric Company, Limited

Straight Time (ST), Over Time (OT) Hours
2005 Recorded by Quarter

			(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
			RECORDED									
			1st QTR		2nd QTR		3rd QTR		4th QTR		TOTAL	
Line	Dept	RA	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT
1	Power Supply	MGA	6,228.00	62.75	5,280.00	53.75	6,160.00	56.92	5,280.00	50.50	22,948.00	223.92
2	Power Supply	MGB	5,568.00	711.17	4,792.00	598.00	5,764.53	596.00	4,760.00	837.33	20,884.53	2,742.50
3	Power Supply	MGC	1,686.00	166.00	1,440.00	192.00	1,680.00	162.17	1,424.00	231.00	6,230.00	751.17
4	Power Supply	MGD	11,810.50	3,111.75	10,068.00	1,468.50	11,432.08	2,681.17	9,588.00	753.83	42,898.58	8,015.25
5	Power Supply	MGE	6,227.00	1,906.01	5,243.00	1,482.53	6,149.00	1,272.26	5,247.00	1,233.60	22,866.00	5,894.40
6	Power Supply	MGK	11,859.11	2,474.27	10,752.00	1,850.92	12,166.17	1,808.23	9,865.75	1,495.84	44,643.03	7,629.26
7	Power Supply	MGL	2,780.00	518.00	2,392.00	383.00	2,792.00	368.00	2,400.00	359.50	10,364.00	1,628.50
8	Power Supply	MGM	16,660.00	2,217.10	14,320.00	1,438.55	16,744.00	2,007.43	14,030.65	1,575.60	61,754.65	7,238.68
9	Power Supply	MGT	3,982.00	656.50	3,360.00	346.00	3,920.00	431.50	3,360.00	452.75	14,622.00	1,886.75
10	Power Supply		66,800.61	11,823.55	57,647.00	7,813.25	66,807.78	9,383.68	55,955.40	6,989.95	247,210.79	36,010.43

SOURCE: Payroll Recap Report

Maui Electric Company, Limited

Straight Time (ST), Over Time (OT) Hours
2004 Recorded by Quarter

			(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
			RECORDED									
			1st QTR		2nd QTR		3rd QTR		4th QTR		TOTAL	
Line	Dept	RA	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT
1	Power Supply	MGA	5,280.00	34.00	6,130.00	63.00	6,152.00	88.50	5,280.00	72.17	22,842.00	257.67
2	Power Supply	MGB	4,800.00	597.25	5,600.00	632.75	5,597.50	1,120.25	4,800.00	666.00	20,797.50	3,016.25
3	Power Supply	MGC	952.00	129.00	1,120.00	150.50	1,516.00	63.50	1,440.00	180.00	5,028.00	523.00
4	Power Supply	MGD	10,061.00	923.00	11,487.00	2,511.75	11,750.00	1,644.75	10,041.50	3,821.50	43,339.50	8,901.00
5	Power Supply	MGE	4,456.02	831.25	5,512.00	1,537.32	5,527.00	1,338.40	4,820.00	1,954.51	20,315.02	5,661.48
6	Power Supply	MGK	9,999.35	1,598.61	11,753.00	1,596.16	11,546.75	1,951.83	9,225.00	1,690.22	42,524.10	6,836.82
7	Power Supply	MGL	2,400.00	504.34	2,800.00	346.00	2,792.00	469.00	2,384.00	449.00	10,376.00	1,768.34
8	Power Supply	MGM	13,954.00	1,765.39	16,228.53	1,922.97	15,992.00	1,955.98	14,397.50	2,000.84	60,572.03	7,645.18
9	Power Supply	MGT	2,960.00	392.00	3,920.00	488.25	3,920.00	598.00	3,364.00	619.00	14,164.00	2,097.25
10	Power Supply		54,862.37	6,774.84	64,550.53	9,248.70	64,793.25	9,230.21	55,752.00	11,453.24	239,958.15	36,706.99

SOURCE: Payroll Recap Report

CA-IR-89

Ref: MECO T-5, page 21, line 5; and pages 36-40 - (Production Maintenance Labor).

According to the testimony, "Production maintenance labor expense was determined by estimating the work requirements and the staffing necessary to perform this work." Please provide the following information:

a. Actual staffing levels (headcounts) in each production maintenance RA, by position for each calendar quarter of 2004, 2005, 2006 and 2007, to-date.

b. Comparable test year proposed staffing levels in each production maintenance RA, by position.

c. Actual incurred straight time and overtime labor hours for each labor category (each line item) of your response to part (a) of this information request for each calendar quarter of 2004, 2005, 2006 and comparable hours data included in the Company's test year 2007 rate case forecast.

d. To the extent historical quarterly actual staffing levels in your response to part (a) of this information request are significantly below the test year proposed staffing levels, please explain and quantify whether staffing shortages were "made up" by expanded overtime, with reference to the information in your response to part (c) of this information request where such hours can be observed.

e. To the extent historical quarterly actual staffing levels in your response to part (a) of this information request are significantly below the test year proposed staffing levels, and staffing shortages were not "made up" by expanded overtime, please explain and quantify whether work levels were significantly different historically.

f. To the extent historical actual quarterly labor hours in your response to part (c) of this information request are significantly below the Company's projected test year straight time and overtime labor hours, please explain and quantify the amounts of any contract labor or outside services in each quarter that was required to "make up" for staffing shortages.

g. If your response to part (f) of this information request is that no identifiable contract labor or outside services were required to make up for labor shortfalls, please explain and quantify whether work levels were significantly different historically than projected in the test year.

MECO Response:

a. Actual staffing levels by position and production maintenance RA for each calendar quarter from 2004 to June 8, 2007 are shown in Attachment 1 of this response.

b. Comparable test year proposed staffing levels by position for each production maintenance RA are shown on Attachment 1 of this response.

c. Please refer to CA-IR-88 Attachment 2 for the actual incurred straight time and overtime labor hours for each labor category for each calendar quarter of 2004, 2005, 2006 and comparable hours data included in the Company's test year 2007 rate case forecast. Unfortunately, this spreadsheet is not broken down between the Operations and Maintenance accounts because our payroll system is not capable of running any reports on this level of detail. Although we could get a breakdown of total costs hours between operations vs. maintenance out of our financial system, Hyperion Pillar, the time periods would not be the same as the payroll data, and what comes out of Pillar would not distinguish between straight time and overtime (which is essentially the point of using standard labor rates).

d. Staffing levels are not significantly below the test year proposed staffing levels. When staffing level shortages existed these shortages were made up by expanded overtime.

e. Staffing levels are not significantly below the test year proposed staffing levels. With MECO's aging equipment and the need for more frequent and more extensive repairs require more emphasis for more comprehensive work plans on a daily and

during scheduled outages. While work levels vary from year-to-year based on our overhaul and preventative maintenance schedules, the work is not different from historical levels. With the increased operating hours of our combined cycle plant (CCP) units, maintenance levels have increased in this area, but internal combustion engine (ICE) maintenance will be slightly reduced with reduced operating hours. Thus, the work levels are not significantly different from the past. All work was made up by expanded overtime or outside labor services were brought in to assist on an as needed basis.

f. Historical quarterly labor hours information is not available at this time as mentioned in part c, only annual information straight and overtime hours were available at this time. Outside service labor has been recently used on our M9 and M10 overhauls in 2007 due to staffing shortages. These resources consisted of 2-3 laborers to perform unskilled tasks, such as cleaning of engine parts during the overhauls.

g. Historical and test year work levels were the same as in the prior years.

Maui Electric Company, Limited

PRODUCTION MAINTENANCE
Employee Staffing

Position	RA	2004 Actual 1st Qtr	2004 Actual 2nd Qtr	2004 Actual 3rd Qtr	2004 Actual 4th Qtr	2005 Actual 1st Qtr	2005 Actual 2nd Qtr	2005 Actual 3rd Qtr	2005 Actual 4th Qtr	2006 Actual 1st Qtr	2006 Actual 2nd Qtr	2006 Actual 3rd Qtr	2006 Actual 4th Qtr	2007 Actual 1st Qtr	2007 Actual As of 6/8/07	2007 Test Year
KPP- Boiler Maintenance	GB															
Boiler Maintenance Supervisor		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Working Foreman- Boiler Maint.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sr Boiler Maintenance Mechanic		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Boiler Maintenance Mechanic		0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
Boiler Maint. Mechanic- Apprent.		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Boiler Maint.- Sr. Helper		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Certified Comb. Welder		2	2	2	2	2	2	1	1	1	1	2	2	2	2	2
Welder		0	0	0	0	0	0	1	1	1	1	0	0	0	0	0
Machinist		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Material Coordinator		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Custodial Helper		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		10	10	10	10	10	10	10	10	10	10	10	10	10	10	11
MPP- Comb. Cycle Plant (CPP)	GC															
CCP Superviser		0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
CCP Mechanic		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
MPP- Diesel Maintenance	GD															
Diesel Maintenance Supervisor		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Working Foreman- Diesel Maint.		2	2	2	2	2	2	2	2	2	2	2	1	2	2	2
Sr. Diesel Maint. Mechanic		9	10	10	10	10	12	11	12	12	12	12	11	10	10	10
Diesel Maintenance Mechanic		4	4	4	4	4	2	2	1	1	1	0	0	1	1	1
Diesel Maint. Mech.- Sr. Helper		0	0	0	0	0	0	0	0	0	0	0	1	2	2	2
Certified Comb. Welder		1	1	1	1	1	1	1	1	1	0	0	0	0	1	1
Welder		0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
Machinist		1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Material Coordinator		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Warehouse Attendant		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		20	21	21	21	21	21	20	20	21	21	20	19	21	21	21

Maui Electric Company, Limited

PRODUCTION MAINTENANCE
Employee Staffing

Position	RA	2004 Actual 1st Qtr	2004 Actual 2nd Qtr	2004 Actual 3rd Qtr	2004 Actual 4th Qtr	2005 Actual 1st Qtr	2005 Actual 2nd Qtr	2005 Actual 3rd Qtr	2005 Actual 4th Qtr	2006 Actual 1st Qtr	2006 Actual 2nd Qtr	2006 Actual 3rd Qtr	2006 Actual 4th Qtr	2007 Actual 1st Qtr	2007 Actual As of 6/8/07	2007 Test Year
Electrical Maintenance	GE															
Electrical Maint. Supervisor		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Working Foreman- Elec. Maint.		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Senior Maintenance Electrician		1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Maintenance Electrician		3	3	3	3	3	3	3	3	2	2	2	2	3	3	3
I&C Technician III		1	1	2	2	2	2	2	2	2	2	2	2	2	1	2
I&C Technician II		1	1	0	0	0	0	0	0	0	0	1	1	1	1	1
I&C Technician I		3	2	2	3	3	3	3	3	3	3	2	2	1	2	2
		10	10	10	11	11	11	11	11	11	11	11	11	11	11	12
Miki Basin Power Plant- Maint.	GL															
Sr. Diesel Maint. Mechanic		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maintenance Electrician		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Palaau Power Plant- Maint.	GT															
Diesel Maintenance Mechanic		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maintenance Electrician		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total Production Maintenance		45	46	47	48	48	48	47	47	48	48	47	46	48	48	51

CA-IR-90

Ref: MECO-WP-508, (Production Materials Inventory).

a. Please provide updated monthly actual inventory balances by location for all available months of 2006 and 2007, to date.
b. Does MECO conduct periodic physical inventories of production materials to verify recorded amounts?
c. Please provide a summary of physical inventories at each location and provide copies of journal entries recording the results of such inventory work.
d. Are any production department inventory materials obsolete or unusable?
e. If your response to part (d) of this information request is affirmative, provide an itemized listing of the carrying cost of obsolete or unusable materials by location for the test year.
f. Explain and itemize the individually large purchases that comprise the projected increases in inventory at Maalaea Power Plant (See WP-508, page 2 in 2007).

MECO Response:

a. Please refer to CA-IR-90 Attachment 1 for an updated monthly actual inventory balances by location for all available months of 2006 and 2007, to April. In addition, the June 2007 update includes an updated MECO-WP-508, Production Materials Inventory with the remaining months' test year estimates.

b. To ensure the accuracy of inventory balances and to ensure obsolete or slow moving inventory are written off in a timely manner, the warehouse personnel perform "cycle counts". A "cycle count" is similar to a physical inventory count, except that the entire inventory for each warehouse is not counted.

Ellipse determines the items to be cycle counted based on the dollar frequency of materials turnover. The frequency of how often a stock item is to be counted is determined by an ABC classification. A classification of A would be more frequent then B and B more than C. The A classification has the highest dollar value of inventory turn, C the lowest, and B in the middle.

Ellipse cycle counting parameters at both MPP and KPP are set to automatically run the Stock Take Count Sheets either daily or weekly showing the cycle count date, location, run number, date and time printed as well as stock numbers and bin locations of materials to be counted. The Ellipse system generates a unique run number to identify the respective cycle count based on pre-established parameters.

The Kahului Power Plant (KPP) warehouse performs cycle counts on a weekly basis and the Maalaea Power Plant (MPP) warehouse on a daily (Monday-Friday) basis. The Lanai and Molokai Power Plants perform an annual physical inventory.

c. The summaries of physical inventories at each warehouse locations are provided in both Excel and PDF files (see CA-IR-90 Attachments 2 through 5). Please refer to CA-IR-90 Attachment 6 for copies of journal entries recording the results of periodic physical inventories for 2006 and 2007, to date.

d. Yes.

e. Please refer to CA-IR-90 Attachment 7 for an itemized listing of the carrying cost of obsolete or unusable materials at the MPP warehouse for the test year.

f. Spare parts for M18 were included as part of the 2007 forecast for MPP materials inventory. However, spare parts for M18 were included in the capital cost for M18 at a total cost of $235,000, rather than in materials inventory. Other detailed information regarding the calculation of the 2007 estimates of MPP materials inventory is not available due to retirement of the staff member who prepared the estimates.

CA-IR-90

Ref: MECO-WP-508, (Production Materials Inventory).

a. Please provide updated monthly actual inventory balances by location for all available months of 2006 and 2007, to date.
b. Does MECO conduct periodic physical inventories of production materials to verify recorded amounts?
c. Please provide a summary of physical inventories at each location and provide copies of journal entries recording the results of such inventory work.
d. Are any production department inventory materials obsolete or unusable?
e. If your response to part (d) of this information request is affirmative, provide an itemized listing of the carrying cost of obsolete or unusable materials by location for the test year.
f. Explain and itemize the individually large purchases that comprise the projected increases in inventory at Maalaea Power Plant (See WP-508, page 2 in 2007).

MECO Response:

a. Please refer to CA-IR-90 Attachment 1 for an updated monthly actual inventory balances by location for all available months of 2006 and 2007, to April.

b. To ensure the accuracy of inventory balances and to ensure obsolete or slow moving inventory are written off in a timely manner, the warehouse personnel perform "cycle counts". A "cycle count" is similar to a physical inventory count, except that the entire inventory for each warehouse is not counted.

Ellipse determines the items to be cycle counted based on the dollar frequency of materials turnover. The frequency of how often a stock item is to be counted is determined by an ABC classification. A classification of A would be more frequent then B and B more than C. The A classification has the highest dollar value of inventory turn, C the lowest, and B in the middle.

Ellipse cycle counting parameters at both MPP and KPP are set to automatically run the Stock Take Count Sheets either daily or weekly showing the cycle count date, location, run number, date and time printed as well as stock numbers and bin locations of materials to be counted. The Ellipse system generates a unique run number to identify the respective cycle count based on pre-established parameters.

The Kahului Power Plant (KPP) warehouse performs cycle counts on a weekly basis and the Maalaea Power Plant (MPP) warehouse on a daily (Monday-Friday) basis. The Lanai and Molokai Power Plants perform an annual physical inventory.

c. The summaries of physical inventories at each warehouse locations are provided in both Excel and PDF files (see CA-IR-90 Attachments 2 through 5). Please refer to CA-IR-90 Attachment 6 for copies of journal entries recording the results of periodic physical inventories for 2006 and 2007, to date.

d. Yes.

e. Please refer to CA-IR-90 Attachment 7 for an itemized listing of the carrying cost of obsolete or unusable materials at the MPP warehouse for the test year.

f. Spare parts for M18 were included as part of the 2007 forecast for MPP materials inventory. However, spare parts for M18 were included in the capital cost for M18 at a total cost of $2[illegible],000, rather than in materials inventory. Other detailed information regarding the calculation of the 2007 estimates of MPP materials inventory is not available due to retirement of the staff member who prepared the estimates.

Maui Electric Company, Limited

MATERIALS INVENTORY [1]
KAHULUI POWER PLANT
(Dollars)

	2003	2004	2005	2006	2007 [2]
DECEMBER	687,813	697,961	706,278	680,424	682,764
JANUARY	672,049	705,272	699,973	690,352	676,039
FEBRUARY	672,621	710,490	692,130	691,337	682,075
MARCH	681,096	705,804	686,232	692,701	679,835
APRIL	674,229	706,769	689,837	701,464	715,607
MAY	674,905	710,513	696,377	703,423	
JUNE	687,761	714,901	706,700	704,370	
JULY	675,177	717,988	703,061	705,497	
AUGUST	694,757	721,322	701,929	705,678	
SEPTEMBER	695,593	707,477	704,002	701,920	
OCTOBER	700,793	715,453	697,263	694,446	
NOVEMBER	695,718	717,761	664,890	692,710	
DECEMBER	697,961	706,278	680,424	682,764	
13-MO. TOTAL	8,910,473	9,237,990	9,029,096	9,047,086	
13-MO. AVERAGE [3]	685,421	710,615	694,546	695,930	

Note:
[1] Does not include lube oil inventory
[2] Recorded values up to April 2007
[3] 13-month average is calculated from the previous Dec. to the Dec. in the year indicated, inclusive

Maui Electric Company, Limited

MATERIALS INVENTORY [1]
MAALAEA POWER PLANT
(Dollars)

	2003	2004	2005	2006	2007 [2]
DECEMBER	5,533,098	6,060,912	6,288,249	6,481,266	6,790,374
JANUARY	5,717,607	6,133,186	6,428,391	6,639,987	6,690,556
FEBRUARY	5,935,518	6,418,660	6,401,971	6,832,452	6,768,196
MARCH	6,124,986	6,249,345	6,500,631	6,838,832	6,675,416
APRIL	6,102,129	6,160,036	6,225,363	6,795,936	6,722,300
MAY	6,084,428	6,315,904	6,307,037	6,660,106	
JUNE	6,292,844	6,451,462	6,500,177	6,478,913	
JULY	6,266,165	6,315,603	6,433,627	6,583,393	
AUGUST	6,239,688	6,366,371	6,397,665	6,670,985	
SEPTEMBER	6,331,141	6,445,206	6,351,207	6,742,527	
OCTOBER	6,279,898	6,467,988	6,311,006	6,769,693	
NOVEMBER	6,296,478	6,447,152	6,495,732	6,778,070	
DECEMBER	6,060,912	6,288,249	6,481,266	6,790,374	
13-MO. TOTAL	79,264,892	82,120,075	83,122,323	87,062,534	
13-MO. AVERAGE [3]	6,097,299	6,316,929	6,394,025	6,697,118	

Note:
[1] Does not include lube oil inventory
[2] Recorded values up to April 2007
[3] 13-month average is calculated from the previous Dec. to the Dec. in the year indicated, inclusive

Maui Electric Company, Limited

MATERIALS INVENTORY [1]
LANAI DIVISION
(Dollars)

	2003	2004	2005	2006	2007 [2]
DECEMBER	62,548	63,458	78,297	102,329	68,274
JANUARY	63,503	73,839	72,478	93,333	68,261
FEBRUARY	63,503	73,845	72,478	107,339	68,332
MARCH	56,505	65,190	77,638	71,269	71,839
APRIL	56,505	67,260	79,984	72,162	77,382
MAY	64,504	92,938	80,008	112,189	
JUNE	55,208	93,477	82,236	114,981	
JULY	71,172	121,085	106,415	101,773	
AUGUST	71,233	81,048	106,415	110,586	
SEPTEMBER	71,086	80,747	67,367	112,882	
OCTOBER	71,452	80,752	106,948	112,918	
NOVEMBER	71,452	79,307	102,329	112,748	
DECEMBER	63,458	78,297	102,367	68,274	
13-MO. TOTAL	842,129	1,051,243	1,134,960	1,292,784	
13-MO. AVERAGE [3]	64,779	80,865	87,305	99,445	

Note:
[1] Does not include lube oil inventory
[2] Recorded values up to April 2007
[3] 13-month average is calculated from the previous Dec. to the Dec. in the year indicated, inclusive

Maui Electric Company, Limited

MATERIALS INVENTORY [1]
MOLOKAI DIVISION
(Dollars)

	2003	2004	2005	2006	2007 [2]
DECEMBER	48,137	46,572	86,964	49,475	60,053
JANUARY	50,117	48,608	86,108	49,143	61,641
FEBRUARY	50,096	47,833	85,511	48,997	60,805
MARCH	48,989	46,921	45,749	47,737	101,369
APRIL	48,526	50,675	47,475	48,809	40,000
MAY	48,734	49,225	47,002	48,809	
JUNE	48,825	48,486	46,355	55,264	
JULY	49,119	47,651	45,939	54,007	
AUGUST	53,516	47,944	45,606	54,206	
SEPTEMBER	52,900	47,026	47,081	54,381	
OCTOBER	47,775	46,906	46,047	54,517	
NOVEMBER	47,303	86,570	45,691	55,071	
DECEMBER	46,572	86,964	49,475	60,053	
13-MO. TOTAL	640,609	701,381	725,003	680,469	
13-MO. AVERAGE [3]	49,278	53,952	55,769	52,344	

Note:
[1] Does not include lube oil inventory
[2] Recorded values up to April 2007
[3] 13-month average is calculated from the previous Dec. to the Dec. in the year indicated, inclusive

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000154229	PAINT, ALUMINUM HI-HEAT, 500-1200 DEG.	1 GALLON	2.00	GL	85.35	170.70
KPP	000154369	PAINT, BLACK, ZOPHAR, #10, SIZE: GALLON	FOR PAINTING STACKS & TRAVELING SCREEN,	0.00	GL	0.00	0.00
KPP	000154385	PAINT, BLACK, ZOPHAR, #20, SIZE: GALLON	FOR PAINTING STACKS & TRAVELING SCREEN,	5.00	GL	62.54	312.68
KPP	000154427	PAINT, BLACK, ZOPHAR, #32, TRIPLE A	SIZE: 1 GALLON.	0.00	GL	43.75	0.00
KPP	000156786	WASHER, SPRING, (MS, SUS304SS)	FOR YOKOGAWA O2 ANALYZER, MODEL	8.00	EA	1.04	8.33
KPP	000156802	BOLT, CAP, (M5X12, SUS316SS)	FOR YOKOGAWA O2 ANALYZER, MODEL	8.00	EA	5.21	41.66
KPP	000166066	CHART, CIRCULAR CODE 12, BAILEY	1-10, 24 HR.	6.00	BX	19.29	115.72
KPP	000166108	CHART, CIRCULAR CODE 12, BAILEY (BA0202)	15-0-15	12.00	BX	19.00	228.00
KPP	000170381	PEN, INSTRUMENT, DISPOSABLE 76-RED	FOR BAILEY RECORDER, TYPE WM55A & KN55A.	6.00	PG	28.94	173.66
KPP	000170423	PEN, INSTRUMENT, DISPOSABLE 76-GREEN	FOR BAILEY RECORDER, TYPE WM55A & KN55A.	9.00	PG	26.50	238.46
KPP	000170464	PEN, INSTRUMENT, DISPOSABLE 76-BLUE	FOR BAILEY RECORDER, TYPE WM55A & KN55A.	5.00	PG	28.61	143.07
KPP	000170506	PEN, INSTRUMENT, DISPOSABLE 76-PURPLE	FOR BAILEY RECORDER, TYPE WM55A & KN55A.	6.00	PG	15.60	93.60
KPP	000182089	VALVE, KIT, PILOT	CONSISTS OF:	1.00	EA	0.00	0.00
KPP	000207142	KIT, LED UPGRADE, FOR OPACITY MONITOR	4500MKII	2.00	EA	161.20	322.40
KPP	000207185	RING, FLANGE SEAL, FOR OPACITY MONITOR	MODEL #4500MK11	2.00	EA	28.08	56.16
KPP	000208181	PLATE, SIZE: 1/8" X 4'0" X 8'0"	HECO ONLY: ASTM A-606, TYPE 4.	3.00	SH	167.80	503.41
KPP	000208200	PLATE, SIZE: 3/16" X 4'0" X 8'0"	HECO ONLY: ASTM A-606, TYPE 4.	2.00	SH	219.71	439.41
KPP	000208207	PLATE	SIZE: 1/4" X 4'0" X 8'0".	0.00	SH	0.00	0.00
KPP	000213942	GUARD, VALVE, MECHANICAL, STEEL		4.00	EA	208.00	832.00
KPP	000213967	SEAT, VALVE, STEEL		2.00	EA	187.20	374.40
KPP	000213975	KIT, FV STRIP		2.00	EA	5.46	10.92
KPP	000214247	INSERT, NUB, PLASTIC, 1/2" DIA. FOR	WORTHINGTON AIR COMPRESSOR 11-1/4 X	20.00	EA	0.84	16.85
KPP	000223909	ROCBOARD, PARTEK, 2 x 24 x 48", 8"	DENSITY. FOR BOILER INSULATION.	81.00	SH	16.10	1,303.87
KPP	000241968	PEN, PURPLE-PLOTTER, 1ST PEN (3/PACK)	FOR YOKOGAWA RECORDER, MODEL	12.00	PK	0.00	0.00
KPP	000251124	LAMP, TELEPHONE BASE, SIZE: 55 VOLT	.045 AMP, WESTINGHOUSE	0.00	EA	0.00	0.00
KPP	000254201	BATTERY, AA		0.00	EA	0.36	0.00
KPP	000254227	BATTERY, C		0.00	EA	0.67	0.00
KPP	000254243	BATTERY, D		0.00	EA	0.88	0.00
KPP	000254268	BATTERY, 9V	12 PER PACK OR 72 PER BOX	0.00	EA	1.30	0.00
KPP	000272088	VALVE, NEEDLE, MINI, 1/4" FPT, 6000PSI		4.00	EA	74.46	297.86
KPP	000401489	RECORDING CHART	900KT1	8.00	EA	19.44	155.50
KPP	000402206	CHART, RECORDING, YOKOGAWA	B-9565AW	24.00	EA	5.53	132.68
KPP	000499707	CARTRIDGE, PEN, RED (3/PACK)	(CEMS)	8.00	PK	12.07	96.58
KPP	000499723	CARTRIDGE	PEN - GREEN	6.00	PK	13.43	80.61
KPP	000502823	SWITCH	MAGNETROL	2.00	EA	138.73	277.46
KPP	000512046	GAUGE	WIKA, 30HG/LQ 2.5" DIAL	1.00	EA	46.68	46.68
KPP	000513564	ANODE, ZINC, 3" DIA X 1" THICK WITH	5/8" CORE.	41.00	EA	5.53	226.92
KPP	000513580	ANODE, ZINC, 6" DIA X 1" THICK WITH	5/8" CORE.	31.00	EA	15.81	490.11
KPP	000513606	ANODE, ARBOR/CORE SIZE: 5/8"	SIZE: 6" X 12" X 2"	16.00	EA	64.24	1,027.80
KPP	000513622	BEARING	BALL STEP	0.00	EA	0.65	0.00
KPP	000513648	RELAY, 120 VAC	#608 (PURIFIER)	2.00	EA	23.72	47.44
KPP	000513663	TIMER, PURIFIER	#608 OMRON	3.00	EA	229.96	689.87
KPP	000513689	BEARING	RING-FLEXIBLE	0.00	EA	4.75	0.00
KPP	000513705	BEARING	STEADY-CARBON	2.00	EA	140.62	281.23
KPP	000513721	KIT, ELECTRODE GLASS	W/W PH TESTING	1.00	EA	108.33	108.33
KPP	000513747	REFERENCE CAVITY KIT	REFILL (PH MONITOR)	0.00	EA	0.00	0.00
KPP	000513762	CASING	IMPELLER PUMP HOUSING	1.00	EA	497.28	497.28
KPP	000513788	PUMP, METERING	MILTON ROY	1.00	EA	659.33	659.33
KPP	000513804	BEARING	WASHER STEP	0.00	EA	3.71	0.00
KPP	000513820	ANNUNCIATOR	PANALARM PLUG-IN	3.00	EA	500.02	1,500.06
KPP	000513846	HEATER, MOTOR	CARTRIDGE	10.00	EA	40.90	409.04
KPP	000513861	SWITCH	PRESSURE MERCOID	1.00	EA	118.33	118.33
KPP	000513887	HEATER, MOTOR	CARTRIDGE, (SEE 50024) SAME ITEM	3.00	EA	16.64	49.92
KPP	000513903	CELL	CONDUCTIVITY PROBE	0.00	EA	666.26	0.00
KPP	000513929	SLEEVE, COUPLING	#721 & #722 SUMP PUMPS	2.00	EA	13.20	26.39
KPP	000513945	CARTRIDGE ASSY	REVERSE OSMOSIS SYSTEM	6.00	EA	67.22	403.29
KPP	000513960	DIAPHRAGM	REVERSE OSMOSIS SYSTEM	1.00	EA	5.41	5.41

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000513986	VALVE	CONTROL ASSY, 4-WAY	1.00	EA	690.46	690.46
KPP	000514000	SEAL	REVERSE OSMOSIS SYSTEM	4.00	EA	2.21	8.84
KPP	000514026	REPAIR KIT (EV-1)	REVERSE OSMOSIS SYSTEM	1.00	EA	71.34	71.34
KPP	000514042	VALVE, SOLENOID, 120/60, 110/50	CULLIGAN RO SYSTEM	1.00	EA	228.80	228.80
KPP	000514067	RING, inside snap	STAINLESS STEEL RETAINER	0.00	EA	58.73	0.00
KPP	000514083	TIMER	CONTROLLER	1.00	EA	943.74	943.74
KPP	000514109	VALVE	PILOT	1.00	EA	484.38	484.38
KPP	000514125	BUSHING	SPINDLE	1.00	EA	49.99	49.99
KPP	000514141	CARDISORBER	ORSAT GAS ANALYZER	2.00	EA	37.62	75.24
KPP	000514166	ALUMINUM OXIDE, 220 GRIT		0.00	EA	35.87	0.00
KPP	000514182	SODA ASH, 50# BAG	AIR HEATER WASH	21.00	EA	16.32	342.72
KPP	000514208	KLEENBLAST	SANDBLASTING GRIT	80.00	BG	16.58	1,326.56
KPP	000514224	BRICK, INSULATING, FIRE	9" X 4 1/2" X 3",	2.00	BX	151.03	302.06
KPP	000514240	CLOTH	FIBERGLASS	1.00	EA	488.51	488.51
KPP	000514265	BOARD	1 1/2" X 48" X 24"	0.00	BX	108.81	0.00
KPP	000514281	THERMAL MW 15 KOTE CEMENT, 46# BAG	15 BOARD FEET PER PACKAGE	7.00	EA	35.24	246.66
KPP	000514307	CASTABLE, HIGH STRENGTH	(PREVIOUSLY CALLED REFRACRETE)	170.00	EA	33.61	5,713.19
KPP	000514323	QUICK COTE	INSULATION	15.00	EA	25.81	387.16
KPP	000514349	INSULATION, KAOWOOL, 1" X 48" X 25',	6# DENSITY	0.00	EA	288.63	0.00
KPP	000514364	CLOTH, REWETTABLE, FIBERGLASS,INSULATION	SIZE: ROLL	1.00	RL	473.37	473.37
KPP	000514380	WHITE MASTIC	INSULATION, 5 GAL PAILS	4.00	EA	142.69	570.75
KPP	000514406	SWITCH, PUSH BUTTON	FT TYPE SELECTOR STATION	6.00	EA	107.12	642.72
KPP	000514422	COVER, FT TYPE SCALE	SELECTOR STATION	0.00	EA	0.00	0.00
KPP	000514448	RELAY, COIL	125V DC, WESTH,MG-6 RELAY	4.00	EA	36.97	147.88
KPP	000514463	CONNECTOR	ORSAT GAS ANALYZER, RUBBER	4.00	EA	1.50	6.00
KPP	000514489	WIRE	ORSAT GAS ANALYZER COPPER	1.00	EA	38.31	38.31
KPP	000514505	JOINT	EXPANSION, 10', 14G, CORTEN	5.00	EA	382.27	1,911.35
KPP	000514521	FILTER	FUEL,	4.00	EA	5.47	21.87
KPP	000514547	INDICATOR	RESTRICTION,	2.00	EA	41.00	82.00
KPP	000514562	ELEMENT	LUBE OIL FILTER	1.00	ST	146.46	146.46
KPP	000514588	GAUGE, 200# PSI		2.00	EA	47.91	95.83
KPP	000514604	GAUGE, 1384 "G"	INSTRUMENT (FT STATION)	0.00	EA	14.37	0.00
KPP	000514620	GAUGE, 1384 "I"	OUTPUT (FT STATION)	5.00	EA	14.48	72.40
KPP	000514646	GAUGE, 1384 "H"	SUPPLY (FT STATION)	2.00	EA	13.20	26.40
KPP	000514661	GAUGE, 15# PSI, 2-1/2" SS CASE	LOWER 1/4" MOUNT, XLL "PLUS" REPLACES	1.00	EA	46.12	46.12
KPP	000514687	GAUGE 30# PSI WIKA	2-1/2" LIQUID FILLED PRESS GAUGES	2.00	EA	43.43	86.85
KPP	000514703	GAUGE, ASHCROFT	4-1/2: FACE, 0-1000# PSI	2.00	EA	120.50	240.99
KPP	000514729	GAUGE, 60# PSI WIKA	2-1/2" LIQUID FILLED PRESS GAUGE	3.00	EA	51.51	154.53
KPP	000514745	GAUGE, PRESS, 200# PSI, 2-1/2" LIQUID	FILLED	2.00	EA	44.68	89.36
KPP	000514760	GAUGE	300# PSI	0.00	EA	78.10	0.00
KPP	000514786	GAUGE, 300# PSI WIKA	2-1/2" LIQUID FILLED PRESS GAUGE	3.00	EA	46.62	139.86
KPP	000514802	GAUGE, 100# PSI WIKA	2-1/2" LIQUID FILLED PRESS GAUGES	1.00	EA	45.32	45.32
KPP	000514828	GAUGE	600# PSI	0.00	EA	78.10	0.00
KPP	000514844	GAUGE, ASHCROFT	4-1/2" FACE, 0-800# PSI	3.00	EA	134.37	403.11
KPP	000514845	GAUGE, ASHCROFT	4-1/2" FACE, 0-1000# PSI	3.00	EA	142.40	427.19
KPP	000514869	GAUGE, 2000# PSI WIKA	2-1/2" LIQUID FILLED PRESS GAUGE	2.00	EA	51.92	103.84
KPP	000514885	BELT	COUPLING	2.00	EA	49.23	98.46
KPP	000514901	GASKET	#704 WEIL SUMP PUMP	1.00	EA	25.00	25.00
KPP	000514927	SHAFT	72 1/2" X 1"	1.00	EA	531.94	531.94
KPP	000514943	GASKET	COVER	14.00	EA	23.33	326.62
KPP	000514968	ORING	GASKET	1.00	EA	37.50	37.50
KPP	000514984	GASKET	BONNET ASBESTOS	0.00	EA	0.92	0.00
KPP	000515007	GASKET, OVAL, 304/GRAPHITE. 12-1/8" X	16-1/8" FLEXITALLIC, 3/4" WIDTH, 3/16"	13.00	EA	41.87	544.32
KPP	000515023	DIAPHRAGM	NEOPRENE	6.00	EA	11.71	70.26
KPP	000515049	PIN	GROOVE	1.00	EA	0.35	0.35
KPP	000515064	NUT	IMPELLER	1.00	EA	17.71	17.71
KPP	000515080	IMPELLER	704 WEIL SUMP PUMP	1.00	EA	401.44	401.44
KPP	000515106	POSITIONER, DRIVE ARM	DAMPERS K1-4 - BLR	1.00	EA	35.93	35.93
KPP	000515122	POSITIONER, SPRING BEAM ASSY	DAMPERS	2.00	EA	121.38	242.76
KPP	000515148	CONNECTING LINK	POSITIONER, DAMPERS	3.00	EA	59.90	179.70
KPP	000515163	NUTS, 1142 "E"	ELASTIC STOP	5.00	EA	0.85	4.25
KPP	000515189	GASKET	2-1/2", 600#, FLEX	0.00	EA	5.03	0.00
KPP	000515205	PACKING, GARLOCK 98, SIZE: 1/8"	850 DEGREES	1.00	EA	1,548.04	1,548.04
KPP	000515221	PACKING, GARLOCK 98, SIZE: 3/16"	850 DEGREES	0.00	EA	931.46	0.00
KPP	000515247	PACKING, GARLOCK 98, SIZE: 1/4"	850 DEGREES	0.00	EA	998.61	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000515248	PACKING, GARLOCK 98, SIZE: 3/8"	850 DEGREES	1.00	EA	1,325.70	1,325.70
KPP	000515249	PACKING, GARLOCK 98, SIZE: 1/2"	850 DEGREES	1.00	EA	1,307.73	1,307.73
KPP	000515250	PACKING, CARBON	850 DEGREES 7/16"	1.00	BX	1,307.73	1,307.73
KPP	000515251	PACKING, 5/16", 850 DEGREES.		1.00	EA	1,235.56	1,235.56
KPP	000515252	PACKING, VALVE STEM	VALVES - 1200 DEGREES FEP 1/8"	1.00	BX	220.82	220.82
KPP	000515253	PACKING, VALVE STEM	VALVES - 1200 DEGREES FEP 3/16"	1.00	BX	220.82	220.82
KPP	000515254	PACKING, GARLOCK 1303, SIZE: 1/4"	VALVES - 1200 DEGREES	1.00	EA	0.00	0.00
KPP	000515255	PACKING, GARLOCK 1303, SIZE: 3/8"	VALVES - 1200 DEGREES	1.00	EA	0.00	0.00
KPP	000515256	PACKING, VALVE STEM	VALVES - 1200 DEGREES FEP 1/2"	1.00	BX	1,067.64	1,067.64
KPP	000515257	PACKING, VALVE STEM	VALVES - 1200 DEGREES FEP 7/16"	1.00	BX	1,067.64	1,067.64
KPP	000515258	PACKING, VALVE STEM	VALVES - 1200 DEGREES FEP 9/16"	1.00	BX	1,067.64	1,067.64
KPP	000515259	PACKING, GARLOCK 1303, SIZE: 5/8"	VALVES - 1200 DEGREES	1.00	EA	0.00	0.00
KPP	000515260	PACKING, CHESTERTON 1727, 1/2"	700 DEGREES, FOR PUMPS	1.00	BX	406.22	406.22
KPP	000515261	PACKING, GRAPHITE	PUMPS - 700 DEGREES 3/16"	1.00	BX	151.03	151.03
KPP	000515262	PACKING, 9/16"		0.00	EA	823.44	0.00
KPP	000515263	PACKING, GRAPHITE	PUMPS - 700 DEGREES 1/4"	0.00	BX	708.29	0.00
KPP	000515264	PACKING, GRAPHITE	PUMPS - 700 DEGREES 5/16"	1.00	BX	708.29	708.29
KPP	000515265	PACKING, CHESTERTON, SIZE 9/16"	#1727, 5-LB BOX	1.00	BX	394.30	394.30
KPP	000515284	PACKING, GARLOCK 98, SIZE: 5/8"		1.00	EA	1,102.53	1,102.53
KPP	000515288	PACKING, GARLOCK 1304, SIZE: 3/8"	PUMPS - 700 DEGREES	1.00	EA	1,020.77	1,020.77
KPP	000515304	PACKING, GRAPHITE	PUMPS - 700 DEGREES 7/16"	1.00	BX	1,319.84	1,319.84
KPP	000515320	PACKING, GRAPHITE	PUMPS - 700 DEGREES 1/2"	1.00	BX	918.59	918.59
KPP	000515346	PACKING, GRAPHITE	9/16" 5# BOX	0.00	BX	708.29	0.00
KPP	000515361	PACKING, GRAPHITE	PUMPS - 700 DEGREES 5/8"	1.00	BX	921.86	921.86
KPP	000515387	PACKING, GARLOCK 98, SIZE: 9/16"	850 DEGREES	1.00	BX	1,307.75	1,307.75
KPP	000515403	PACKING, CHESTERTON, SIZE: 7/16"	#1727, 5-LB BOX	2.00	RL	364.03	728.06
KPP	000515429	PACKING, CHESTERTON, SIZE 3/8"	#1727	1.00	EA	435.39	435.39
KPP	000515445	PACKING	3/8" #2007	2.00	EA	235.16	470.32
KPP	000515460	PACKING	1/2" #2019	0.00	EA	99.87	0.00
KPP	000515486	PACKING, 1/2", "A" BOX, JOHN CRANE	BRAIDED FLEXIBLE GRAPHITE PACKING	2.00	EA	38.54	77.08
KPP	000515502	PACKING	3/8" JOHN CRANE BRAIDED FLEXIBLE	1.00	EA	55.21	55.21
KPP	000515528	PACKING, 7/16"	JOHN CRANE BRAIDED FLEXIBLE	2.00	BX	65.62	131.24
KPP	000515544	PIPE	GALV, 1 1/2", threaded & capped, sch 40	84.00	FT	3.11	261.53
KPP	000515569	PIPE, GALV, 1-1/4", SCH40, THREADED AND	COUPLED.	84.00	FT	2.23	187.14
KPP	000515585	PIPE, GALV, 1/2", SCH40, THREADED AND	COUPLED.	63.00	FT	0.49	30.90
KPP	000515601	PIPE, GALV, 1/4", SCH40, THREADED	AND COUPLED.	84.00	FT	0.72	60.16
KPP	000515627	PIPE, GALV, 1", SCH40, THREADED AND	COUPLED.	42.00	FT	2.72	114.18
KPP	000515643	PIPE, GALV, 2-1/2", SCH40, THREADED AND	COUPLED.	21.00	FT	4.28	89.78
KPP	000515668	PIPE, GALV, 2", SCH40, THREADED AND	COUPLED.	63.00	FT	1.85	116.43
KPP	000515684	PIPE, GALV, 3/4", THREADED AND COUPLED		84.00	FT	2.15	180.79
KPP	000515700	PIPE, GALV, 3/8", SCH40, THREADED AND	COUPLED.	42.00	FT	0.64	26.88
KPP	000515726	PIPE, GALV, 4", THREADED AND COUPLED		21.00	FT	5.06	106.31
KPP	000515742	FLANGE	1/2" 150# C/S THRD R/F	2.00	EA	40.74	81.48
KPP	000515767	PIPE, GALV, 3", THREADED AND COUPLED		21.00	FT	3.55	74.59
KPP	000515783	FLANGE, BLK, 2", 150#, SLIP ON TYPE,	WITH RAISED FACE ON THE FLANGE SIDE.	5.00	EA	8.73	43.65
KPP	000515809	FLANGE, BLK, 4", 150#, SLIP ON TYPE,	WITH RAISED FACE ON THE FLANGE SIDE.	4.00	EA	18.58	74.33
KPP	000515825	PIPE	BLK, 1/4", SCH. 80	21.00	FT	1.56	32.83
KPP	000515841	FLANGE, BLK, 6", 150#, SLIP ON TYPE,	WITH RAISED FACE ON THE FLANGE SIDE.	2.00	EA	29.72	59.44
KPP	000515866	FLANGE, BLK, 3", 150#, SLIP ON TYPE,	WITH RAISED FACE ON THE FLANGE SIDE.	3.00	EA	11.57	34.70
KPP	000515882	PIPE	BLK, 3/8", SCH. 80	84.00	FT	1.93	161.76
KPP	000515908	PIPE	BLK, 1/2", SCH. 80	42.00	FT	3.25	136.66
KPP	000515924	PIPE	BLK, 3/4", SCH. 80	21.00	FT	4.16	87.34
KPP	000515940	PIPE, BLACK, SIZE: 1", SCH. 80	MATERIAL TEST REPORT IS REQUIRED.	20.00	FT	3.55	70.93
KPP	000515965	PIPE	BLK, 2", SCH. 80	65.00	FT	9.44	613.62
KPP	000515981	PIPE	BLK, 3", SCH. 80	43.00	FT	14.63	629.06
KPP	000516005	PIPE	BLK, 1 1/4", SCH. 80	42.00	FT	2.04	85.74
KPP	000516021	PIPE	BLK, 1 1/2", SCH. 80	41.00	FT	7.71	316.16
KPP	000516047	PIPE	BLK, 2 1/2", SCH. 80	60.00	FT	5.72	343.12
KPP	000516062	PIPE	BLK, SIZE: 4", SCH. 80, A106B	63.00	FT	27.66	1,742.65
KPP	000516088	PIPETTE	COPPER, GAS ANALYZER	1.00	EA	62.87	62.87
KPP	000516104	PLATE	SUCTION	1.00	EA	182.69	182.69
KPP	000516120	VALVE, PLUG	AIR PRE-HEATER CONTROL	1.00	EA	926.79	926.79
KPP	000516146	COUNTER ASSY	ENGLISH	2.00	EA	124.50	249.00
KPP	000516161	GEAR	PINION, DELRIN	2.00	EA	13.31	26.62
KPP	000516187	DIAL	ENGLISH	2.00	EA	29.81	59.62

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000516203	PLUG	1-1/2" GALVANIZED	113.00	EA	1.69	191.05
KPP	000516229	PLUG	2", GALVANIZED	187.00	EA	3.12	583.40
KPP	000516245	POINT	STEEL	2.00	EA	54.86	109.72
KPP	000516260	RELAY	OVERLOAD, (MCC)	1.00	EA	23.41	23.41
KPP	000516286	RELAY	OVERLOAD, LOAD CENTER (MCC)	1.00	EA	18.95	18.95
KPP	000516302	RING	SEAT BOTTOM	1.00	EA	43.80	43.80
KPP	000516328	SEAT RING, TOP	AIR PREHEATER CONTROL VALVE	1.00	EA	43.80	43.80
KPP	000516344	RING	PISTON GRAPHITE	2.00	EA	6.51	13.02
KPP	000516369	RELAY ASSY	HIGH TEMP	3.00	EA	235.02	705.05
KPP	000516385	BAND ASSY	#190, #290, #390. #490 BOILER CONTROLS	2.00	EA	119.99	239.98
KPP	000516401	GASKET	RELAY	5.00	EA	1.77	8.86
KPP	000516427	KIT, REPLACEMENT RELAY,	HIGH TEMP BOILER CONTROLS	3.00	EA	189.57	568.71
KPP	000516443	ROPE, FIBERGLASS TWISTED, SIZE: 3/4".		1.00	BX	642.21	642.21
KPP	000516468	ROPE	1/4" FIBERGLASS	1.00	EA	42.93	42.93
KPP	000516484	ROPE, THERMO-SIL FIBERGLASS, TWISTED	1/2"	0.00	EA	365.13	0.00
KPP	000516500	SCREW, MACHINE	190-32 X .875	0.00	EA	1.20	0.00
KPP	000516526	INDICATOR	SIGHTFLOW DRIP TUBE	2.00	EA	286.00	572.00
KPP	000516542	JOINT SEALANT, 1/2" X 150'	GENERAL MAINTENANCE	1.00	EA	399.87	399.87
KPP	000516567	JOINT SEALANT, 3/4" X 100'	GENERAL MAINTENANCE	2.00	EA	517.68	1,035.36
KPP	000516583	JOINT SEALANT, 3/16" X 75'	GENERAL MAINTENANCE	1.00	EA	77.08	77.08
KPP	000516609	JOINT SEALANT, 3/8" X 250'	GENERAL MAINTENANCE	1.00	EA	426.01	426.01
KPP	000516625	PACKING	1/2" 5#	0.00	EA	91.81	0.00
KPP	000516641	JOINT SEALANT, 1/4" X 50'	GENERAL MAINTENANCE	1.00	EA	77.08	77.08
KPP	000516666	JOINT SEALANT, 5/8" X 150'	GENERAL MAINTENANCE	1.00	EA	533.30	533.30
KPP	000516682	ANALYZER	GAS ORSAT SEEZ 02 OXYGEN ABSORBER	2.00	EA	23.48	46.96
KPP	000516708	COMPOUND, INSULATION, MIZZOU CASTABLE	RATED TO 3000 DEG (55#/BG,72 BGS/PALLET)	0.00	EA	33.52	0.00
KPP	000516724	LAMP ASSY	BOILER SMOKE EYE TRANSCEIVER	1.00	EA	247.13	247.13
KPP	000516740	SPINDLE	BOWL, OIL PURIFIER	0.00	EA	325.59	0.00
KPP	000516765	POTENTIOMETER, WIREWOUND, BOILER SMOKE	EYE ELECTRONIC RECEIVER.	4.00	EA	30.07	120.26
KPP	000516781	STEEL WOOL	ORSAT GAS ANALYZER	1.00	EA	2.50	2.50
KPP	000516807	STEM - 1384"J"	PILOT VALVE	8.00	EA	28.89	231.12
KPP	000516823	TAPE	FIBERGLASS	1.00	EA	130.00	130.00
KPP	000516849	PACKING, Old 516849/50644 USE 605436	TADPOLE, 3/4"	0.00	EA	1,693.58	0.00
KPP	000516864	PACKING	TADPOLE, 3/4" X 1 3/4"	0.00	FT	516.72	0.00
KPP	000516880	THERMOMETER	LIQUID	1.00	EA	85.30	85.30
KPP	000516906	THERMOMETER	BI-METAL	3.00	EA	116.89	350.67
KPP	000516922	THERMOMETER	0-250F, 5" FACE, 4" STEM	3.00	EA	79.37	238.11
KPP	000516948	THERMOSTAT	02 STATION	1.00	EA	50.12	50.12
KPP	000516963	STEAM TRAP	3/4", 30#	1.00	EA	166.91	166.91
KPP	000516989	TRAP, STEAM	FT-75 STEAM TRAP, 3/4", 75#	1.00	EA	258.84	258.84
KPP	000517003	STEAM TRAP	3/4", 150#, SIZE 81	3.00	EA	165.03	495.09
KPP	000517029	FILTER BAG	34"	24.00	EA	20.07	481.68
KPP	000517045	FILTER RETAINER	30"	10.00	EA	25.88	258.75
KPP	000517060	VENTURI	ULTRALOK	17.00	EA	35.20	598.46
KPP	000517086	GASKET	PORT	1.00	EA	6.75	6.75
KPP	000517102	CLAMP	PORT	2.00	EA	20.25	40.50
KPP	000517128	TUBING, COPPER, REFRIGERATOR	1/4" X 50', ROLL	50.00	FT	0.66	32.79
KPP	000517144	REPAIR KIT	SOLENOID VALVE	9.00	EA	36.94	332.47
KPP	000517169	GASKET	VENTURI, ULTRALOK	27.00	EA	5.54	149.67
KPP	000517185	TUBING, COPPER, REFRIGERATOR	3/8" X 50' ROLL	1.00	EA	40.06	40.06
KPP	000517201	REPAIR KIT	DIAPHRAGM VALVE	9.00	EA	62.09	558.79
KPP	000517227	PLASTIC FITTING	DRESSER ULTRA VAC	2.00	EA	2.08	4.16
KPP	000517243	TUBING, COPPER, REFRIGERATOR	5/8" X 50' ROLL	1.00	EA	51.04	51.04
KPP	000517268	CLAMP	HOSE & FILTER	3.00	EA	1.75	5.25
KPP	000517284	SOLENOID VALVE	2-WAY PILOT VALVE ASSY.	1.00	EA	42.71	42.71
KPP	000517300	VALVE ASSY, PILOT	FISHER TYPE 171 FLOAT VALVE	2.00	EA	3.47	6.94
KPP	000517326	TUBING, COPPER, REFRIGERATOR	1/2" X 50' ROLL	1.00	RL	119.26	119.26
KPP	000517342	PLUG	VALVE	1.00	EA	705.22	705.22
KPP	000517367	RING	VALVE	1.00	EA	136.59	136.59
KPP	000517383	STEM	VALVE	1.00	EA	113.10	113.10
KPP	000517409	PACKING	VALVE STEM	1.00	EA	3.90	3.90
KPP	000517425	VALVE, GATE	FS 800# THRD BB OS&Y, 1/2"	4.00	EA	24.49	97.96
KPP	000517441	TUBULAR VALVE	STEEL, 3/4", SIGHT GLASS GAUGE, 2/SET	0.00	ST	339.17	0.00
KPP	000517466	CHECK VALVE	STEEL, THRD,3/4"	6.00	EA	41.42	248.52

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000517482	VALVE, GATE	1/2" BRONZE, 125# IPS RS	5.00	EA	16.10	80.52
KPP	000517508	CHECK VALVE	STEEL, S/W, 3/4"	5.00	EA	0.00	0.00
KPP	000517524	VALVE, GATE	FS 800# THRD BB OS&Y, 1/4"	6.00	EA	31.50	189.02
KPP	000517540	CHECK VALVE	STEEL, S/W, 1"	2.00	EA	61.72	123.43
KPP	000517565	CHECK VALVE	STEEL THRD, 1"	6.00	EA	59.45	356.70
KPP	000517581	VALVE, GATE	1/4" BRONZE, 125# IPS RS	4.00	EA	16.85	67.38
KPP	000517607	VALVE, GATE	FS 800# THRD BB OS&Y, 1"	3.00	EA	69.53	208.60
KPP	000517623	VALVE, GATE	1" BRONZE, 150# IPS RS	6.00	EA	38.06	228.34
KPP	000517649	VALVE, GATE	FS 800# THRD BB OS&Y, 2"	3.00	EA	117.44	352.31
KPP	000517664	VALVE, GATE	2" BRONZE, 300# IPS RS	5.00	EA	119.31	596.56
KPP	000517680	VALVE, GATE	FS 800# THRD BB OS&Y, 3/4"	6.00	EA	33.63	201.77
KPP	000517706	VALVE, GATE	3/4" BRONZE, 150# IPS RS	6.00	EA	29.86	179.17
KPP	000517722	VALVE, GATE	FS 800# THRD BB OS&Y, 3/8"	5.00	EA	32.31	161.53
KPP	000517748	VALVE, GATE	3/8" BRONZE, 125# IPS RS	5.00	EA	15.37	76.86
KPP	000517763	VALVE, GATE	1-1/2" BRONZE, 300# IPS RS	5.00	EA	104.87	524.37
KPP	000517789	VALVE, GATE	FS 800# THRD BB OS&Y, 1-1/4"	3.00	EA	81.32	243.96
KPP	000517805	VALVE, GLOBE	FS 800# SW BB OS&Y, 1/2"	2.00	EA	58.68	117.37
KPP	000517821	VALVE, GLOBE	FS 800# THRD BB OS&Y, 1/2"	4.00	EA	45.62	182.48
KPP	000517847	VALVE, GLOBE, BRONZE 125# IPS	SIZE: 1/2"	5.00	EA	23.90	119.51
KPP	000517862	VALVE, GLOBE	FS 800# SW BB OS&Y, 1/4"	4.00	EA	34.41	137.64
KPP	000517888	VALVE, GLOBE	FS 800# THRD BB OS&Y, 1/4"	1.00	EA	50.25	50.25
KPP	000517904	VALVE, GLOBE, BRONZE, 125# IPS	SIZE: 1/4"	6.00	EA	23.66	141.93
KPP	000517920	VALVE, GLOBE	FS 800# SW BB OS&Y, 1"	5.00	EA	72.26	361.32
KPP	000517946	VALVE, GLOBE	FS 800# THRD BB OS&Y, 1"	7.00	EA	63.34	443.38
KPP	000517961	VALVE, GLOBE	FS 800# SW BB OS&Y, 2"	3.00	EA	279.06	837.17
KPP	000517987	VALVE, GLOBE	FS 800# THRD BB OS&Y, 2"	2.00	EA	184.60	369.20
KPP	000518001	VALVE, GLOBE, BRONZE 300# IPS	SIZE: 2"	6.00	EA	64.17	385.02
KPP	000518027	VALVE, GLOBE	FS 800# SW BB OS&Y, 3/4"	4.00	EA	61.53	246.13
KPP	000518043	VALVE, GLOBE	FS 800# THRD BB OS&Y, 3/4"	5.00	EA	53.58	267.90
KPP	000518068	VALVE, GLOBE, BRONZE, 150# IPS	SIZE: 3/4"	4.00	EA	15.15	60.58
KPP	000518084	VALVE, GLOBE	FS 800# SW BB OS&Y, 3/8"	5.00	EA	43.91	219.55
KPP	000518100	VALVE, GLOBE	FS 800# THRD BB OS&Y, 3/8"	3.00	EA	43.00	129.00
KPP	000518126	VALVE, GLOBE, BRONZE, 125# IPS	SIZE: 3/8"	3.00	EA	17.05	51.15
KPP	000518142	VALVE, GLOBE	FS 800# SW BB OS&Y, 1-1/2"	3.00	EA	155.12	465.37
KPP	000518167	VALVE, GLOBE	FS 800# THRD BB OS&Y, 1-1/2"	6.00	EA	105.22	631.32
KPP	000518183	VALVE, GLOBE, BRONZE, 300# IPS	SIZE: 1-1/2"	3.00	EA	36.91	110.73
KPP	000518209	VALVE, GLOBE	FS 800# THRD BB OS&Y, 1-1/4"	4.00	EA	139.02	556.08
KPP	000518225	VALVE, GLOBE	FS 800# SW BB OS&Y, 1-1/4"	3.00	EA	229.95	689.84
KPP	000518241	VALVE, GLOBE, BRONZE, 150# IPS	SIZE: 1-1/4"	4.00	EA	75.43	301.71
KPP	000518266	VALVE, GATE	FS 800# SW BB OS&Y, 1-1/2"	2.00	EA	83.38	166.77
KPP	000518282	VALVE, GATE	FS 800# SW BB OS&Y, 1-1/4"	4.00	EA	81.95	327.80
KPP	000518308	VALVE, GATE	FS 800# SW BB OS&Y, 1/2"	4.00	EA	31.34	125.38
KPP	000518324	VALVE, GATE	FS 800# SW BB OS&Y, 1 "	4.00	EA	38.98	155.93
KPP	000518340	VALVE, GATE	FS 800# SW BB OS&Y, 2"	5.00	EA	160.59	802.95
KPP	000518365	VALVE, GATE	FS 800# SW BB OS&Y, 3/4"	4.00	EA	36.50	146.01
KPP	000518381	BUTTERFLY VALVE	STEEL, 4"	2.00	EA	94.10	188.20
KPP	000518407	WORM GEAR	F.O. RECV VALVE #503	0.00	EA	194.41	0.00
KPP	000518423	BUTTERFLY VALVE	PLASTIC, 4", TANK FARM	3.00	EA	180.15	540.45
KPP	000518449	GLOBE VALVE, 1/2", 1500-LB	STEEL, S/W, SPECIAL USE ONLY,	1.00	EA	450.68	450.68
KPP	000518464	VALVE, GLOBE, 3/4", 1500#, STEEL, SOCKET	WELD, SPECIAL USE ONLY.	1.00	EA	285.40	285.40
KPP	000518480	WELL, BRASS, MCFADDEN 6" OAL LENGTH	3/4: PROCESS CONNECTION TYPE 2.	5.00	EA	19.34	96.70
KPP	000518506	HANDLE, BREAKER	MOTOR CONTROL BREAKER SW, TYPE R	2.00	EA	216.66	433.31
KPP	000518522	SWITCH	W2	1.00	EA	94.56	94.56
KPP	000518548	SWITCH, W-2	MOTOR CONTROL CENTER	1.00	EA	233.11	233.11
KPP	000518563	RELAY	MG6 SYNCHRONIZER	1.00	EA	706.74	706.74
KPP	000518589	RELAY	CONTROL SYCHRONIZER	1.00	EA	139.81	139.81
KPP	000518605	RELAY, TIMING	F.O. PUMPS	1.00	EA	194.02	194.02
KPP	000518621	DRIVER, SPEAKER, WEATHERPROOF	DRIVER UNIT, UL-LISTED FOR DIVISION 2	2.00	EA	110.29	220.58
KPP	000518647	JOINT	EXPANSION, 51 1/2" X 56 1/2" X 9"	1.00	EA	4,035.16	4,035.16
KPP	000518662	SHEET, 1/8" THICK X 4' X 8', 310/309 SS	(FOR FABRICATION OF EXPLOSION DOOR	1.00	EA	921.97	921.97
KPP	000518688	GASKET	ROUND FLEXITALLIC	316.00	EA	2.94	929.04
KPP	000518704	PACKING	SEAL,	0.00	EA	106.51	0.00
KPP	000518720	GASKET	OVAL FLEXITALLIC,	130.00	EA	3.15	409.50
KPP	000518746	PLATE	OVAL	17.00	EA	168.47	2,863.91
KPP	000518761	ARCH	HANDHOLE	5.00	EA	28.16	140.80
KPP	000518787	PLATE	ROUND	17.00	EA	77.24	1,313.14

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000518803	VALVE	WATER GAUGE	2.00	ST	825.53	1,651.06
KPP	000518829	FLOAT ROD	LO-ALARM	5.00	EA	33.77	168.85
KPP	000518845	FLOAT ROD	HI-ALARM	5.00	EA	30.63	153.15
KPP	000518860	WHISTLE	#100, #200 WATER COLUMNS	8.00	EA	55.80	446.40
KPP	000518886	PIPE NIPPLE, GAGE	6" STAINLESS STEEL	6.00	EA	24.96	149.76
KPP	000518902	GASKET	GRAFOIL	4.00	EA	29.19	116.78
KPP	000518928	MICA SHELD, SIZE 9, #100, 200 & 300	WATER COLUMNS	12.00	EA	56.06	672.67
KPP	000518944	GASKET, GARPHONIC	SIZE: 4.813 x 5.500 x .344	8.00	EA	22.25	178.02
KPP	000518969	WHISTLE ASSY	#100, #200 WATER COLUMNS	0.00	EA	232.87	0.00
KPP	000518970	VALVE, SINGLE ALARM	(FOR SINGLE WHISTLE ALARM COLUMN)	2.00	EA	302.49	604.99
KPP	000518971	WHISTLE, SINGLE	(FOR SINGLE WHISTLE ALARM COLUMN)	3.00	EA	83.33	249.98
KPP	000518985	FLOAT	#100, #200 WATER COLUMNS	1.00	EA	152.50	152.50
KPP	000519009	GAUGE GLASS	#100, #200, #300 WATER COLUMNS	6.00	EA	106.08	636.48
KPP	000519025	WASHER	FLAT, 1/2" 310 S/S	185.00	EA	1.00	184.78
KPP	000519041	NUT	1/2" 310 S/S, K-1, K-2 DAMPERS	80.00	EA	2.70	216.31
KPP	000519066	CAPCREW	1/2" X 2" 310 S/S	80.00	EA	6.77	541.97
KPP	000519082	WASHER	3/4" 310 S/S	21.00	EA	3.29	69.09
KPP	000519108	HEX HEAD NUT	3/4" 310 S/S	15.00	EA	18.59	278.86
KPP	000519124	CAPSCREW	3/4" X 2 3/4" 310 S/S	19.00	EA	32.30	613.79
KPP	000519140	CAPSCREW	3/4" X 3 1/2# 310 S/S	22.00	EA	24.89	547.67
KPP	000519165	LINK	18 7/16"	2.00	EA	182.21	364.42
KPP	000519181	LINK	17 7/16"	2.00	EA	187.42	374.83
KPP	000519207	LINK	15 15/16"	2.00	EA	150.55	301.09
KPP	000519223	LINK	16 9/16"	3.00	EA	173.75	521.24
KPP	000519249	LINK	9 1/4"	2.00	EA	266.03	532.06
KPP	000519264	LINK	13 1/16"	4.00	EA	157.28	629.12
KPP	000519280	BEARING CAP	K-1, K-2 DAMPERS	26.00	EA	49.20	1,279.08
KPP	000519306	BUSHING	SPACER 3/4" X 1 1/8" X 7/8"	20.00	EA	28.12	562.46
KPP	000519322	BLADE	12"	13.00	EA	534.14	6,943.80
KPP	000519348	LINK	14 7/8"	2.00	EA	156.18	312.36
KPP	000519363	BLADE	16"	6.00	EA	663.83	3,982.96
KPP	000519389	POSITIONER, PNEUMATIC	3-27 PSI	2.00	EA	345.49	690.98
KPP	000519405	CAM	FORWARD ACTING	4.00	EA	13.54	54.16
KPP	000519421	CAM	REVERSE ACTING	3.00	EA	13.54	40.62
KPP	000519447	BAR	ROUND, 1" 309 S/S	0.00	EA	522.66	0.00
KPP	000519462	BAR, FLAT,1/4 X 2-1/4 X 10 FT, 309 SS	(TO BE USED TO MAKE WASHER PLATES)	0.00	EA	72.67	0.00
KPP	000519488	FLAT BAR, 1/2" x 2"	310 and/or 309 S/S, 12' lengths	24.00	FT	38.41	921.77
KPP	000519504	SHAFT, OPERATING, 1-1/2"	309 SS WITH 25/32 HOLES	2.00	EA	468.72	937.44
KPP	000519520	VALVE	SUPERHEATER SAFETY	0.00	EA	720.05	0.00
KPP	000519546	VALVE	STEAM DRUM SAFETY	0.00	EA	720.05	0.00
KPP	000519561	TUBE, CORTEN STEEL	2 1/2" X 22' X 14G X .083THK	16.00	EA	22.88	366.07
KPP	000519587	FLANGE ELEMENT	#104, #204 SOOTBLOWERS	1.00	EA	35.73	35.73
KPP	000519603	CAM FOLLOWER	#104, #204, #304 SOOTBLOWERS	11.00	EA	12.89	141.79
KPP	000519629	VALVE LEVER	#104, #204, #304 SOOTBLOWERS	4.00	EA	56.65	226.59
KPP	000519645	CAM, VALVE LIFTING	OPEN, 60 DEGREES	4.00	EA	11.84	47.34
KPP	000519660	CAM, CLOSE, 60 DEG., VALVE LIFTING.		4.00	EA	11.49	45.97
KPP	000519686	BEARING	PILLOW BLOCK	1.00	EA	1,080.13	1,080.13
KPP	000519702	COUPLING	2 1/2" FLEX HUB	2.00	EA	406.64	813.28
KPP	000519728	ADAPTER, ASSEMBLY, 2-3/16	SLEEVE, LOCKNUTAND LOCK WASHER	4.00	EA	33.25	132.99
KPP	000519744	ASSY	FAN WHEEL	0.00	EA	9,820.28	0.00
KPP	000519769	SHAFT	FOR WHEEL ASSY	0.00	EA	7,712.19	0.00
KPP	000519785	RING	OIL, T-SECTION	4.00	EA	0.00	0.00
KPP	000519801	AIR COOLER	REBUILT	1.00	EA	2,308.74	2,308.74
KPP	000519827	BOLTS	8 1/2" COUPLING	0.00	EA	156.00	0.00
KPP	000519843	NUT	1 1/4"	0.00	EA	20.80	0.00
KPP	000519868	FILTER	DISPOSABLE,20" X 20" X 1"	24.00	EA	1.25	30.00
KPP	000519884	COLLECTOR ASSY	K-2 GENERATOR	0.00	EA	31,335.20	0.00
KPP	000519900	COLLECTOR RING ASSY	K-1 TURBINE	0.00	EA	23,046.40	0.00
KPP	000519926	BEARING, MAIN JOURNAL, REBABBITTED	TURBINE #2 POSITION	0.00	EA	2,826.10	0.00
KPP	000519942	BEARING, MAIN JOURNAL, REBABBITTED	TURBINE #1 POSITION	0.00	EA	2,316.83	0.00
KPP	000519967	MAGNETIC PICK-UP, DIGITAL, 1200 OHMS	+ - 20% 400MH, 10 IN/SEC, 50 RPM	1.00	EA	35.37	35.37
KPP	000519983	BUSHING	BONNET, MASONEILAN REGULATOR	1.00	EA	439.47	439.47
KPP	000520007	NUT	CHECK, MASONEILAN REGULATOR	2.00	EA	1.00	2.00
KPP	000520023	PLUG	VALVE	1.00	EA	32.00	32.00
KPP	000520049	CHAMBER	INLET	0.00	EA	3,263.52	0.00
KPP	000520064	CHAMBER	REVERSE	0.00	EA	1,995.76	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000520080	LOCK, HANDWHEEL	SPEED CHANGER	2.00	EA	123.28	246.56
KPP	000520106	PIN, HANDWHEEL LOCK	SPEED CHANGER	2.00	EA	40.00	80.00
KPP	000520122	SPRING, HANDWHEEL LOCK	HANDWHEEL	2.00	EA	162.24	324.48
KPP	000520148	RESTRAINING RING	GLAND RUNNER	1.00	EA	141.44	141.44
KPP	000520163	VALVE	THROTTLE	1.00	EA	2,979.60	2,979.60
KPP	000520189	CARBON BRUSH	K-1 TURBINE EXCITER	0.00	EA	9.07	0.00
KPP	000520205	RING, TURBINE SLIP	TURBINE EXCITER	60.00	EA	17.79	1,067.66
KPP	000520221	BEARING, JOURNAL, 3.5" X 2.5" X 3.5",	BORE DIMENSION/TOLERANCE - 2.503"/	2.00	EA	1,944.80	3,889.60
KPP	000520247	COUPLING	INSULATED	2.00	ST	1,391.91	2,783.82
KPP	000520262	SEAL STRIP	K-1, K-2 TURBINE EXCITER TURNING GEAR	24.00	EA	36.66	879.84
KPP	000520288	LOCKING STRIP	K-1, K-2 TURBINE EXCITER TURNING GEAR	2.00	EA	14.59	29.18
KPP	000520304	TUBE	STAINLESS STEEL 3/4" X 16'2 9/32"	0.00	EA	21.80	0.00
KPP	000520320	TUBE	COPPER NICKLE 3/4" X 16'S 9/32"	0.00	EA	24.46	0.00
KPP	000520346	JOINT	EXPANSION, 8" PIPE SIZE	1.00	EA	482.30	482.30
KPP	000520361	JOINT	EXPANSION 5" ID X 8"	1.00	EA	527.10	527.10
KPP	000520387	RING, VITON. FOR KPP 1 & 2 FEEDWATER	SYSTEM.	22.00	EA	144.00	3,168.00
KPP	000520403	GASKET	K-1, K-2 BOILER FEEDWATER SYSTEM	3.00	EA	35.41	106.24
KPP	000520429	GASKET	K-1, K-2 FEEDWATER SYSTEM	5.00	EA	37.50	187.49
KPP	000520445	BEARING	K-1, K-2 FEEDWATER SYSTEM	2.00	EA	274.91	549.82
KPP	000520460	SEAL, BEARING	#105, #205 F.D. FAN	3.00	EA	35.16	105.48
KPP	000520486	PLUG, BACK		2.00	EA	205.47	410.94
KPP	000520502	PLATE, SPRAY		6.00	EA	238.53	1,431.18
KPP	000520528	NUT	K-1 BURNERS	0.00	EA	93.04	0.00
KPP	000520544	PLATE, SPRAY		4.00	EA	203.93	815.72
KPP	000520569	PLUG		3.00	EA	221.75	665.25
KPP	000520585	SWIRLER	COUNTER CLOCKWISE	1.00	EA	1,550.94	1,550.94
KPP	000520601	ROD, SPARK, IGNITER	K-1 BURNERS	1.00	EA	816.61	816.61
KPP	000520627	TIP, SPARK ROD	K-1 BURNER, GENERAL MAINTENANCE	5.00	EA	317.62	1,588.09
KPP	000520643	CAPACITOR	K-1 BURNERS	4.00	EA	193.96	775.84
KPP	000520668	SEAL CAGE	#237 BOILER FEED PUMP	1.00	EA	190.17	190.17
KPP	000520684	BEARING	BOTTOM CASE	1.00	EA	110.67	110.67
KPP	000520700	BEARING	SERIES CASE	7.00	EA	44.63	312.41
KPP	000520726	GASKET	SHAFT SLEEVE	2.00	EA	104.31	208.62
KPP	000520742	PLUG ASSY	VALVE	1.00	EA	772.50	772.50
KPP	000520767	SEAT	VALVE	1.00	ST	457.63	457.63
KPP	000520783	TIP	BURNERS	0.00	EA	159.19	0.00
KPP	000520809	PLUG	BURNER TIP	0.00	EA	142.67	0.00
KPP	000520825	RING	OPERATING	1.00	EA	57.83	57.83
KPP	000520841	GEAR	PINION	1.00	EA	21.45	21.45
KPP	000520866	DIFFUSER	INNER BOWL	1.00	EA	1,003.63	1,003.63
KPP	000520882	SHUTTER	K-1 FUEL OIL, BURNERS	4.00	EA	87.91	351.64
KPP	000520908	DAMPER BLADE	K-1 FUEL OIL, BURNERS	2.00	EA	81.57	163.14
KPP	000520924	INNER TUBE	K-2 FUEL OIL, BURNERS	3.00	EA	283.70	851.10
KPP	000520940	INTERMEDIATE RING	K-1 FUEL OIL, BURNERS	3.00	EA	287.69	863.07
KPP	000520965	HOSE	4" BURNER	4.00	EA	113.11	452.44
KPP	000520981	PIN	REGISTER, BURNER	59.00	EA	1.07	63.13
KPP	000521005	NUT/BOLT	REGISTER, BURNER	14.00	EA	16.89	236.46
KPP	000521021	NOZZLE	ATOMIZER HEAD & STEAM INJECTION, BURNERS	0.00	EA	144.63	0.00
KPP	000521047	GUN ELBOW ASSY	BURNERS	0.00	EA	163.54	0.00
KPP	000521062	ATOMIZER BODY	BURNERS	0.00	EA	28.25	0.00
KPP	000521088	YOKE	SWING, BURNER	1.00	EA	26.50	26.50
KPP	000521104	NOZZLE	BURNERS	0.00	EA	58.30	0.00
KPP	000521120	BOLT	YOKE SHOULDER,BURNERS	7.00	EA	26.62	186.37
KPP	000521146	CAP	GUN ELBOW, HEX	0.00	EA	7.70	0.00
KPP	000521161	GLAND	PACKING, SQUARE	0.00	EA	5.50	0.00
KPP	000521187	DISC	VALVE	3.00	EA	308.76	926.28
KPP	000521203	INDICATOR	K-1 K-2 FUEL OIL STRAINER	3.00	EA	56.71	170.13
KPP	000521229	SCREW ASSY	VALVE	2.00	EA	220.34	440.68
KPP	000521245	BASKET	K-1 K-2 FUEL OIL STRAINER	2.00	EA	129.11	258.22
KPP	000521260	DOOR	K-1 K-2 FUEL OIL STRAINER	2.00	EA	316.34	632.68
KPP	000521286	VALVE NUT	1 1/2"	1.00	EA	246.27	246.27
KPP	000521302	NOZZLE	K-2 SUPERHEATER SAFETY VALVE	0.00	EA	861.83	0.00
KPP	000521328	DISC INSERT	K-2 SUPERHEATER SAFETY VALVE	0.00	EA	174.25	0.00
KPP	000521344	NOZZLE RING	K-2 SUPERHEATER SAFETY VALVE	0.00	EA	65.63	0.00
KPP	000521369	PACKING, GRAFOIL, 3.00 X 2.38 X 1.00	(3 EACH PER SET)	10.00	EA	22.26	222.56

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000521385	ASSEMBLY, ELEMENT, 2"	MARK #1 AND #2 - SOOT BLOWER	4.00	EA	5,299.23	21,196.91
KPP	000521401	ASSEMBLY, ELEMENT, 2"	MARK #3. - SOOT BLOWER	3.00	EA	2,102.88	6,308.64
KPP	000521427	ELEMENT	MARK #4	4.00	EA	820.88	3,283.52
KPP	000521443	ELEMENT	MARK #5 & #6	4.00	EA	827.67	3,310.68
KPP	000521468	ELEMENT	MARK #7	2.00	EA	737.24	1,474.48
KPP	000521484	LANCE HANGER	K-2 SOOTBLOWER	31.00	EA	45.47	1,409.52
KPP	000521500	DIAPHRAGM	CENTER	1.00	EA	683.50	683.50
KPP	000521526	RING	CASING	4.00	EA	475.25	1,901.00
KPP	000521542	BALL BEARING	LINE	1.00	EA	14.25	14.25
KPP	000521567	IMPELLER	RIGHT HAND	2.00	EA	1,239.00	2,478.00
KPP	000521583	IMPELLER	LEFT HAND	2.00	EA	1,239.00	2,478.00
KPP	000521609	OILER	1/4"NPT, 4 oz	2.00	EA	26.70	53.40
KPP	000521625	SUCTION STAGE PIECE	K-2 FEEDWATER PUMPS	1.00	EA	553.60	553.60
KPP	000521641	PACKING	K-2 FEEDWATER SYSTEM	0.00	ST	70.19	0.00
KPP	000521666	SLEEVE, SHAFT. FOR WORTHINGTON PUMP	SERIAL #81TS80894-1, MODEL #ORS-1396-81	2.00	EA	858.00	1,716.00
KPP	000521682	NUT ASSY	SHAFT SLEEVE	0.00	EA	128.15	0.00
KPP	000521708	SLEEVE	LONG DISTANCE	1.00	EA	232.30	232.30
KPP	000521724	SLEEVE	SHORT DISTANCE	1.00	EA	189.55	189.55
KPP	000521740	BUSHING	BREAKDOWN	1.00	EA	423.65	423.65
KPP	000521765	SHAFT	1 7/8" DIA X 50 1/4" L	1.00	EA	757.68	757.68
KPP	000521781	SEAL RING	K-2 FEEDWATER PUMPS	4.00	EA	88.40	353.60
KPP	000521807	LOCK NUT	BEARING	10.00	EA	4.63	46.28
KPP	000521823	SEAL RING	K-2 FEEDWATER PUMPS	2.00	EA	202.80	405.60
KPP	000521849	GASKET	CASING AND STUFFING BOX	0.00	FT	12.75	0.00
KPP	000521864	PACKING RING	GRAFOIL	0.00	EA	96.51	0.00
KPP	000521880	GLASS, GAUGE	K-2 #23 FEEDWATER HEATER	4.00	EA	79.17	316.67
KPP	000521906	GASKET, GLASS GAUGE	NON-ASBESTOS	30.00	EA	3.92	117.55
KPP	000521922	ASSEMBLY, HOSE, 361616-361616, WITH 1	EACH 2021-16, 1 EA 2022-16, 1 EACH	2.00	EA	173.97	347.93
KPP	000521948	GEAR	OPERATING SHAFT PINION	3.00	EA	100.48	301.44
KPP	000521963	PINION	IDLER	2.00	EA	116.70	233.40
KPP	000521989	RING	AIRDOOR OPERATING	5.00	EA	605.17	3,025.85
KPP	000522003	SEAL, MECHANICAL, (NEW/REBUILT)	1-1/4", TYPE 8, WITH 1/32" THICK	5.00	EA	397.14	1,985.71
KPP	000522029	MECHANICAL SEAL	1 1/2"	0.00	EA	461.72	0.00
KPP	000522045	GASKET	STUFFING BOX TO CASING	3.00	EA	16.80	50.40
KPP	000522060	GASKET	END COVER, PUMP END	1.00	EA	2.54	2.54
KPP	000522086	GASKET	END COVER, COUPLING END	1.00	EA	3.51	3.51
KPP	000522102	GASKET	COVER PLATE TO STUFFING BOX	1.00	EA	3.45	3.45
KPP	000522128	ORING	INNER COVER PLATE	0.00	EA	3.77	0.00
KPP	000522144	ORING	OUTER COVER PLATE	0.00	EA	5.20	0.00
KPP	000522169	OIL RING	K-2 DIFFERENTIAL PUMP	2.00	EA	24.38	48.76
KPP	000522185	ORING	INNER COVER PLATE	1.00	EA	221.67	221.67
KPP	000522201	FLINGER	COUPLING END	1.00	EA	85.80	85.80
KPP	000522227	SPRING	20 STRAIN	0.00	EA	0.15	0.00
KPP	000522243	INSERT	CARBON	0.00	EA	44.20	0.00
KPP	000522268	SEAL RING	TUNGSTEN CARBON	0.00	EA	288.60	0.00
KPP	000522284	SET SCREW	20 STRAIN #5	0.00	EA	0.38	0.00
KPP	000522300	RIDER RING	#298 AIR COMPRESSOR	1.00	EA	76.54	76.54
KPP	000522326	PISTON RING	298 JOY AIR COMPRESSOR	2.00	EA	33.60	67.20
KPP	000522342	UPPER CAGE	TURBINE	0.00	EA	0.00	0.00
KPP	000522367	CAGE	INNER, UPPER	0.00	EA	0.00	0.00
KPP	000522383	CAGE	INNER, LOWER	0.00	EA	0.00	0.00
KPP	000522409	CAGE	LOWER,	0.00	EA	0.00	0.00
KPP	000522425	BLOCK	LEVELING	0.00	ST	15,752.88	0.00
KPP	000522441	BLOCK	LEVELING	0.00	EA	16,619.62	0.00
KPP	000522466	PIN	STRAIGHT	0.00	EA	23.40	0.00
KPP	000522482	SCREW	ADJUSTING	0.00	EA	473.62	0.00
KPP	000522508	BUSHING	K-3 TURBINE	0.00	EA	308.88	0.00
KPP	000522524	BUSHING	K-3 TURBINE	0.00	EA	350.06	0.00
KPP	000522540	BUSHING	K-3 TURBINE	1.00	EA	77.69	77.69
KPP	000522565	BUSHING	K-3 TURBINE	1.00	EA	127.30	127.30
KPP	000522581	BUSHING	K-3 TURBINE	1.00	EA	141.34	141.34
KPP	000522607	GASKET	K-3 TURBINE	0.00	EA	10.30	0.00
KPP	000522623	SPRING	SEAT	0.00	EA	283.61	0.00
KPP	000522649	SPRING	COMPRESSION	0.00	EA	97.34	0.00
KPP	000522664	SEAT	K-3 TURBINE	0.00	EA	186.26	0.00

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000522680	DIAPHRAGM	K-3 TURBINE	0.00	EA	6.55	0.00
KPP	000522706	VALVE	CUP	0.00	EA	381.89	0.00
KPP	000522722	BUSHING	K-3 TURBINE	0.00	EA	371.59	0.00
KPP	000522748	WASHER	FLAT	0.00	EA	35.57	0.00
KPP	000522763	STEM	VALVE	0.00	EA	4,802.62	0.00
KPP	000522789	NUT	HEX	0.00	EA	22.47	0.00
KPP	000522805	RING	K-3 TURBINE	0.00	EA	1,445.18	0.00
KPP	000522821	RING	PISTON	0.00	EA	235.87	0.00
KPP	000522847	BUSHING	K-3 TURBINE	1.00	EA	455.83	455.83
KPP	000522862	TRIP	PISTON	1.00	EA	964.08	964.08
KPP	000522888	SPRING	COMPRESSION	1.00	EA	97.34	97.34
KPP	000522904	PISTON	OPERATING	1.00	EA	927.58	927.58
KPP	000522920	BUSHING	K-3 TURBINE	1.00	EA	276.12	276.12
KPP	000522946	SPRING	OPERATING PISTON	0.00	EA	97.34	0.00
KPP	000522961	BELLOW	ASSY, HYDRON	1.00	EA	885.46	885.46
KPP	000522987	BUSHING	K-3 TURBINE	1.00	EA	4,583.59	4,583.59
KPP	000523001	PLUNGER	RELAY	1.00	EA	1,714.75	1,714.75
KPP	000523027	RING	PISTON	0.00	EA	235.87	0.00
KPP	000523043	BUSHING	K-3 TURBINE	1.00	EA	308.88	308.88
KPP	000523068	BUSHING	K-3 TURBINE	0.00	EA	350.06	0.00
KPP	000523084	BELLOW	HYDRON	1.00	EA	878.90	878.90
KPP	000523100	SPRING	COMPRESSION	1.00	EA	96.41	96.41
KPP	000523126	PISTON	K-3 TURBINE	1.00	EA	1,427.40	1,427.40
KPP	000523142	RING	OIL SEAL	0.00	EA	1,623.02	0.00
KPP	000523167	RING	SEAL	0.00	EA	966.89	0.00
KPP	000523183	SLEEVE	FINISHED	1.00	EA	4,757.25	4,757.25
KPP	000523209	SPRING	LEAF	1.00	EA	119.81	119.81
KPP	000523225	SEAT	CUP VALVE	1.00	EA	385.63	385.63
KPP	000523241	SEAT	CUP VALVE	0.00	EA	299.52	0.00
KPP	000523266	SPRING	COMPRESSION	8.00	EA	99.22	793.76
KPP	000523282	BUSHING	K-3 TURBINE	1.00	EA	131.98	131.98
KPP	000523308	BUSHING	K-3 TURBINE	1.00	EA	128.23	128.23
KPP	000523324	BUSHING	K-3 TURBINE	1.00	EA	140.40	140.40
KPP	000523340	WORM	SPEED CHANGER	0.00	EA	564.41	0.00
KPP	000523365	TRANSMITTER	DIFFERENTIAL PRESSURE, 0-250	0.00	EA	2,110.28	0.00
KPP	000523381	TRANSMITTER, PRESSURE	BAILEY SPARES	0.00	EA	1,803.10	0.00
KPP	000523407	TRANSMITTER, PRESSURE		1.00	EA	1,551.98	1,551.98
KPP	000523423	TRANSMITTER, TEMPERATURE	K-1 - 4	1.00	EA	867.65	867.65
KPP	000523449	ISOLATOR, WIRE LOOP	K-3 INFI-90	1.00	EA	208.32	208.32
KPP	000523464	PLUG, FISHER	INFI-90 SPARES	1.00	EA	884.43	884.43
KPP	000523480	PLUG, STEM	INFI-90 SPARES	1.00	EA	77.32	77.32
KPP	000523506	RING, SEAT	INFI-90 SPARES	1.00	EA	356.50	356.50
KPP	000523522	REPAIR KIT, GASKET	INFI-90 SPARES	1.00	EA	51.21	51.21
KPP	000523548	THERMOCOUPLE	INFI-90 SPARES	0.00	EA	83.65	0.00
KPP	000523563	WHISTLE, ASSY, HI-LO		1.00	EA	581.22	581.22
KPP	000523589	JOINT	EXPANSION	1.00	EA	2,839.22	2,839.22
KPP	000523605	BRUSH, GLASS GAUGE	3/4" X 36"	0.00	EA	10.00	0.00
KPP	000523621	GASKET	FLANGE VALVE	5.00	EA	17.13	85.65
KPP	000523647	BRUSH, GLASS GAUGE	5/8" X 36"	8.00	EA	19.97	159.74
KPP	000523662	GASKET, WATER COLUMN	CORRUGATED, STEEL	0.00	EA	5.14	0.00
KPP	000523688	GASKET, NON ASBESTOS	WATER COLUMN	12.00	EA	3.64	43.72
KPP	000523704	GASKET, GAUGE GLASS, GRAFOIL	FOR K3 & K4 WATER COLUMN	18.00	EA	38.90	700.13
KPP	000523720	GLASS, GAUGE	12 5/8"	9.00	EA	56.30	506.70
KPP	000523746	GLASS, GAUGE W/ GASKET	6 1/2"	6.00	EA	57.17	343.01
KPP	000523761	TUBE	2" X 7'3" X 14G X .083 WALL	19.00	EA	15.44	293.41
KPP	000523787	SPRING, 1.56 OD, FL = 3.94IN, 11 COILS	K-3 SOOTBLOWER	3.00	EA	99.87	299.61
KPP	000523803	TUBE	2" X 20'3" X 14G X .083 WALL	185.00	EA	38.47	7,116.56
KPP	000523829	SLEEVE	K-3 SOOTBLOWER	1.00	EA	363.98	363.98
KPP	000523845	NOZZLE ARM, TUBLAR AIR HEATER	2", SCH 80, 446 SS PIPE, 3' 1-1/2" LONG	0.00	EA	1,235.42	0.00
KPP	000523860	GEAR	IDLER	3.00	EA	55.08	165.24
KPP	000523886	SEAT	MAIN VALVE	1.00	EA	259.17	259.17
KPP	000523902	BRONZE BUSHING	BRONZE, EXTENSION TUBE	2.00	EA	8.23	16.46
KPP	000523928	RING	PISTON	4.00	ST	84.18	336.71
KPP	000523944	LINER	MAIN	1.00	EA	48.27	48.27
KPP	000523969	BUSHING	K-3 SOOTBLOWER	4.00	EA	4.34	17.37
KPP	000523985	COVER	COVER	1.00	EA	9.98	9.98

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000524009	VALVE	MAIN	1.00	EA	766.37	766.37
KPP	000524025	GEAR	GEAR, PINION, 10 TOOTH 9P SAE 4140	2.00	EA	21.64	43.29
KPP	000524041	BUSHING, D HEAD	K-3 SOOTBLOWER	1.00	EA	68.81	68.81
KPP	000524066	PLATE	REACTION	0.00	EA	290.12	0.00
KPP	000524082	SHAFT, OPERATING (FTDFTMNL HD)	K-3 SOOTBLOWER	1.00	EA	23.36	23.36
KPP	000524108	BEARING, FLANGED, FOR VALVE LEVER PIN	kAHULUI 1 - 2 - 3 SOOT BLOWER	5.00	EA	0.73	3.64
KPP	000524124	WASHER	OPERATING SHAFT	0.00	EA	0.31	0.00
KPP	000524140	SHAFT	GEAR CLUSTER	7.00	EA	12.41	86.87
KPP	000524165	WASHER	SPACER	0.00	EA	0.28	0.00
KPP	000524181	BEARING	OILITE	0.00	EA	0.27	0.00
KPP	000524207	SPRING	PILOT VALVE	1.00	EA	10.04	10.04
KPP	000524223	PACKING, CRANE, .75 X .38 X .19	K-3 SOOTBLOWER	2.00	EA	31.73	63.46
KPP	000524249	WASHER, SPRING	K-3 SOOTBLOWER	1.00	EA	11.86	11.86
KPP	000524264	WASHER, PILOT POPPET VALVE STEEL	K-3 SOOTBLOWER	1.00	EA	24.28	24.28
KPP	000524280	VALVE, LOCK	K-3 SOOTBLOWER	1.00	EA	46.21	46.21
KPP	000524306	PACKING, PHOS .75 X .378 BRONZE	K-3 SOOTBLOWER	2.00	EA	32.76	65.52
KPP	000524322	LANCE, 17' 9"	KAHULUI #3 RETRACTABLE SOOTBLOWER	2.00	EA	887.38	1,774.76
KPP	000524348	NIPPLE	FOR LANCE (ABOVE)	1.00	EA	120.43	120.43
KPP	000524363	ELEMENT, STEEL	#6 LOCATION	2.00	EA	396.94	793.88
KPP	000524389	ELEMENT, VULCROM	DIAMETER: 2", LENGTH: 208"	3.00	EA	1,251.83	3,755.50
KPP	000524405	ELEMENT, HYVULOY, #2 LOCATION	KAHULUI 3 SOOTBLOWER	1.00	EA	2,244.32	2,244.32
KPP	000524421	ASSY	LANCE & FLANGE	1.00	EA	1,118.40	1,118.40
KPP	000524447	DISC	VALVE	12.00	EA	4.97	59.66
KPP	000524462	TUBE, FEED	FOR RETRACTABLE BLOWER	1.00	EA	617.34	617.34
KPP	000524488	GASKET	FLEXITALLIC	3.00	EA	35.21	105.64
KPP	000524504	GEAR	WORM	1.00	EA	94.85	94.85
KPP	000524520	GEAR	WORM	1.00	EA	75.48	75.48
KPP	000524546	BEARING	BALL	1.00	EA	7.98	7.98
KPP	000524561	BEARING	BALL	2.00	EA	10.77	21.54
KPP	000524587	BEARING	BALL	1.00	EA	7.44	7.44
KPP	000524603	BEARING	BALL	2.00	EA	42.65	85.30
KPP	000524629	GASKET	COVER	1.00	EA	0.88	0.88
KPP	000524645	GASKET	SIDE COVER	2.00	EA	2.98	5.96
KPP	000524660	HEAD	COMPLETE WITH ACCESSORIES	2.00	EA	448.73	897.46
KPP	000524686	GASKET	SPROCKET GEAR COVER	1.00	EA	1.99	1.99
KPP	000524702	KLOZURE	K-3 SOOTBLOWER	1.00	EA	7.40	7.40
KPP	000524728	SEAL	OIL	1.00	EA	12.92	12.92
KPP	000524744	SEAL	SPROCKET SHAFT OIL	1.00	EA	10.78	10.78
KPP	000524769	SHIM	K-3 SOOTBLOWER	2.00	EA	3.76	7.52
KPP	000524785	SHIM	K-3 SOOTBLOWER	2.00	EA	6.21	12.42
KPP	000524801	PACKING	RING	4.00	EA	54.64	218.57
KPP	000524827	BUSHING	YOKE	1.00	EA	116.29	116.29
KPP	000524843	LINER	BEARING	2.00	EA	1,818.46	3,636.92
KPP	000524868	COUPLING	COMPLETE	0.00	EA	342.52	0.00
KPP	000524884	RING	OIL	2.00	EA	111.85	223.70
KPP	000524900	FLANGE	K-3 DAMPERS	2.00	EA	3.56	7.12
KPP	000524926	FLANGE	K-3 DAMPERS	2.00	EA	3.56	7.12
KPP	000524942	CABLE, 18" W/ PROBE	VIBRATION	1.00	EA	133.12	133.12
KPP	000524967	BEARING, MAIN JOURNAL, REBABBITTED	TURBINE #1 POSITION	0.00	EA	2,722.06	0.00
KPP	000524983	BEARING, MAIN JOURNAL, REBABBITTED	TURBINE #2 POSITION	0.00	EA	2,806.80	0.00
KPP	000525006	SWITCH, PRESSURE	MERCOID, TURBINE TURNING GEAR	1.00	EA	69.60	69.60
KPP	000525022	STEM	VALVE, STEAM REGULATOR	1.00	EA	101.26	101.26
KPP	000525048	PIN	VALVE PLUG, STEAM REGULATOR	3.00	EA	0.86	2.58
KPP	000525063	PLUG, VALVE	MAIN, STEAM REGULATOR	1.00	EA	357.31	357.31
KPP	000525089	PLUG	VALVE, STEAM REGULATOR	2.00	EA	54.53	109.06
KPP	000525105	NUT	CHECK, MASONEILAN REGULATOR	0.00	EA	0.00	0.00
KPP	000525121	BUSHING, VALVE	BONNET, STEAM REGULATOR	1.00	EA	455.17	455.17
KPP	000525147	POTENTIOMETER	TURBINE EXCITER & TYPE PRX-300 REG	1.00	EA	130.00	130.00
KPP	000525162	BEARING	REBABBITTED	1.00	EA	755.50	755.50
KPP	000525188	SPINDLE	BRUSH HOLDER	19.00	EA	2.17	41.23
KPP	000525204	BRUSH	CARBON	121.00	EA	7.16	866.36
KPP	000525220	FAN	BOX, 20"	1.00	EA	18.74	18.74
KPP	000525246	FILTER, FIBERGLASS, DISPOSABLE	WITH METAL, 23 -1/2" X 23 -1/2" X 1" FS	24.00	EA	1.92	46.00
KPP	000525261	TUBE	STAINLESS STEEL CONDENSER	0.00	EA	28.61	0.00
KPP	000525287	O-RING, 1/4" DIA X 7" O.D.,	FOR #386 DRIP PUMP	0.00	EA	20.50	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000525303	BEARING	INTERMEDIATE	3.00	EA	130.42	391.26
KPP	000525329	BEARING, UPPER	K-3 CONDENSATE PUMP	2.00	EA	271.44	542.88
KPP	000525345	IMPELLER	#385 DRIP PUMP	1.00	EA	746.89	746.89
KPP	000525360	LINER	INNER	1.00	EA	671.90	671.90
KPP	000525386	LINER	OUTER	1.00	EA	671.90	671.90
KPP	000525402	DIAPHRAGM	CUP VALVE	7.00	EA	22.55	157.85
KPP	000525428	RING	PACKING	3.00	EA	192.40	577.20
KPP	000525444	SPRING	K-3 TURBINE AUX, LUBE OIL STEAM PUMP	3.00	EA	44.72	134.16
KPP	000525469	KEYS	GLAND	0.00	EA	37.44	0.00
KPP	000525485	SLEEVE, SHAFT 1.688 (RIGHT HAND)	CCN:10405661, SST 410, PPN, 993V	2.00	EA	801.57	1,603.14
KPP	000525501	SLEEVE, SHAFT 1.688 (LEFT HAND)	CCN:10405662,SST 410, PPN, 993V	2.00	EA	1,612.00	3,224.00
KPP	000525527	GASKET	SHAFT SLEEVE	4.00	EA	37.88	151.52
KPP	000525543	SEPARATOR	MESH	0.00	EA	774.80	0.00
KPP	000525568	TUBE	U-SHAPED	171.00	EA	70.29	12,019.59
KPP	000525584	SEAL	LAMIFLEX	2.00	EA	443.04	886.08
KPP	000525600	JOINT, EXPANSION, 16' DIA. X 12" LONG	INCLUDING FLANGE, HEAVY DUTY	1.00	EA	1,446.78	1,446.78
KPP	000525626	SHAFT	STAINLESS STEEL	1.00	ST	4,820.56	4,820.56
KPP	000525642	IMPELLER	K-1, K-2, K-3 CIRCULATOR	1.00	EA	7,802.51	7,802.51
KPP	000525667	NUT	IMPELLER	0.00	EA	249.70	0.00
KPP	000525683	RING, RETAINING, INTERNAL	3-1/4" STAINLESS STEEL	10.00	EA	24.05	240.54
KPP	000525709	CASING, CIRCULATING GUIDE VANE	CAST IRON	1.00	EA	7,948.72	7,948.72
KPP	000525725	SHAFT	STAINLESS STEEL, ROUND BAR	0.00	EA	857.53	0.00
KPP	000525741	BEARING, LOACH, 2-1/2" X 3-3/8" X 10"	KAHULUI 1, 2 & 3 CIRCULATORS	6.00	EA	105.17	631.02
KPP	000525766	BEARING, HORNED MARINE, 2-1/4"X3-3/8"X9"	KAHULUI 1, 2, & 3 CIRCULATORS	13.00	EA	100.09	1,301.21
KPP	000525782	SEAL, SHAFT, 1-3/4" DIAMETER, MODEL	#D-814 (FLANGED), STAINLESS STEEL,	0.00	EA	858.00	0.00
KPP	000525808	SLEEVE	SHAFT, 1 3/8"	0.00	EA	149.40	0.00
KPP	000525824	RING, RETAINING	CIRCULATOR	2.00	EA	13.94	27.88
KPP	000525840	SHAFT	BEARING FRAME	0.00	EA	352.35	0.00
KPP	000525865	IMPELLER	K-3 SALTWATER PUMP	0.00	EA	543.24	0.00
KPP	000525881	GASKET	SCREW	0.00	EA	19.82	0.00
KPP	000525907	ORING	K-3 SALTWATER PUMP	0.00	EA	4.35	0.00
KPP	000525923	CAPSCREW, IMPELLER	KAHULUI 3 SALTWATER PUMP	1.00	EA	4.35	4.35
KPP	000525949	WASHER	IMPELLER	2.00	EA	3.37	6.74
KPP	000525964	SEAL, MECHANICAL, 1-1/2", TYPE 21	DWG. CFD1197/1C	2.00	EA	231.51	463.01
KPP	000525980	GASKET	CASING COVER	2.00	EA	3.67	7.34
KPP	000526004	STRAINER	K-3 FUEL OIL PUMP	3.00	EA	410.29	1,230.87
KPP	000526020	TIP	K-3 BURNERS	0.00	EA	215.77	0.00
KPP	000526046	PLUG	K-3 BURNERS	0.00	EA	171.18	0.00
KPP	000526061	PEEPHOLE	ASSY	4.00	EA	10.00	40.00
KPP	000526087	ORING	K-3 BURNERS	0.00	EA	3.00	0.00
KPP	000526103	RING	AIR OPERATION	0.00	EA	628.07	0.00
KPP	000526129	SWIRLER	K-3 BURNERS	1.00	EA	1,456.00	1,456.00
KPP	000526145	PLUG	START-UP	1.00	ST	375.00	375.00
KPP	000526160	DIFFUSER	K-3 BURNERS	0.00	EA	188.01	0.00
KPP	000526186	ORING	K-3 BURNERS	10.00	EA	3.77	37.70
KPP	000526202	GASKET	COPPER FERRULE	60.00	EA	3.12	186.98
KPP	000526228	HOSE	BRONZE	4.00	EA	103.19	412.76
KPP	000526244	TUBE	PERFORATED	6.00	EA	82.68	496.08
KPP	000526269	PINION	IDLER, 3"	4.00	EA	116.70	466.80
KPP	000526285	ASSY	TIP END	2.00	EA	379.35	758.70
KPP	000526301	RING	INSULATORS/RETAINING	4.00	ST	4.00	16.00
KPP	000526327	ROD	HI-TENSION	4.00	EA	29.25	117.00
KPP	000526343	ROD	IGNITOR	4.00	EA	20.00	80.00
KPP	000526368	SLEEVE	TEFLON	1.00	EA	3.00	3.00
KPP	000526384	SLEEVE	PYREX	2.00	EA	15.21	30.42
KPP	000526400	SPARK PLUG	K-3 BURNERS	1.00	EA	20.00	20.00
KPP	000526426	TRANSFORMER	K-3 BURNERS	1.00	EA	156.00	156.00
KPP	000526442	HOSE	K-3 BURNERS	3.00	EA	101.04	303.12
KPP	000526467	DIAPHRAGM	IGNITOR	1.00	EA	12.06	12.06
KPP	000526483	HARNESS	K-3 BURNERS	2.00	EA	301.60	603.20
KPP	000526509	PACKING	GRAFOIL, 1 3/4 X 2 1/2	0.00	EA	88.31	0.00
KPP	000526525	SPRAY PLATE	K-3 BURNERS	0.00	EA	192.70	0.00
KPP	000526541	PLUG	K-3 BURNERS	4.00	EA	207.49	829.96
KPP	000526566	SLEEVE	SHAFT	2.00	EA	1,114.88	2,229.76
KPP	000526582	GASKET	CASE	6.00	EA	30.61	183.66

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000526608	GASKET	K-3 DIFFERENTIAL PUMP	0.00	EA	19.96	0.00
KPP	000526624	THROWER	OIL	4.00	EA	16.51	66.04
KPP	000526640	RING	OIL	4.00	EA	18.58	74.32
KPP	000526665	FLINGER	COUPLING END	1.00	EA	53.30	53.30
KPP	000526681	FLINGER	PUMP END	2.00	EA	170.10	340.20
KPP	000526707	GASKET	END COVER COUPLING END	2.00	EA	3.92	7.84
KPP	000526723	GASKET	SHAFT SLEEVE	1.00	EA	3.51	3.51
KPP	000526749	PUMP, MILTON ROY CHEMICAL FEED	WITH 3/4 HP 3 PHASE 230/640 TEFC MOTOR	1.00	EA	2,960.23	2,960.23
KPP	000526764	GASKET	END COVER PUMP END	2.00	EA	4.83	9.66
KPP	000526780	GASKET	COOLING CART TO BEARING HOUSING	1.00	EA	4.50	4.50
KPP	000526806	GASKET	MECHANICAL SEAL,GLAND TO STUFFING BOX	1.00	EA	6.00	6.00
KPP	000526822	GASKET	STUFFING BOX TO CASING	8.00	EA	45.23	361.84
KPP	000526848	GASKET	COVER PLATE TO STUFFING BOX	1.00	EA	3.51	3.51
KPP	000526863	MECHANICAL SEAL,1-3/4", CONSISTING OF:	#R901191-28 ROTARY ASSY AND	2.00	EA	2,577.96	5,155.92
KPP	000526889	SHAFT SLEEVE	K-3 #357 DIFFERENTIAL PUMP	2.00	EA	266.76	533.52
KPP	000526905	REPAIR KIT, SOLENOID	FUEL OIL TRIP	1.00	EA	474.97	474.97
KPP	000526921	PLATE	PROCESS WATER SIDE	3.00	EA	160.67	482.01
KPP	000526947	PLATE	CONTOUR, OIL SIDE	0.00	EA	250.51	0.00
KPP	000526962	DIAPHRAGM	3 3/8	2.00	EA	16.50	33.00
KPP	000526988	PLATE	CONTOUR OIL	3.00	EA	76.44	229.32
KPP	000527002	PLATE	CONTOUR WATER SIDE	2.00	EA	89.36	178.72
KPP	000527028	DIAPHRAGM	2-7/8"	1.00	EA	16.55	16.55
KPP	000527044	RING	CARBON PACKING	4.00	EA	73.69	294.76
KPP	000527069	GASKET	HEAD CYLINDER	4.00	EA	7.89	31.56
KPP	000527085	GASKET	SETS	0.00	ST	6.13	0.00
KPP	000527101	ELEMENT	FILTER 398AG	2.00	EA	123.66	247.32
KPP	000527127	RING	CARBON RIDER SOLID	4.00	EA	95.16	380.64
KPP	000527143	RING, 3 SEGMENTS	CARBON, SPLIT	3.00	ST	71.68	215.04
KPP	000527168	RING, 4 SEGMENTS	CARBON, SPLIT	4.00	ST	71.94	287.76
KPP	000527184	VALVE SET, FEATHER, (2 PER SET)	WORTHINGTON AIR COMPRESSOR	18.00	ST	1.96	35.28
KPP	000527200	HOUSING	PISTON RING	2.00	EA	639.77	1,279.54
KPP	000527226	GASKET KIT	WORTHINGTON AIR COMPRESSOR	15.00	EA	4.99	74.87
KPP	000527242	GASKET, DIAMOND, GRAPHITE	3-5/16 X 4-3/16 X .125	430.00	EA	5.92	2,546.68
KPP	000527267	GASKET, RING, GRAPHITE	3.125 X 3.563 X .125	517.00	EA	4.23	2,186.44
KPP	000527283	TAPE	1/4" GRAPHITE	5.00	RL	7.40	37.00
KPP	000527309	TUBE	2 1/2" X 10'	0.00	EA	359.65	0.00
KPP	000527325	WELD RING	SUPERHEATER TUBES	8.00	EA	11.93	95.44
KPP	000527341	SPRAYER PLATE	K-4 BURNERS	5.00	EA	57.51	287.55
KPP	000527366	SPRAYER HEAD	Y-JET	5.00	EA	59.28	296.40
KPP	000527382	JOINT	EXPANSION, 38 X 823/4	1.00	EA	2,806.74	2,806.74
KPP	000527408	JOINT, EXPANSION, DUCT, HOLZ 501HT/1000	FLUE, SIZE: 27' X 5-1/4"	1.00	EA	3,163.34	3,163.34
KPP	000527424	DISC	2" SUPER HEATER SAFETIES	0.00	EA	584.88	0.00
KPP	000527440	DISC	2 1/2" SUPER HEATER SAFETIES	0.00	EA	525.91	0.00
KPP	000527465	DISC	2 1/2" SUPER HEATER SAFETIES	0.00	EA	525.91	0.00
KPP	000527481	CARD, AUTO POTENTIAL BOILER FLAME	DETECTOR, MANUAL	1.00	EA	406.87	406.87
KPP	000527507	GASKET	FLAME DETECTOR	4.00	EA	38.94	155.76
KPP	000527523	GASKET	FLAME DETECTOR	4.00	EA	11.14	44.56
KPP	000527549	FILTER, AIR, SMOKE EYE	LAND INSTRUMENTS AIR FILTER ELEMENT	8.00	EA	15.00	119.96
KPP	000527564	ELEMENT	AIR FILTER	6.00	EA	67.65	405.87
KPP	000527580	CLAMP	LONG/SHORT	2.00	EA	1.05	2.10
KPP	000527606	CLAMP	EVEN	4.00	EA	1.04	4.16
KPP	000527622	NUT	ACORN, 5/8"	18.00	EA	2.17	39.06
KPP	000527648	DISC	VALVE & STEM ASSY	3.00	EA	157.92	473.77
KPP	000527663	CAP, VALVE		1.00	EA	367.33	367.33
KPP	000527689	BODY	VALVE	1.00	EA	413.48	413.48
KPP	000527705	WHISTLE	ASSY	1.00	EA	221.42	221.42
KPP	000527721	GASKET KIT, GAUGE GLASS	K-4 WATER COLUMNS	24.00	EA	125.71	3,017.08
KPP	000527747	GASKET	COPPER	9.00	EA	2.74	24.62
KPP	000527762	GASKET	COPPER	7.00	EA	1.55	10.88
KPP	000527788	GASKET, 1" WIDE, NON-ASBESTOS	KAHULUI UNIT 4 WATER COLUMNS	12.00	EA	6.21	74.57
KPP	000527804	LENS, STRIP	GAUGE GLASS	5.00	EA	214.74	1,073.70
KPP	000527820	GLASS, REFLEX GROOVED	18" LONG, 1" WIDE	2.00	EA	122.00	244.00
KPP	000527846	VALVE	SEAT	5.00	EA	52.47	262.33

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000527861	HOT BASKET	6"	0.00	EA	906.55	0.00
KPP	000527887	MOTOR, 5 HP, 1725 RPM, 184T FRAME,	ENCLOSED.	2.00	EA	259.95	519.89
KPP	000527903	COLD BASKET	2"	0.00	EA	906.55	0.00
KPP	000527929	HUB ASSY	SEAL RING & BRACKET	1.00	ST	9,648.65	9,648.65
KPP	000527945	PUMP/MOTOR	ASSY	0.00	EA	604.34	0.00
KPP	000527960	MOTOR	1/6 HP	1.00	EA	519.20	519.20
KPP	000527986	FILTER	OIL	1.00	EA	5.29	5.29
KPP	000528000	CONE	BEARING	0.00	EA	19.40	0.00
KPP	000528026	CUP	BEARING	1.00	EA	8.95	8.95
KPP	000528042	GEAR	K-4 AIRHEATER SOOTBLOWER	1.00	EA	212.33	212.33
KPP	000528067	GEAR	WORM	1.00	EA	83.15	83.15
KPP	000528083	PIN	5-GROOVE WORM GEAR	0.00	EA	0.18	0.00
KPP	000528109	PACKING	K-4 SOOTBLOWER	1.00	EA	19.14	19.14
KPP	000528125	SEAL	OIL	1.00	EA	3.30	3.30
KPP	000528141	SEAL	OIL	1.00	EA	3.66	3.66
KPP	000528166	ELEMENT	ASSY	1.00	EA	379.33	379.33
KPP	000528182	ELEMENT, G98, 2" DIA WITH 37 JETS	REQUIRES SPECIAL WELD, OAL: 14' 9-5/8"	1.00	EA	2,015.52	2,015.52
KPP	000528208	SHIM	GASKET	2.00	EA	1.14	2.28
KPP	000528224	KEYS	DRIVE GEAR REDUCING	2.00	EA	15.13	30.26
KPP	000528240	BEARING	K-4 SOOTBLOWER	6.00	EA	159.30	955.78
KPP	000528265	TRIGGER (360 DEGREE BLOWING)	K-4 SOOT BLOWER	1.00	EA	833.56	833.56
KPP	000528281	CAM, (360 DEGREE BLOWING)	K-4 SOOT BLOWER	3.00	EA	164.28	492.84
KPP	000528307	GASKET	INLET, COPPER	7.00	EA	2.65	18.55
KPP	000528323	GASKET	FLANGE CHAIN DRIVE	12.00	EA	12.16	145.91
KPP	000528349	GASKET	OUTLET	0.00	EA	6.91	0.00
KPP	000528364	GEAR	PINION	2.00	EA	29.33	58.66
KPP	000528380	PACKING, SCREW, TUBE.	K-4 SOOTBLOWER	4.00	EA	23.55	94.18
KPP	000528406	PACKING, VALVE		4.00	EA	5.64	22.54
KPP	000528422	PACKING	K-4 SOOTBLOWER, I.K.	7.00	EA	53.44	374.06
KPP	000528448	SEAL	OIL	3.00	EA	9.67	29.01
KPP	000528463	SEAL	OIL	2.00	EA	4.66	9.32
KPP	000528489	SEAL	OIL	2.00	EA	10.61	21.22
KPP	000528505	TUBE, SWIVEL ASSY		1.00	EA	249.60	249.60
KPP	000528521	VALVE ASSY	POPPET	1.00	EA	775.79	775.79
KPP	000528547	RETAINER	& BALL ASSY	2.00	EA	4.89	9.78
KPP	000528562	DISC	PRESSURE CONTROL	2.00	EA	35.46	70.92
KPP	000528588	NUT	VALVE STEM PACKING	3.00	EA	7.62	22.86
KPP	000528604	ASSEMBLY, GOOSENECK & VALVE, S-600,	CW, CS, G98.	1.00	EA	1,527.18	1,527.18
KPP	000528620	FLANGE	COMPANION	1.00	EA	122.61	122.61
KPP	000528646	GASKET	GOOSENECK ASSY	2.00	EA	12.67	25.34
KPP	000528661	GUIDE	VALVE STEM - CHAIN DRIVE	2.00	EA	30.94	61.88
KPP	000528687	NUT	VALVE STEM RETAINER - CHAIN DRIVE	2.00	EA	12.92	25.84
KPP	000528703	STEM	VALVE - CHAIN DRIVE	2.00	EA	22.92	45.84
KPP	000528729	PIN	LOCK - CHAIN DRIVE	2.00	EA	3.90	7.80
KPP	000528745	WASHER	VALVE RETAINER - CHAIN DRIVE	6.00	EA	4.18	25.08
KPP	000528760	SEAT	FLEXIBLE VALVE - CHAIN DRIVE	2.00	EA	116.64	233.28
KPP	000528786	RETAINER	VALVE - CHAIN DRIVE	7.00	EA	1.64	11.48
KPP	000528802	DISC	VALVE - FLEXIBLE CHAIN	2.00	EA	66.67	133.34
KPP	000528828	SPRING	VALVE - CHAIN	1.00	EA	2.40	2.40
KPP	000528844	WASHER, BALL THRUST - CHAIN	K-4 SOOTBLOWER	10.00	EA	5.14	51.43
KPP	000528869	YOKE	VALVE - CHAIN	3.00	EA	1.73	5.19
KPP	000528885	SEAL KIT	COUPLING	1.00	EA	36.20	36.20
KPP	000528901	INSERT	BABBIT BEARING	1.00	EA	504.00	504.00
KPP	000528927	BEARING	REBABBITTED	1.00	EA	1,082.65	1,082.65
KPP	000528943	COLLAR	THRUST,SPLIT	3.00	EA	65.20	195.60
KPP	000528968	JOINT	EXPANSION	1.00	EA	1,500.00	1,500.00
KPP	000528984	PLATE	THRUST	0.00	EA	124.08	0.00
KPP	000529008	RING	OIL	2.00	ST	43.45	86.90
KPP	000529024	BRUSH, CARBON	TURBINE EXCITER	120.00	EA	15.00	1,799.88
KPP	000529040	BRUSH	CARBON	100.00	EA	15.74	1,573.86
KPP	000529065	BLOCK	PIVOT - 41, 505-ARGO	1.00	EA	414.68	414.68
KPP	000529081	COIL REPLACE KIT	115V, SIZE 2, 60Hz	1.00	EA	106.64	106.64
KPP	000529107	RELAY	LATCHING	2.00	EA	262.90	525.80
KPP	000529123	LINER, BEARING - DU, CAM SHAFT	K-4 TURBINE	5.00	EA	79.52	397.59
KPP	000529149	PIN	K-4 TURBINE	0.00	EA	32.41	0.00
KPP	000529164	SEAT	VALVE, 3 1/2"	1.00	EA	2,243.19	2,243.19

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000529180	SEAT	VALVE, 2 1/2"	1.00	EA	1,901.40	1,901.40
KPP	000529206	SEAT	VALVE, 2 1/4"	1.00	EA	1,893.18	1,893.18
KPP	000529222	PIN (1.25D X 4.26L), CAM SHAFT ROLLER	K-4 TURBINE	2.00	EA	62.76	125.52
KPP	000529248	RETAINER, DU, ASM	K-4 TURBINE	1.00	EA	919.48	919.48
KPP	000529263	BEARING - D.U., LEVER ROD	K-4 TURBINE	2.00	EA	40.23	80.46
KPP	000529289	BEARING	K-4 TURBINE GENERATOR	1.00	EA	5,666.19	5,666.19
KPP	000529305	BUSHING	K-4 TURBINE STEAM SEAL REGULATOR	2.00	EA	82.58	165.16
KPP	000529321	SEAT ASSY	VALVE	1.00	EA	1,901.40	1,901.40
KPP	000529347	RING, PISTON, STEAM SEAL REGULATOR	K-4 TURBINE	1.00	EA	286.18	286.18
KPP	000529362	ROD	PIVOT	1.00	EA	118.56	118.56
KPP	000529388	VALVE	NEEDLE	1.00	EA	43.95	43.95
KPP	000529404	SPRING-42 G07-ARGO, STEAM SEAL REGULATOR	K-4 TURBINE	1.00	EA	322.23	322.23
KPP	000529420	DIA BELLOW	K-4 TURBINE	1.00	EA	449.60	449.60
KPP	000529446	ROD	PIVOT	1.00	EA	30.00	30.00
KPP	000529461	GASKET	K-4 TURBINE STEAM SEAL REGULATOR	1.00	EA	3.76	3.76
KPP	000529487	LINER, BEARING - DU	CAM SHAFT PINION #28,	2.00	EA	55.75	111.49
KPP	000529503	RELAY, K/X	AUXILIARY BREAKERS	2.00	EA	1,513.66	3,027.31
KPP	000529529	Y RELAY	AUXILIARY BREAKERS	1.00	EA	811.80	811.80
KPP	000529545	CLOSING COIL	AUXILIARY BREAKERS	2.00	EA	449.35	898.70
KPP	000529560	TRIP COIL	AUXILIARY BREAKERS	1.00	EA	895.41	895.41
KPP	000529586	SWITCH	AUXILIARY BREAKERS	2.00	EA	626.02	1,252.04
KPP	000529602	AUXILIARY SWITCH	AUXILIARY BREAKERS	1.00	EA	201.24	201.24
KPP	000529628	LINER	BEARING, 42, G16	1.00	EA	19.83	19.83
KPP	000529644	LINER, 5 X 6.16, #1 BEARING	K-4 TURBINE	0.00	EA	4,493.75	0.00
KPP	000529669	LINER	PEDESTAL BEARING	1.00	EA	2,149.92	2,149.92
KPP	000529685	NOZZLE	SPRAY	1.00	EA	218.39	218.39
KPP	000529701	RING, STEM PACKING	STAGES 9 - 10 - 11 - 12 - 13	5.00	EA	1,664.42	8,322.12
KPP	000529727	RING, PACKING - 526W01-1 STAGE 14	RING 18	1.00	EA	2,203.15	2,203.15
KPP	000529743	ASSEMBLY, RETAINER	TURBINE	10.00	EA	89.29	892.86
KPP	000529768	SPRING, RETAINER ASSY	K-4 TURBINE	2.00	EA	24.04	48.08
KPP	000529784	SPRING, FLAT	K-4 TURBINE	30.00	EA	12.47	374.04
KPP	000529800	SPRING	K-4 TURBINE	6.00	EA	22.29	133.72
KPP	000529826	SHAFT	THRUST	1.00	EA	1,825.13	1,825.13
KPP	000529842	PIN	VALVE	2.00	EA	34.96	69.92
KPP	000529867	STEM	VALVE	1.00	EA	3,909.91	3,909.91
KPP	000529883	COLLAR	K-4 TURBINE	3.00	EA	735.78	2,207.34
KPP	000529909	PIN	K-4 TURBINE	6.00	EA	167.01	1,002.08
KPP	000529925	ROLLER, VALVE LIFT LEVER	K-4 TURBINE	6.00	EA	140.52	843.12
KPP	000529941	ROLLER	K-4 TURBINE	1.00	EA	419.96	419.96
KPP	000529966	BEARING - 42 G16, CAM SHAFT ROLLER	DU BRUSH	6.00	EA	19.80	118.81
KPP	000529982	NUT	CHECK	6.00	EA	14.74	88.43
KPP	000530006	BEARING	WORM DRIVE	1.00	EA	2,121.73	2,121.73
KPP	000530022	BEARING	WORM DRIVE	1.00	EA	2,121.73	2,121.73
KPP	000530048	GASKET, 8-900	INLET FLANGE FLEXITALLIC	1.00	EA	124.20	124.20
KPP	000530063	BRUSH, ASSEMBLY, GROUNDING	FOR K-4 TURBINE - S/N 173315	2.00	EA	2,138.90	4,277.80
KPP	000530089	BOLT	EMERGENCY	6.00	EA	3.54	21.25
KPP	000530105	LOCKWASHER	K-4 TURBINE	9.00	EA	31.94	287.42
KPP	000530121	PISTON, PRIMARY RELAY, (DEVIATED PISTON)		1.00	EA	842.72	842.72
KPP	000530147	SPINDLE	PRIMAY RELAY	1.00	EA	780.85	780.85
KPP	000530162	PIVOT BLOCK	K-4 TURBINE	0.00	EA	45.00	0.00
KPP	000530188	RING, PACKING - 526W01-0, STAGE 2-3	RINGS 6 & 7	2.00	EA	1,537.13	3,074.26
KPP	000530204	RING, #8	PACKING, STAGE 4	1.00	EA	1,045.61	1,045.61
KPP	000530220	RING	PACKING, 526W01-0, STAGE 5-6	2.00	EA	1,262.08	2,524.16
KPP	000530246	RING, PACKING - 526W01-0, STAGE 7 & 8	RINGS 11 & 12	2.00	EA	1,217.01	2,434.02
KPP	000530261	SPRING, RETAINER ASSY	K-4 TURBINE	14.00	EA	55.51	777.07
KPP	000530287	GASKET	K-4 TURBINE, TRIP THROTTLE VALVE	0.00	EA	123.33	0.00
KPP	000530303	STEM	K-4 TURBINE, TRIP THROTTLE VALVE	0.00	EA	6,780.27	0.00
KPP	000530329	BUSHING	K-4 TURBINE, TRIP THROTTLE VALVE	1.00	EA	1,794.98	1,794.98
KPP	000530345	BUSHING	K-4 TURBINE, TRIP THROTTLE VALVE	1.00	EA	1,794.98	1,794.98
KPP	000530360	SPOOL	K-4 TURBINE, TRIP THROTTLE VALVE	0.00	EA	8,786.59	0.00
KPP	000530386	GASKET	FLEXITALLIC	0.00	EA	16.94	0.00
KPP	000530402	GASKET	8", 600#	0.00	EA	46.22	0.00
KPP	000530428	SOLENOID	3-WAY, EXTRACTION TRIP	3.00	EA	652.85	1,958.55
KPP	000530444	REPAIR KIT, SOLENOID	EXTRACTION TRIP	4.00	EA	254.53	1,018.12

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000530469	P.T. RELAY	K-4 TURBINE, GENERATOR	0.00	EA	949.62	0.00
KPP	000530485	REPAIR KIT, VALVE	DIAPHRAGM 4" (EXTRACTION TRIP)	1.00	EA	239.20	239.20
KPP	000530501	REPAIR KIT, VALVE	DIAPHRAGM 6" (EXTRACTION TRIP)	1.00	EA	256.03	256.03
KPP	000530527	VALVE	3 1/2", A	1.00	EA	1,867.76	1,867.76
KPP	000530543	VALVE	2 1/2", B	0.00	EA	690.42	0.00
KPP	000530568	VALVE	2 1/4", D	0.00	EA	637.24	0.00
KPP	000530584	VALVE, ARGO, STEAM SEAL REGULATOR	DUMP VALVE	1.00	EA	3,176.88	3,176.88
KPP	000530600	VALVE ASSY	K-4 TURBINE	2.00	EA	5,278.34	10,556.68
KPP	000530626	BUSHING-LOWER, AUXILIARY OIL PUMP	PUMP SHAFT	0.00	EA	274.36	0.00
KPP	000530642	BUSHING-UPPER,AUXILIARY OIL PUMP	K-4 TURBINE	0.00	EA	839.90	0.00
KPP	000530667	WASHER	THRUST	0.00	EA	44.94	0.00
KPP	000530683	BONNET	REGULATOR	0.00	EA	909.46	0.00
KPP	000530709	REGULATOR	BONNET BUSHING	1.00	EA	249.00	249.00
KPP	000530725	NUTS, REGULATOR	CHECK	4.00	EA	1.00	4.00
KPP	000530741	PIN, REGULATOR	VALVE PLUG	1.00	EA	1.00	1.00
KPP	000530766	PLUG, REGULATOR	VALVE	2.00	EA	43.01	86.02
KPP	000530782	STEM, REGULATOR	VALVE & TEE HEAD	1.00	EA	81.00	81.00
KPP	000530808	VALVE, REGULATOR	MAIN	2.00	EA	283.92	567.84
KPP	000530824	SPRING	K-4 TURBINE	2.00	EA	44.16	88.32
KPP	000530840	GASLET	K-4 TURBINE	2.00	EA	32.22	64.44
KPP	000530865	GASKET	K-4 TURBINE	2.00	EA	14.34	28.68
KPP	000530881	GASKET	K-4 TURBINE	6.00	EA	32.62	195.72
KPP	000530907	GASKET	K-4 TURBINE	2.00	EA	57.70	115.40
KPP	000530923	BUSHING	K-4 TURBINE	2.00	EA	83.79	167.58
KPP	000530949	COUPLING	K-4 TURBINE	2.00	EA	184.65	369.30
KPP	000530964	SPINDLE	K-4 TURBINE	2.00	EA	616.73	1,233.46
KPP	000530980	LINING	BEARING, COUPLING END	1.00	EA	2,834.21	2,834.21
KPP	000531004	FILTER	8-3/4 X 9-5/8 X 2, DISPOSABLE	100.00	EA	3.75	374.98
KPP	000531020	TUBE	STAINLESS STEEL CONDENSER	0.00	EA	30.76	0.00
KPP	000531046	LINER	BEARING	1.00	EA	825.76	825.76
KPP	000531061	OMEGA ELEMENT	K-4 SERVICE WATER PUMPS	0.00	EA	0.00	0.00
KPP	000531087	SEAL, MECHANICAL ASSY, TYPE1 DOUBLE	FOR K4 INGERSOL SERVICE WATER PUMPS	4.00	EA	440.81	1,763.24
KPP	000531103	JOINT	EXPANSION, 30"	0.00	EA	2,090.07	0.00
KPP	000531129	GASKET	GUIDE CONE TO CASING	6.00	EA	10.80	64.82
KPP	000531145	GASKET	GUIDE CONE TO HOUSING	6.00	EA	10.80	64.82
KPP	000531160	GASKET	END COVER TO HOUSING	0.00	EA	0.00	0.00
KPP	000531186	SEAL	GEAR COUPLING, 2 1/2"	0.00	EA	0.00	0.00
KPP	000531202	GASKET	COVER	0.00	EA	111.97	0.00
KPP	000531228	GASKET	COVER	0.00	EA	111.97	0.00
KPP	000531244	SLEEVE	FW PUMP	1.00	EA	948.48	948.48
KPP	000531269	NUT	LOCK	1.00	EA	3.00	3.00
KPP	000531285	SCREW	SLEEVE BEARING - DEARATOR	0.00	EA	44.00	0.00
KPP	000531301	SPRING	K-4 FEEDWATER SYSTEM DEARATOR	2.00	EA	3.05	6.10
KPP	000531327	GASKET	K-4 FEEDWATER SYSTEM DEARATOR	2.00	EA	13.41	26.82
KPP	000531343	CAP SCREW, LOCKING	FEEDWATER SYSTEM DEARATOR	3.00	EA	3.86	11.58
KPP	000531368	FACING WIRE	FEEDWATER SYSTEM DEARATOR	6.00	EA	0.08	0.48
KPP	000531384	RING BASE	FEEDWATER SYSTEM DEARATOR	1.00	EA	151.63	151.63
KPP	000531400	GAUGE, GLASS	FEEDWATER HEATER	6.00	EA	58.98	353.90
KPP	000531426	GASKET	44 SIZE 40	12.00	EA	3.84	46.02
KPP	000531442	STOCK, SHAFT, 1-7/16" X 12', 316	STAINLESS STEEL	24.00	FT	25.31	607.44
KPP	000531467	STOCK, SHAFT, 1-15/16" X 12', 316	STAINLESS STEEL	26.00	FT	42.81	1,112.98
KPP	000531483	STOCK, SHAFT, 1-5/8" X 12', 316L	STAINLESS STEEL	33.00	FT	38.25	1,262.23
KPP	000531509	IMPELLER, 316 STAINLESS STEEL	MODEL #6360W-2 STAGE	2.00	EA	9,104.63	18,209.25
KPP	000531525	SLEEVE & GEAR	DRIVE & WORM	0.00	EA	0.00	0.00
KPP	000531541	HOUSING CAP	LIMITORQUE VALVE	1.00	EA	19.55	19.55
KPP	000531566	WORM SHAFT	LIMITORQUE VALVE	1.00	EA	133.05	133.05
KPP	000531582	HOUSING	LIMITORQUE	2.00	EA	257.93	515.86
KPP	000531608	RING	PACKING	10.00	EA	8.21	82.10
KPP	000531624	SAFETY VALVE	700#	1.00	EA	859.82	859.82
KPP	000531640	RELIEF VALVE	3/4"	2.00	EA	395.75	791.50
KPP	000531665	SPRAY PLATE	K-4 BURNERS	17.00	EA	130.00	2,210.00
KPP	000531681	PLUG	K-4 BURNERS	0.00	EA	89.53	0.00
KPP	000531707	INTERMEDIATE PLATE	K-4 BURNERS	6.00	EA	193.46	1,160.76
KPP	000531723	NUT	K-4 BURNERS	4.00	EA	88.89	355.56
KPP	000531749	SPRAY PLATE	K-4 BURNERS	8.00	EA	203.13	1,625.04

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000531764	MECHANICAL SEAL	REBUILT, 1 1/4"	0.00	EA	218.97	0.00
KPP	000531780	MECHANICAL SEAL, REBUILT, 1-1/4",	TYPE 9, DWG. CFSP17400,	0.00	EA	158.67	0.00
KPP	000531806	HOSE	BRAIDED	4.00	EA	48.46	193.84
KPP	000531822	COVER	ATOMIZER COUPLING	1.00	EA	49.35	49.35
KPP	000531848	BARREL ASSEMBLY,	BL=5'9-1/2, D=.562", SA192	4.00	EA	1,022.28	4,089.12
KPP	000531863	ROD	REGULATING	1.00	EA	736.69	736.69
KPP	000531889	END CAP	ATOMIZER, 1 31/32 X 1 5/8	0.00	EA	27.71	0.00
KPP	000531905	SCREW	YOKE	5.00	EA	8.37	41.85
KPP	000531921	SPRAYER HEAD	K-4 BURNERS	0.00	EA	143.18	0.00
KPP	000531947	SPRAY PLATE	K-4 BURNERS	0.00	EA	98.69	0.00
KPP	000531962	INTERMEDIATE PLATE	K-4 BURNERS	0.00	EA	79.02	0.00
KPP	000531988	O-RING	1-5/8" X 2" X 3/16"	11.00	EA	2.50	27.50
KPP	000532002	SCREW	YOKE	3.00	EA	75.82	227.46
KPP	000532028	RING	SEAL	20.00	EA	30.80	616.00
KPP	000532044	SPLIT RING	SHELL	20.00	EA	30.80	616.00
KPP	000532069	TUBE	SPLIT RING	20.00	EA	30.80	616.00
KPP	000532085	GASKET	FIN TUBE	5.00	EA	10.00	50.00
KPP	000532101	SIGHTGLASS, .256, TH POLISHED PYREX	GLASS, TEMPERED, SWIPED EDGE, .256	55.00	EA	17.02	936.00
KPP	000532127	GASKET	CASING	7.00	EA	34.92	244.44
KPP	000532143	REPAIR KIT	MAJOR	1.00	EA	8,108.88	8,108.88
KPP	000532168	PROBE, 19"	CATHODE-ANODE "J" BOX	8.00	EA	422.02	3,376.17
KPP	000532184	BEARING, 1-5/8" X 2-1/8" X 6-1/2"	NON-METALLIC	2.00	EA	81.89	163.78
KPP	000532200	BEARING, 2" X 2-3/4" X 3-11/16	DISCHARGE BOWL UPPER	7.00	EA	174.04	1,218.31
KPP	000532226	BEARING, 2" X 2-3/4" X 4-1/8"	LOWER DISCHARGE BOWL	1.00	EA	99.69	99.69
KPP	000532242	BEARING, 2" X 2-3/4" X 5"	SUCTION BOWL	2.00	EA	102.84	205.68
KPP	000532267	BEARING	INTERMEDIATE BOWL	0.00	EA	51.32	0.00
KPP	000532283	BEARING	LINE SHAFT	3.00	EA	84.09	252.27
KPP	000532309	OMEGA ELEMENT	#448 SERVICE WATER PUMPS	1.00	EA	131.68	131.68
KPP	000532325	COUPLING	K-4 CONDENSATE DRIP PUMP	0.00	EA	69.00	0.00
KPP	000532341	SCREW	SOCKET	0.00	EA	4.00	0.00
KPP	000532366	SHIM	BALDOR CONDENSATE DRIP PUMP	1.00	EA	10.00	10.00
KPP	000532382	DRIVE SHAFT	14 1/8"	1.00	EA	258.68	258.68
KPP	000532408	SNAP RING	BALDOR CONDENSATE DRIP PUMP	1.00	EA	1.00	1.00
KPP	000532424	SPRING	WAVE	1.00	EA	3.00	3.00
KPP	000532440	SEAL, PUMP, 1000 VITON. FOR K4 DRIP PUMP		2.00	EA	56.47	112.93
KPP	000532465	PUMP, MULTI-STAGE PUMP ASSEMBLY	MODEL NO. RFA-M-18, CODE HV-21	1.00	EA	2,193.36	2,193.36
KPP	000532481	SEAL	OIL	0.00	EA	20.00	0.00
KPP	000532507	SLEEVE	SEAL REMOVAL	1.00	EA	2.00	2.00
KPP	000532523	SPACER	SEAL	1.00	EA	4.00	4.00
KPP	000532549	LOCK NUT	BEARING	1.00	EA	3.00	3.00
KPP	000532564	LOCK WASHER	K-4 CONDENSATE DRIP PUMP	0.00	EA	1.00	0.00
KPP	000532580	ORING	K-4 CONDENSATE DRIP PUMP	0.00	EA	6.00	0.00
KPP	000532606	CUP	OIL	1.00	EA	43.00	43.00
KPP	000532622	SEAL	OIL	2.00	EA	4.46	8.92
KPP	000532648	STOCK, SHAFT, 1-1/2" X 7-1/2', 316	STAINLESS STEEL.	8.00	FT	49.32	394.54
KPP	000532663	DEMISTER, PER OTTO-YORK, DWG AD-32314-01	23.25" X 8" THICK, 304L SS MESH	1.00	EA	1,081.60	1,081.60
KPP	000532689	RING	RIDER	6.00	EA	61.00	366.00
KPP	000532705	FILTER ELEMENT	WORTHINGTON AIR COMPRESSOR	6.00	EA	134.86	809.16
KPP	000532721	FINGER	WORTHINGTON AIR COMPRESSOR	6.00	EA	99.56	597.36
KPP	000532747	RETAINERS	SPRING	6.00	EA	19.99	119.94
KPP	000532762	SPRING	RETURN	12.00	EA	1.55	18.60
KPP	000532788	RING	PISTON	10.00	EA	32.96	329.60
KPP	000532804	LOCKNUT	WORTHINGTON AIR COMPRESSOR	12.00	EA	25.55	306.60
KPP	000532820	GASKET	HEAD CYLINDER	1.00	EA	6.66	6.66
KPP	000532846	NUB, (LARGE)	41/42 WORTHINGTON AIR COMPRESSOR	16.00	EA	1.39	22.19
KPP	000532861	RING	SET, OIL, WIPER	3.00	EA	31.58	94.74
KPP	000532887	COIL	120VAC	3.00	EA	53.92	161.76
KPP	000532903	DIAPHRAGM	RUBBER	4.00	EA	9.68	38.72
KPP	000532929	RING	PISTON	6.00	EA	35.81	214.86
KPP	000532945	GASKET SETS	WORTHINGTON AIR COMPRESSOR	2.00	EA	4.99	9.99
KPP	000532960	GASKET, VALVE COVER TO CYLINDER. FOR 498	499, 612 & 21 WORTHINGTON AIR COMPRESSOR	8.00	EA	6.24	49.92
KPP	000532986	GASKET, SEAT/GUARD TO CYLINDER. 498, 499	612 & 21 WORTHINGTON AIR COMPRESSORS.	7.00	EA	5.05	35.35

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000533000	LINKAGE	BALL & SOCKET	3.00	EA	234.13	702.39
KPP	000533026	GASKET	HEAD TO CYLINDER	0.00	EA	36.32	0.00
KPP	000533042	RING, RIDER	#614 WORTHINGTON AIR COMPRESSOR	1.00	EA	540.80	540.80
KPP	000533067	THERMOMETER, MAGNETIC LEAF SPRING	SPOT CHECK, 0-270 DEG	0.00	EA	27.04	0.00
KPP	000533083	THERMOMETER	0-250F DEGREE	4.00	EA	47.60	190.41
KPP	000533109	FINGER, VALVE	#614 WORTHINGTON AIR COMPRESSOR	5.00	EA	275.60	1,378.00
KPP	000533125	RING	PISTON GLYDE	7.00	EA	41.60	291.20
KPP	000533141	PISTON	#614 WORTHINGTON AIR COMPRESSOR	3.00	EA	201.78	605.33
KPP	000533166	BUSHING, VALVE BOLT	#614 WORTHINGTON AIR COMPRESSOR	8.00	EA	15.71	125.64
KPP	000533182	SPRING, RETURN	#614 WORTHINGTON AIR COMPRESSOR	2.00	EA	9.36	18.72
KPP	000533208	SPRING, POWER	#614 WORTHINGTON AIR COMPRESSOR	2.00	EA	14.04	28.08
KPP	000533224	GASKET, HEAD TO CYLINDER	#614 WORTHINGTON AIR COMPRESSOR	3.00	EA	11.59	34.77
KPP	000533240	RING, PISTON	#614 WORTHINGTON AIR COMPRESSOR	6.00	EA	92.54	555.23
KPP	000533265	GUARD, VALVE	#614 WORTHINGTON AIR COMPRESSOR	2.00	EA	332.80	665.60
KPP	000533281	SEAT, VALVE	#614 WORTHINGTON AIR COMPRESSOR	2.00	EA	263.49	526.97
KPP	000533307	STRIP, VALVE	#614 WORTHINGTON AIR COMPRESSOR	8.00	ST	12.95	103.57
KPP	000533323	VALVE SET, BOLTS & NUTS	#614 WORTHINGTON AIR COMPRESSOR	12.00	EA	7.34	88.07
KPP	000533349	GASKET, SOLID COPPER	#614 WORTHINGTON AIR COMPRESSOR	9.00	EA	16.85	151.64
KPP	000533364	NUB, (SMALL)	#614 WORTHINGTON AIR COMPRESSOR	133.00	EA	8.52	1,133.01
KPP	000533380	GASKET, SOLID COPPER	#614 WORTHINGTON AIR COMPRESSOR	10.00	EA	9.50	94.95
KPP	000533406	ELEMENT, FILTER	#614 WORTHINGTON AIR COMPRESSOR	1.00	EA	159.81	159.81
KPP	000533422	GASKET, VALVE SCREW CAP	#614 WORTHINGTON AIR COMPRESSOR	6.00	EA	2.99	17.94
KPP	000533448	ROD, PACKING	#614 WORTHINGTON AIR COMPRESSOR	7.00	EA	69.62	487.34
KPP	000533463	FILTER,OIL	#614 WORTHINGTON AIR COMPRESSOR	1.00	EA	8.40	8.40
KPP	000533489	JOINT, EXPANSION, 8X12 FF STYLE SS-1	UNAFLEX	1.00	EA	338.98	338.98
KPP	000533505	ELEMENT	FILTER, AIR INTAKE	3.00	EA	14.06	42.18
KPP	000533521	ELEMENT	FILTER	2.00	EA	36.13	72.26
KPP	000533547	ELEMENT	FILTER, OIL SEPARATOR	0.00	EA	366.74	0.00
KPP	000533562	FILTER	IN-LINE	2.00	EA	24.31	48.62
KPP	000533588	BEARING	#611 JOY AIR COMPRESSOR	1.00	EA	67.50	67.50
KPP	000533604	BEARING	#611 JOY AIR COMPRESSOR	1.00	EA	95.95	95.95
KPP	000533620	BEARING	#611 JOY AIR COMPRESSOR	1.00	EA	230.69	230.69
KPP	000533646	GASKET	GEAR PUMP	3.00	EA	4.59	13.77
KPP	000533661	GASKET	STATOR	3.00	EA	15.69	47.07
KPP	000533687	GASKET	GEAR CASE COVER	3.00	EA	11.38	34.14
KPP	000533703	GASKET	OIL GALLERY COVER	3.00	EA	2.22	6.66
KPP	000533729	THERMOMETER	0-250F, 5" FACE, 2 1/2" STEM NON-SWIVEL	3.00	EA	76.66	229.98
KPP	000533745	WELL, BRASS, 3/4" CONNECTION	2-1/2" WELLS TYPE 2	4.00	EA	9.48	37.91
KPP	000533760	THERMOMETER, BI-METAL, 5", 0/250 DEG F	KAHULUI UNITS 1 TO 4, BOILER	2.00	EA	115.62	231.24
KPP	000533786	WELL, BRASS, 3/4" CONNECTION	4" WELLS TYPE 2	4.00	EA	14.06	56.25
KPP	000533802	REPAIR KIT	SOLENOID	2.00	EA	130.31	260.61
KPP	000533828	SOLENOID	ELECT MAINTENANCE	1.00	EA	122.14	122.14
KPP	000533844	REPAIR KIT	SOLENOID	2.00	EA	38.02	76.04
KPP	000533869	REGULATOR ASSY	K1-4 - BLR	0.00	EA	0.00	0.00
KPP	000533885	REPAIR KIT	REGULATOR	8.00	EA	115.57	924.56
KPP	000533901	WINDOW, QUARTZ	FLAME DETECTOR	3.00	EA	8.95	26.85
KPP	000533927	GASKET, FLAME DETECTOR	BAILEY CONTROLS	6.00	EA	4.21	25.26
KPP	000533943	BOARD ASSY - FLICKER	FLAME DETECTOR	1.00	EA	728.00	728.00
KPP	000533968	LAMP, INCANDESCENT 18V	FLAME DETECTOR	2.00	EA	8.06	16.12
KPP	000533984	COIL, SKINNER	O2 TRIM	2.00	EA	83.32	166.64
KPP	000534008	REPAIR KIT	SOLENOID	2.00	EA	47.12	94.24
KPP	000534024	RING	MALE DIST	2.00	EA	0.00	0.00
KPP	000534040	SWITCH	HEATER/THERMAL KIT	1.00	EA	206.28	206.28
KPP	000534065	SENSOR KIT, OXYGEN	K1-4	0.00	EA	887.68	0.00
KPP	000534081	GASKET,SEAL KIT	02 TRIM	0.00	EA	95.47	0.00
KPP	000534107	THERMOCOUPLE KIT	02 TRIM	1.00	EA	390.08	390.08
KPP	000534123	GAS SENSOR KIT	COMBUSTIBLE	0.00	EA	341.93	0.00
KPP	000534149	FILTER ASSY	BOILER	1.00	EA	344.17	344.17
KPP	000534164	COMBINATION BLOCK KIT	HEATER	0.00	EA	288.08	0.00
KPP	000534180	FURNACE ASSY	K1-4	2.00	EA	602.39	1,204.78
KPP	000534206	GASKET	SWITCH	2.00	EA	27.00	54.00
KPP	000534222	GASKET, SWITCH 02	02 TRIM	2.00	EA	0.50	1.00
KPP	000534248	FILTER KIT	02 TRIM	1.00	EA	17.00	17.00
KPP	000534263	BOOSTER KIT	POSITIONER	4.00	EA	163.13	652.52
KPP	000534289	ORING KIT	POSITIONER	1.00	EA	6.00	6.00
KPP	000534305	BELLOWS, A-B	POSITIONER	1.00	EA	54.00	54.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000534321	BELLOWS, C-D	POSITIONER	1.00	EA	54.00	54.00
KPP	000534347	CORE	VALVE	1.00	EA	2.75	2.75
KPP	000534362	ORING	O2 TRIM	2.00	EA	1.10	2.20
KPP	000534388	TRANSFER KIT	VALVE - POSITIONER	5.00	EA	110.11	550.55
KPP	000534404	FILTER	SPARES - POSITIONER	0.00	EA	19.80	0.00
KPP	000534420	SEAL	CUP	1.00	EA	0.60	0.60
KPP	000534446	SWITCH VALVE "U"	4-WAY	1.00	EA	37.00	37.00
KPP	000534461	VALVE "V"	O2 TRIM	1.00	EA	46.00	46.00
KPP	000534487	WINDOW, SCALE "Y"	O2 TRIM	4.00	EA	4.25	17.00
KPP	000534503	SCALE COVER "X"	O2 TRIM	2.00	EA	6.33	12.66
KPP	000534529	SERVO	AMPLIFIER ASSY	0.00	EA	490.68	0.00
KPP	000534545	BOARD, RECEIVER	O2 TRIM	1.00	EA	278.55	278.55
KPP	000534560	BOARD	ALARM	1.00	EA	250.55	250.55
KPP	000534586	LAMP	F4T5,COOL WHITE,FLUORESCENT	12.00	EA	4.46	53.50
KPP	000534602	LAMP, F40/CW, , FLUORESCENT	(30 LAMPS PER CASE)	3.00	CS	41.35	124.05
KPP	000534628	LAMP	100A/99, EXTENDED SERVICE	50.00	EA	2.70	134.89
KPP	000534644	LAMP	150A/99, EXTENDED SERVICE	1.00	CS	123.26	123.26
KPP	000534669	LAMP	200/99IF-130V	0.00	CS	329.35	0.00
KPP	000534685	LAMP	40T10, TUBULAR	49.00	EA	3.55	174.08
KPP	000534701	LAMP	3S6, MOTOR INDICATING	24.00	EA	1.99	47.84
KPP	000534727	LAMP	55C1, MINI	20.00	EA	1.99	39.79
KPP	000534743	LAMP, 100W/12V		18.00	EA	8.01	144.18
KPP	000534768	LAMP, MINI	50W; SIZE: 12V	2.00	CS	308.76	617.52
KPP	000534784	BALLAST	ADVANCE	1.00	EA	123.98	123.98
KPP	000534800	LAMP	24E, MINI, CONTROL ROOM	10.00	EA	1.42	14.17
KPP	000534826	HEATER	O2 ANALYZER	1.00	EA	566.50	566.50
KPP	000534842	LAMP	INCANDESCENT	0.00	CS	368.13	0.00
KPP	000534867	LAMP	WATER COLUMN, INCANDESCENT REFLECTOR	36.00	EA	3.05	109.97
KPP	000534883	LAMP	300/99IF-130V IF MOG EXTSVC	2.00	CS	193.27	386.54
KPP	000534909	LAMP	450W, SELF-BALLASTED	0.00	EA	60.65	0.00
KPP	000534925	LAMP	150W, HI-PRESSURE SODIUM, MOGULE BASE,	10.00	EA	11.10	111.03
KPP	000534941	LAMP	90PAR/SP, 90W SPOTLIGHT	1.00	CS	82.96	82.96
KPP	000534966	LAMP, FLOODLIGHT, 90PAR38/CAP/FL 120V	(15 LAMPS PER CASE)	25.00	EA	5.53	138.27
KPP	000534982	LIGHT, PILOT, RESISTOR TYPE, 120V		0.00	EA	39.06	0.00
KPP	000535005	LAMP	SMOKE STACK	15.00	EA	12.19	182.85
KPP	000535021	LAMP	#85, MINI	10.00	EA	0.76	7.60
KPP	000535047	LAMP	6V, AC/DC	6.00	EA	6.61	39.66
KPP	000535062	LAMP	QUARTZ, 500W, INCANDESCENT, CLEAR	10.00	EA	2.44	24.37
KPP	000535088	LAMP, INDICATING	COLOR: RED	4.00	EA	60.71	242.86
KPP	000535104	LAMP, INDICATING	COLOR: GREEN	2.00	EA	61.91	123.83
KPP	000535120	LAMP	HIGH PRESSURE SODIUM, 400W LU	20.00	EA	19.11	382.27
KPP	000535146	LAMP, 400W MERCURY	ELECTRICAL MAINTENANCE	6.00	EA	31.25	187.49
KPP	000535161	LAMP	FLORESCENT	7.00	EA	6.11	42.77
KPP	000557744	MOTOR	BALDOR 1/2HP,1140RPM,115/208-230,FR56/H	1.00	EA	303.11	303.11
KPP	000597484	FILTER	AIR	24.00	EA	0.00	0.00
KPP	000597567	WASHER, NEOPRENE, 2-3/16 X 1-1/2 X 1/16		49.00	EA	1.30	63.74
KPP	000598219	RELAY BASE GASKET 150 DEG.	FOR ALL UNITS, K1 THRU K4, LEVEL CONTROL	4.00	EA	9.53	38.12
KPP	000598227	RELAY BASE	FOR ALL UNITS, K1 THRU K4, LEVEL CONTROL	3.00	EA	20.88	62.65
KPP	000598235	LOVEJOY SPIDER COUPLING	K1 SALT WATER PUMP	2.00	EA	0.00	0.00
KPP	000598243	WASHER, FLAT, F/W 3/8 310	FOR K1 & K2 DAMPERS & EXPLOSION DOORS.	21.00	EA	0.10	2.19
KPP	000598250	NUT, SIZE: 3/8-16 310	FOR K1 & K2 DAMPERS & EXPLOSION DOORS.	42.00	EA	1.87	78.74
KPP	000598268	THREADED ROD 3/8"-16/SS	STAINLESS STEEL	4.00	EA	37.04	148.17
KPP	000598276	CAM HUB	FOR BAILEY POSITIONER PT#5311450.	2.00	EA	0.00	0.00
KPP	000598284	CLOCKWISE SWIRLER; CW SWIRLER	FOR KAHULUI 2 BURNER.	1.00	EA	1,550.94	1,550.94
KPP	000598292	PIN	CAM ROLLER	2.00	EA	0.00	0.00
KPP	000598300	CAM ROLLER ASSY	FOR BAILEY POSITIONER PT#5311450	2.00	EA	0.00	0.00
KPP	000598318	DRIVE ARM	FOR BAILEY POSITIONER PT#5311450.	2.00	EA	0.00	0.00
KPP	000598326	DIAPHRAGM ASSEMBLY	BAILEY POSITIONER PT#5311450.	2.00	EA	0.00	0.00
KPP	000598334	RETAINING RING	FOR BAILEY POSITIONER PT#5311450	2.00	EA	0.00	0.00
KPP	000599183	P Indicator, 500 ml/btl		1.00	BT	16.12	16.12

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000599191	Potassium Chromate, 500 ml/btl		1.00	BT	18.75	18.75
KPP	000599209	SULFURIC ACID,N/50 H2So4 TIT,500ml/BTL		0.00	BT	13.10	0.00
KPP	000599210	SULFURIC ACID, N/50 H2SO4 TIT, 4 LTR/BTL		1.00	BT	29.12	29.12
KPP	000599217	REAGENT, 0.0172N AgNO3, 1 LITER/BOTTLE		1.00	BT	22.92	22.92
KPP	000599225	10% Barium Chloride, 1 liter/btl		3.00	BT	20.83	62.50
KPP	000599233	TDS-1, 1 LITER/BTL		0.00	BT	45.31	0.00
KPP	000599241	N/1 H2So4, 1 liter/btl		0.00	BT	15.62	0.00
KPP	000599258	SI-4, 500 ml/btl		0.00	BT	20.83	0.00
KPP	000599266	39-1, 250 ML/BOTTLE, CS-1		0.00	BT	16.67	0.00
KPP	000599274	CS-2, 500 ML/BTL, 39-P-2		0.00	BT	26.77	0.00
KPP	000599282	3000 MMHO S, 1 liter/btl		0.00	BT	20.78	0.00
KPP	000599290	600 MMHO S, 1 liter/btl		0.00	BT	20.78	0.00
KPP	000599308	40 MMHO S, 1 liter/btl	Nalco, One Nalco Center	0.00	BT	20.75	0.00
KPP	000599316	ST-1, 250 GRAM PER BOTTLE, NALCO, ONE	NALCO CENTER	0.00	BT	52.08	0.00
KPP	000599324	ST-2, 500 ml/btl		1.00	BT	25.00	25.00
KPP	000599332	PA-1, 1 liter/btl		0.00	BT	31.25	0.00
KPP	000599340	PA-2, 1 liter/btl		1.00	BT	24.48	24.48
KPP	000599357	Hydrochloric Acid, 1 liter/btl		0.00	BT	26.04	0.00
KPP	000599365	SOLUTION, NITRITE TEST, 2 OZ LIQUID,		0.00	BT	17.86	0.00
KPP	000599373	N-2 Titrant, 500 ml/btl		0.00	BT	39.58	0.00
KPP	000599381	Oxygen Scavenger, 100 lb/can	Boiler Tratement, Service Water, W.W.	0.00	CN	146.43	0.00
KPP	000599399	Corrosion Inhibitor, 55 gal/drum	Boiler Treatment, Service Water, W.W.	0.00	DR	1,552.57	0.00
KPP	000599407	Corrosion Inhibitor, 55 gal/drum	Boiler Treatment, Service Water, W.W.	0.00	DR	2,090.15	0.00
KPP	000599415	Pulv, 100 lb/can	Boiler Treatment, Service Water, W.W.	0.00	CN	597.06	0.00
KPP	000599423	Flocculant, 55 gal/drum	Boiler Treatment, Service Water, W.W.	0.00	DR	1,272.63	0.00
KPP	000599431	Feedwater Treatment, 55 gl/drum	Boiler Treatment, Service Water, W.E.	0.00	DR	1,352.77	0.00
KPP	000599449	MOLYBDATE, REAGENT, 1000 ML		1.00	BT	20.28	20.28
KPP	000599456	Amino Acid Reagent, 500ml/btl	Hach, P.O. Box 907	1.00	BT	19.55	19.55
KPP	000599464	Acid Reagent Powder Pillows, 100/pk	Hach, P.O. Box 907	13.00	PK	30.81	400.50
KPP	000599472	Molybdate Reagent Powder Pillows, 100/pk	Hach, P.O. Box 907	9.00	PK	25.29	227.58
KPP	000599480	Citric Acid Reagent Powder Pillows	100/pk	11.00	PK	21.01	231.08
KPP	000599498	MAT, ABSORBENT, OIL ONLY	15" X 19" OR 20", 200 PER BALE	27.00	BL	60.40	1,630.72
KPP	000599506	Quick Sorb, 50 lb/bag	A&M Products, P.O. Box 1903,	25.00	BG	9.39	234.78
KPP	000599514	Solar Salt, 40 lb/bag	Cargill, International	126.00	BG	8.80	1,109.35
KPP	000599522	Calcium Nitrate Hydrated	Hummel Croton Inc., 10 Harmich Rd	0.00	GL	0.00	0.00
KPP	000599530	Sodium Hydroxide, Na Oh Aquaseous	Pioneer Chlor Alkali Co., Inc.	0.00	NT	0.00	0.00
KPP	000599548	FASTKAST-50	INSULATION COMPOUND	0.00	EA	0.00	0.00
KPP	000599555	Nut, 1/4"-20 Gr 8		0.00	EA	0.06	0.00
KPP	000599571	Nut, 5/8"-11 Gr8		0.00	EA	0.36	0.00
KPP	000599589	Washer, flat, 5/16" Gr8		0.00	EA	0.00	0.00
KPP	000599597	Washer, flat, 5/8" Gr8		0.00	EA	0.28	0.00
KPP	000599605	Washer, lock, 1/4" Gr8		0.00	EA	0.00	0.00
KPP	000599613	Cap Screw, hex head, 1/4" x 1/2", Gr8		0.00	EA	0.00	0.00
KPP	000599621	Cap Screw, hex head, 1/4" x 3/4" Gr8		0.00	EA	0.00	0.00
KPP	000599639	Cap Screw, hex head, 5/16" x 3/4" Gr8		0.00	EA	0.00	0.00
KPP	000599654	Cap Screw, hex head, 7/16" x 1-1/4" Gr8		0.00	EA	0.00	0.00
KPP	000599662	Cap Screw, hex head 1/2" x 1-1/4" Gr8		0.00	EA	0.00	0.00
KPP	000599670	Nut, hex, 7/16"-14, Gr8, USS, Coarse		0.00	EA	0.17	0.00
KPP	000599688	Cap Screw, 1/4"-20 x 1" Gr8, hex head,	USS	0.00	EA	0.00	0.00
KPP	000599696	NUT, HEX, STAINLESS STEEL, 1/4"-20		0.00	EA	0.00	0.00
KPP	000599704	Cap Screw, 3/8"-16 x 2-3/4", Gr8, USS		0.00	EA	0.00	0.00
KPP	000599712	Cap Screw, 7/16"-14 x 3", Gr8, USS		0.00	EA	0.00	0.00
KPP	000599720	Cap Screw, 1/2"-13 x 3/4" Gr8, USS		0.00	EA	0.00	0.00
KPP	000599738	Cap Screw, hex head, 1/2"-13 x 2-1/2"	Gr8, USS	0.00	EA	0.00	0.00
KPP	000599746	Cap Screw, 9/16"-12 x 1-1/4", hex head,	Gr8, USS	0.00	EA	0.00	0.00
KPP	000599753	Cap Screw, 9/16"-12 x 2-1/2", hex head	Gr8, USS	0.00	EA	0.00	0.00
KPP	000599761	Cap Screw, 9/16"-12 x 3", hex head	Gr8, USS	0.00	EA	0.00	0.00
KPP	000599779	Cap Screw, 5/8"-11 x 1", hex head	Gr8, USS	0.00	EA	0.00	0.00
KPP	000599787	Cap Screw, 5/8"-11 x 1-1/2", hex head,	Gr8, USS	0.00	EA	0.00	0.00
KPP	000599795	Cap Screw, 5/8"-11 x 2-1/4", hex head	Gr8, USS	0.00	EA	0.00	0.00
KPP	000599803	Nut, Hex, 5/16"-24, SAE		0.00	EA	0.00	0.00
KPP	000599811	Cap Screw, 3/8"-24 x 1-1/2" SAE		0.00	EA	0.00	0.00
KPP	000599829	Nut, hex, 3/8"-16, USS		0.00	EA	0.00	0.00
KPP	000599845	Nut, Hex, 3/4"-10, USS		0.00	EA	0.00	0.00
KPP	000599852	Washer, Lock, 3/8"		0.00	EA	0.00	0.00
KPP	000599860	Cap Screw, hex head, 7/16" x 1", USS		0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000599878	Cap screw, hex head, 3/8" x 3/4", USS		0.00	EA	0.00	0.00
KPP	000599886	Cap screw, hex head, 3/8" x 1" USS		0.00	EA	0.00	0.00
KPP	000599902	Cap Screw, hex head, 7/8"-9 x 2" USS		0.00	EA	0.00	0.00
KPP	000599910	Cap Screw, hex head, 3/4"-10 x 4" USS		0.00	EA	0.00	0.00
KPP	000599944	Cap Screw, hex head, 5/8"-11 x 1-1/4"	USS	0.00	EA	0.00	0.00
KPP	000599977	Cap Screw, hex head, 5/16"-18 x 1"	USS	0.00	EA	0.00	0.00
KPP	000599993	Cap screw, hex head, 5/8"-11 x 3"		0.00	EA	0.00	0.00
KPP	000600007	Cap screw, hex head, 1/2"-13 x 1"		0.00	EA	0.00	0.00
KPP	000600015	Nipple, Galv., 1/2" x 3"		0.00	EA	0.00	0.00
KPP	000600023	Coupling, pipe, 3/4" hd		0.00	EA	0.00	0.00
KPP	000600247	POUCH, PH BUFFER, PH 7.00	(20 POUCHES PER PKG)	1.00	PK	23.87	23.87
KPP	000600254	POUCH, PH BUFFER, PH 10.00	(20 POUCHES PER PKG)	1.00	PK	23.87	23.87
KPP	000600262	POUCH, PH BUFFER, PH 4.01	(20 POUCHES PER PKG)	0.00	PK	22.83	0.00
KPP	000600270	RINSE SOLUTION 20/PK	Cole-PaRmer Instrument Co	1.00	PK	22.83	22.83
KPP	000600288	Screw, Machine, RD HD, 10-24x1		0.00	EA	0.00	0.00
KPP	000600296	Bushing, 1" x 3/4" blk,hx, malbl	pipe fillting	0.00	EA	0.00	0.00
KPP	000600312	Bushing,1-1/4" x 1" blk, HX, Malbl	pipe fitting	0.00	EA	0.00	0.00
KPP	000600320	Washer, Flat, 1/2", BOW, SAE		0.00	EA	0.00	0.00
KPP	000600338	Washer, Flat, 1/4", BOW, SAE		0.00	EA	0.00	0.00
KPP	000600346	Washer, Flat, 3/4", BOW, SAE		0.00	EA	0.00	0.00
KPP	000600353	Washer, Lock, 5/16", BOW-T PL		0.00	EA	0.00	0.00
KPP	000600361	Washer, Lock, 1/2", BOW-T PL		0.00	EA	0.00	0.00
KPP	000600379	Washer, Lock, 3/4", BOW-T PL		0.00	EA	0.36	0.00
KPP	000600387	NUT, FIN HEX, 3/8"-16 USS	316 HEX NUT	0.00	EA	0.00	0.00
KPP	000600395	Washer, Flat, 3/8"	316 flat washer	0.00	EA	0.15	0.00
KPP	000600403	Cap Screw, Hex head, 1/2"-13 x 4"	BOW-T PL	0.00	EA	0.00	0.00
KPP	000600411	Pin, Cotter, 1/8" x 1-1/2" , SS	Stainless Steel	0.00	EA	0.00	0.00
KPP	000600429	Screw, Machine, 10-32x1/2"	UNF SS RHMS Machine Screw	0.00	EA	0.00	0.00
KPP	000600437	Washer, Flat	10 SS Flat Washer	0.00	EA	0.00	0.00
KPP	000600445	Nut, Hex, 10-24	10-24 SS Hex Nut	0.00	EA	0.00	0.00
KPP	000600452	Washer, Flat, 10, Machine	10 Brass Flat Washer	0.00	EA	0.00	0.00
KPP	000600460	Washer, Flat, 1/4" Brass		0.00	EA	0.00	0.00
KPP	000600494	Coupling, 1/2", Galv Merch		0.00	EA	0.00	0.00
KPP	000600502	Bushing, Galv, 1-1/2" x 1", HX		0.00	EA	0.00	0.00
KPP	000600510	Bushing, Galv, 1-1/2" x 1-1/4" HX		0.00	EA	0.00	0.00
KPP	000600528	Nipple, 1/2" x Close, Galv		0.00	EA	0.00	0.00
KPP	000600536	Nipple, 1/2" x 1-1/2", Galv		0.00	EA	0.00	0.00
KPP	000600544	Nipple, 1/2" x 2" Galv		0.00	EA	0.00	0.00
KPP	000600551	Nipple, 1/2" x 3-1/2", Galv		0.00	EA	0.00	0.00
KPP	000600569	Nipple, 3/4" x Close, Galv		0.00	EA	0.00	0.00
KPP	000600577	Nipple, 1" x 2", Galv		0.00	EA	0.00	0.00
KPP	000600585	Nipple, 1-1/2" x 2-1/2", Galv		0.00	EA	0.00	0.00
KPP	000600593	Nipple, 1/4" x 1-1/2", Malbl HD		0.00	EA	0.00	0.00
KPP	000600601	Nipple, 3/8" x 1-1/2" Malbl		0.00	EA	0.00	0.00
KPP	000600619	Nipple, 1/4" x 3" Malbl		0.00	EA	0.00	0.00
KPP	000600627	Nipple, 1/4" x 4" Malbl HD		0.00	EA	0.00	0.00
KPP	000600635	Nipple, 3/4" x 2-1/2" Malbl HD		0.00	EA	0.00	0.00
KPP	000600643	Nipple, 1-1/2" x 2-1/2" Malbl		0.00	EA	0.00	0.00
KPP	000600650	Nipple, 1-1/2" x 3-1/2" Malbl HD		0.00	EA	0.00	0.00
KPP	000600668	Bushing, 1/2" x 3/8" 3000#, Hex	threaded	0.00	EA	0.00	0.00
KPP	000600676	Plug, Square Head, 3/4", Threaded Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000600684	Coupling, 1", Socket Weld, 3000#		0.00	EA	2.10	0.00
KPP	000600692	Union, 1-1/2", Socket Weld, 3000#		0.00	EA	0.00	0.00
KPP	000600700	Reducer, Coupling, 1-1/2" x 1-1/4"	Socket Weld, 3000#	0.00	EA	11.19	0.00
KPP	000600718	Washer, Flat, 1/4", 316		0.00	EA	0.05	0.00
KPP	000600726	NUT, 5/16"-18, 316		0.00	EA	0.00	0.00
KPP	000600734	Cap Screw, 5/8"-11 x 3", Hex head	BOW-T PL	0.00	EA	0.00	0.00
KPP	000600742	Nipple, 1" x 2-1/2", Galv		0.00	EA	0.00	0.00
KPP	000600759	Nipple, 1-1/2" x 3", Galv		0.00	EA	0.00	0.00
KPP	000600767	Nipple, 1-1/2" x 2" Galv		0.00	EA	0.00	0.00
KPP	000600775	Nipple, 2" x 2-1/2", Galv		0.00	EA	0.00	0.00
KPP	000600783	Nipple, 2" x 4", Galv		0.00	EA	0.00	0.00
KPP	000600791	Nipple, 1/2" x 2-1/2" Malbl HD		0.00	EA	0.00	0.00
KPP	000600817	Nipple, 1/2" x 2", Malbl HD		0.00	EA	0.00	0.00
KPP	000600825	Nipple, 1/2" x 4", Malbl HD		0.00	EA	0.00	0.00
KPP	000600833	Nipple, 1" x 3", Malbl HD		0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000600841	Nipple, 1-1/2" x 4" Malbl HD		0.00	EA	0.00	0.00
KPP	000600858	Union, 1/2" Malbl HD		0.00	EA	0.00	0.00
KPP	000600866	Coupling, 1/2" Malbl HD		0.00	EA	0.00	0.00
KPP	000600874	Reducer, Coupling, 1" x 1/2" Malbl HD		0.00	EA	0.00	0.00
KPP	000600882	Cross, 1", Threaded, Black Iron, Sch 80	Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000600890	Bushing, 1-1/4" x 1", Threaded,	3000#, Hex	0.00	EA	0.00	0.00
KPP	000600908	Coupling, 1/2", Socket Weld, 3000#		0.00	EA	0.00	0.00
KPP	000600916	Washer, Flat, 1", Hardened, SAE		0.00	EA	0.00	0.00
KPP	000600924	Cap Screw, 5/16" x 2-1/2", Hex head USS		0.00	EA	0.00	0.00
KPP	000600932	Cap Screw, 3/8" x 3", Hex Head		0.00	EA	0.00	0.00
KPP	000600940	Cap Screw, 5/8"-11 x 2-3/4" Hex Head,	UNC	0.00	EA	0.00	0.00
KPP	000600957	Screw, 10-24x3/4" S/S Round Head Machine	UNC	0.00	EA	0.00	0.00
KPP	000600965	Washer, Flat, 7/16", Hardened SAE		0.00	EA	0.00	0.00
KPP	000600973	Cap Screw, 5/8"-11 x 3-1/2" Hex head	USS	0.00	EA	0.00	0.00
KPP	000600981	Anchor Shackles, 5/16", Galv		0.00	EA	0.00	0.00
KPP	000601195	Bushing, Aluminum	K-2 Fuel Oil burner, #253/254 Primary	4.00	EA	127.28	509.13
KPP	000601211	Tube Tester Seal Plug-Tube 5/8" O.D.	16-18 Gage; Tube 3/4" O.D. 11-12 Gage	0.00	EA	0.00	0.00
KPP	000601229	PLUG, EXPANSION, 2-1/16", STEEL		0.00	EA	0.00	0.00
KPP	000601237	Holder, Flat Soapstone		0.00	EA	0.00	0.00
KPP	000601245	Holder, Tweco, 300 AMP		0.00	EA	0.00	0.00
KPP	000601252	Holder, Tweco, 200 AMP		0.00	EA	0.00	0.00
KPP	000601260	CONNECTOR, CABLE, FEMALE, 2 EA/BOX		0.00	BX	0.00	0.00
KPP	000601278	CONNECTOR, CABLE, MALE, 2 EA/BOX		0.00	BX	0.00	0.00
KPP	000601286	Insulation, Tip w/ screw	For 300 AMP Tweco Holder	0.00	PG	0.00	0.00
KPP	000601294	Insulation, Tip w/ screw	For 200 AMP Tweco Holder	0.00	PG	0.00	0.00
KPP	000601302	Grease, Gear Coupling	Falk LTG Grease	0.00	EA	0.00	0.00
KPP	000601310	Remover, Chisel Gasket	Loctite Chisel	0.00	EA	0.00	0.00
KPP	000601328	Rod, Welding, 3/16 6011		0.00	LB	1.56	0.00
KPP	000601336	Disc, Scotch-Brite Roloc Surface	Conditioning Disc	0.00	EA	0.00	0.00
KPP	000601344	Battery, "D"		0.00	PK	0.00	0.00
KPP	000601351	Battery, "C"		0.00	PK	0.00	0.00
KPP	000601369	Battery, "AA"		0.00	PK	0.00	0.00
KPP	000601377	Battery, "AAA"		0.00	PK	0.00	0.00
KPP	000601385	Battery, "9V"		0.00	PK	0.00	0.00
KPP	000601393	TAPE, TEFLON, 1/2" X 520'		0.00	RL	0.00	0.00
KPP	000601401	TAPE, TEFLON, 3/4" X 520"		0.00	RL	0.00	0.00
KPP	000601419	Mirror, Telescoping, Rectangle		0.00	EA	0.00	0.00
KPP	000601427	Mirror, Telescoping, Circle		0.00	EA	0.00	0.00
KPP	000601435	Oxygen		0.00	CY	0.00	0.00
KPP	000601443	Acetylene		0.00	CY	0.00	0.00
KPP	000601450	Argon		0.00	CY	0.00	0.00
KPP	000601468	Tape, Masking, 2"		0.00	RL	0.00	0.00
KPP	000601476	Tape, Masking, 1"		0.00	RL	0.00	0.00
KPP	000601484	Tape, Masking, 3/4"		0.00	RL	0.00	0.00
KPP	000601492	WIPES, TERI		0.00	CS	0.00	0.00
KPP	000601500	Towel, Hand, Roll		0.00	CS	46.15	0.00
KPP	000601518	Bag, Trash, Extra Heavy Duty		0.00	CS	0.00	0.00
KPP	000601526	Bag, Trash, Janitorial	size: 33 gallon	0.00	CS	0.00	0.00
KPP	000601534	Cleanser, Ajax		0.00	EA	0.00	0.00
KPP	000601542	Cleanser, Comet		0.00	EA	0.00	0.00
KPP	000601559	DISINFECTANT, PINE		0.00	CS	0.00	0.00
KPP	000601567	TISSUE, BATH, 2 PLY		0.00	CS	45.52	0.00
KPP	000601575	Broom, Medium Size		0.00	EA	0.00	0.00
KPP	000601583	CLEANER, HAND, ORIGINAL ORANGE		0.00	PK	0.00	0.00
KPP	000601591	Napkin, Prefolded, 8" x 14", Dispenser		0.00	CS	0.00	0.00
KPP	000601609	Cleaner, Floor, Orange All, Concentrated		0.00	GL	0.00	0.00
KPP	000601617	Soap, Hand, Lava		0.00	CS	0.00	0.00
KPP	000601625	Pad, Scouring, green, 96-3		0.00	BX	0.00	0.00
KPP	000601633	Soap, Dial, bar		0.00	PK	0.00	0.00
KPP	000601641	Spray, Lysol, Disinfectant		0.00	EA	0.00	0.00
KPP	000601658	Lamp, Indicator, 60W, 130V	(48 per case)	1.00	CS	23.00	23.00
KPP	000601666	Sleeve, Shaft		2.00	EA	0.00	0.00
KPP	000601674	PACKING, GARLOCK, 1/4"		0.00	EA	0.00	0.00
KPP	000601690	Connector, Hose	For Oxygen & Acetylene	0.00	PR	0.00	0.00
KPP	000601708	Chart, Bailey		9.00	BX	18.75	168.75
KPP	000601716	Chart, Bailey		3.00	BX	19.67	59.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000601724	Chart, Bailey		9.00	BX	19.72	177.46
KPP	000601732	Chart, Bailey		9.00	BX	19.72	177.46
KPP	000601740	Chart, Bailey		0.00	BX	0.00	0.00
KPP	000601757	Chart, Bailey		6.00	BX	17.08	102.50
KPP	000601765	Chart, Bailey		4.00	BX	18.76	75.04
KPP	000601773	Chart, Bailey		10.00	BX	17.16	171.63
KPP	000601781	Chart, Bailey		12.00	BX	19.26	231.06
KPP	000601799	Chart, Bailey		12.00	BX	19.19	230.24
KPP	000601807	Chart, Recorder, Esterline Angus		42.00	EA	13.24	556.26
KPP	000601815	Chart, Recorder, Esterline Angus		42.00	EA	12.37	519.53
KPP	000601823	CHART, RECORDER	(5 ROLLS PER BOX)	25.00	EA	5.82	145.60
KPP	000601831	Chart, Recorder, Esterline Angus		12.00	EA	19.10	229.22
KPP	000601849	Nut, Hex, 5/16"-18, Gr8, UNC, USS		0.00	EA	0.00	0.00
KPP	000601856	Nut, Hex, 9/16"-12, Gr8, UNC, USS		0.00	EA	0.00	0.00
KPP	000601864	Nut, Hex, 7/8"-9, Gr8, UNC, USS		0.00	EA	0.00	0.00
KPP	000601872	Nut, Hex 1"-8, Gr8, UNC, USS		0.00	EA	0.00	0.00
KPP	000601898	Washer, Flat, 3/8", SAE, Gr8		0.00	EA	0.00	0.00
KPP	000601906	Washer, Flat, 9/16", SAE, Gr8		0.00	EA	0.00	0.00
KPP	000601914	Washer, Flat, 7/8", SAE, Gr8		0.00	EA	0.00	0.00
KPP	000601922	Washer, Lock, 7/16", Gr8		0.00	EA	0.00	0.00
KPP	000601930	Washer, Lock, 9/16", Gr8		0.00	EA	0.00	0.00
KPP	000601948	Washer, Lock, 5/8", Gr8		0.00	EA	0.20	0.00
KPP	000601955	Washer, Lock, 7/8", Gr8		0.00	EA	0.00	0.00
KPP	000601963	Washer, Lock, 1", Gr8		0.00	EA	0.00	0.00
KPP	000601971	Screw, Cap, 1/4"-20 x 1-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000601989	Screw, Cap, 1/4"-20 x 1-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000601997	Screw, Cap, 1/4"-20 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602003	Screw, Cap, 1/4"-20 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602011	Screw, Cap, 1/4"-20 x 2-1/4", USS, UNC		0.00	EA	0.00	0.00
KPP	000602029	Screw, Cap, 1/4"-20 x 2-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602037	Screw, Cap, 1/4"-20 x 2-3/4" UNC, USS		0.00	EA	0.00	0.00
KPP	000602045	Screw, Cap, 1/4"-20 x 3", UNC, USS		0.00	EA	0.00	0.00
KPP	000602052	Screw, Cap, 5/16"-18 x 1/2", USS, UNC		0.00	EA	0.00	0.00
KPP	000602060	Screw, Cap, 5/16"-18 x 1", UNC, USS		0.00	EA	0.00	0.00
KPP	000602086	Screw, Cap, 5/16"-18 x 1-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602094	Screw, Cap, 5/16"-18 x 1-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602102	Screw, Cap, 5/16"-18 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602110	Screw, Cap, 5/16"-18 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602128	Screw, Cap, 5/16"-18 x 2-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602136	Screw, Cap, 5/16"-18 x 2-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602144	Screw, Cap, 5/16"-18 x 3", UNC, USS		0.00	EA	0.00	0.00
KPP	000602151	Screw, Cap, 3/8"-16 x 1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602169	Screw, Cap, 3/8"-16 x 1-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602177	Screw, Cap, 3/8"-16 x 1-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602185	Screw, Cap, 3/8"-16 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602193	Screw, Cap, 3/8"-16 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602201	Screw, Cap, 3/8"-16 x 2-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602219	Washer, Flat, 5/16", 316 Stainless Steel		0.00	EA	0.00	0.00
KPP	000602227	Screw, Cap, 1/4"-20 x 1/2", 316 SS, UNC,	USS	0.00	EA	0.00	0.00
KPP	000602235	Screw, Cap, 1/4"-20 x 3/4", 316 SS, UNC	USS	0.00	EA	0.00	0.00
KPP	000602243	Screw, Cap, 3/8"-16 x 2-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602250	Screw, Cap, 3/8"-16 x 3-1/2", UNC, USS		0.00	EA	0.40	0.00
KPP	000602268	Screw, Cap, 7/16"-14 x 1-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602276	Screw, Cap, 7/16"-14 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602284	Screw, Cap, 7/16"-14 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602292	Screw, Cap, 7/16"-14 x 2-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602300	Screw, Cap, 7/16"-14 x 2-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602318	Screw, Cap, 7/16"-14 x 2-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602326	Screw, Cap, 1/2"-13 x 1", UNC, USS		0.00	EA	0.00	0.00
KPP	000602334	Screw, Cap, 1/2"-13 x 1-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602342	Screw, Cap, 1/2"-13 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602359	Screw, Cap, 1/2"-13 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602367	Screw, Cap, 1/2"-13 x 2-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602375	Screw, Cap, 1/2"-13 x 2-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602383	Screw, Cap, 1/2"-13 x 3", UNC, USS		0.00	EA	0.00	0.00
KPP	000602391	Screw, Cap, 1/2"-13 x 3-1/4", UNC, USS		0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000602409	Screw, Cap, 1/2"-13 x 3-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602417	Screw, Cap, 9/16"-12 x 1", UNC, USS		0.00	EA	0.00	0.00
KPP	000602425	Screw, Cap, 9/16"-12 x 1-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602433	Screw, Cap, 9/16"-12 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602441	Screw, Cap, 9/16"-12 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602458	Screw, Cap, 5/8"-11 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602466	Screw, Cap, 5/8"-11 x 2", UNC, USS		0.00	EA	0.76	0.00
KPP	000602474	Screw, Cap, 5/8"-11 x 2-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602482	Screw, Cap, 5/8"-11 x 4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602490	Screw, Cap, 5/8"-11 x 4-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602508	Screw, Cap, 5/8"-11 x 5", UNC, USS		0.00	EA	0.00	0.00
KPP	000602516	Screw, Cap, 5/8"-11 x 6", UNC, USS		0.00	EA	0.00	0.00
KPP	000602524	Washer, Lock, 5/16". 316 Stainless steel		0.00	EA	0.00	0.00
KPP	000602532	Screw, Cap, 1/4"-20 x 2", Stainless	316 Stainless Steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602540	Screw, Cap, 5/16"-18 x 1-1/4", Stainless	316 Stainless Steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602557	Screw, Cap, 5/8"-11 x 5-1/2", UNC		0.00	EA	0.00	0.00
KPP	000602565	Screw, Cap, 1/4"-20 x 1", Stainless	316 Stainless Steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602573	Screw, Cap, 1/4"-20 x 1-3/4" Stainless	316 Stainless steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602581	Screw, Cap, 5/16"-18 x 3/4", Stainless	316 Stainless steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602599	Screw, Cap, 5/16"-18 x 2", Stainless	316 Stainless steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602607	Screw, Cap, 3/8"-16 x 3/4", Stainless	316 Stainless steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602615	Screw, Cap, 3/8"-16 x 1-1/4" Stainless	316 Stainless steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602623	Screw, Cap, 3/8"-16 x 2" Stainless	316 Stainless Steel, UNC, USS	0.00	EA	0.00	0.00
KPP	000602631	Screw, Cap, 3/4"-10 x 1-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602649	Screw, Cap, 3/4"-10 x 1-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602656	Screw, Cap, 3/4"-10 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602664	Screw, Cap, 3/4"-10 x 2-1/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602672	Screw, Cap, 3/4"-10 x 2-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602680	Screw, Cap, 3/4"-10 x 2-3/4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602698	Screw, Cap, 3/4"-10 x 3", UNC, USS		0.00	EA	1.60	0.00
KPP	000602706	Screw, Cap, 3/4"-10 x 3-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602714	Screw, Cap, 3/4"-10 x 4-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602722	Screw, Cap, 3/4"-10 x 5", UNC, USS		0.00	EA	0.00	0.00
KPP	000602730	Screw, Cap, 3/4"-10 x 5-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602748	Screw, Cap, 3/4"-10 x 6", UNC, USS		0.00	EA	0.00	0.00
KPP	000602755	Screw, Cap, 3/4"-10 x 6-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602763	Screw, Cap, 7/8"-9 x 2-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602771	Screw, Cap, 7/8"-9 x 3", UNC, USS		0.00	EA	0.00	0.00
KPP	000602789	Screw, Cap, 7/8"-9 x 3-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602797	Screw, Cap, 7/8"-9 x 4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602805	Screw, Cap, 7/8"-9 x 4-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602813	Screw, Cap, 7/8"-9 x 5", UNC, USS		0.00	EA	0.00	0.00
KPP	000602821	Screw, Cap, 1"-8 x 2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602839	Screw, Cap, 1"-8 x 2-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602847	Screw, Cap, 1"-8 x 3", UNC, USS		0.00	EA	0.00	0.00
KPP	000602854	Screw, Cap, 1"-8 x 3-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602862	Screw, Cap, 1"-8 x 4", UNC, USS		0.00	EA	0.00	0.00
KPP	000602870	Screw, Cap, 1"-8 x 4-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602888	Screw, Cap, 1"-8 x 5", UNC, USS		0.00	EA	0.00	0.00
KPP	000602896	Screw, Cap, 1"-8 x 5-1/2", UNC, USS		0.00	EA	0.00	0.00
KPP	000602904	Screw, Cap, 1"-8 x 6", UNC, USS		0.00	EA	0.00	0.00
KPP	000602912	Screw, Cap, 3/8"-16 x 3" Stainless	316 Stainless steel	0.00	EA	0.00	0.00
KPP	000602938	Screw, Cap, 1/2"-13 x 2" Stainless	316 Stainless steel	0.00	EA	0.00	0.00
KPP	000602946	Screw, Cap, 5/8"-11 x 1-1/2", Stainless	316 Stainless steel	0.00	EA	0.00	0.00
KPP	000602953	Screw, Cap, 5/8"-11 x 2" Stainless	316 Stainless steel	0.00	EA	0.00	0.00
KPP	000602961	Screw, Cap, 5/8"-11 x 2-1/2" Stainless	316 Stainless steel	0.00	EA	0.00	0.00
KPP	000602979	Screw, Cap, 1/4"-28 x 1-1/4"		0.00	EA	0.00	0.00
KPP	000602987	Screw, Cap, 1/2"-20 x 4"		0.00	EA	0.00	0.00
KPP	000602995	Pin, Cotter, 5/32" x 3", Stainless steel		0.00	EA	0.00	0.00
KPP	000603001	Pin, Cotter, 3/16" x 2-1/2", Stainless	steel	0.00	EA	0.00	0.00
KPP	000603019	Pin, Cotter, 3/16" x 3", Stainless steel		0.00	EA	0.00	0.00
KPP	000603027	Pin, Cotter, 5/32" x 2", Stainless steel		0.00	EA	0.00	0.00
KPP	000603035	Pin, Cotter, 5/32" x 1-1/2", Stainless	steel	0.00	EA	0.00	0.00
KPP	000603043	Pin, Cotter, 1/8" x 3", Stainless steel		0.00	EA	0.00	0.00
KPP	000603050	Pin, Cotter, 3/32" x 2", Stainless steel		0.00	EA	0.00	0.00
KPP	000603068	Pin, Cotter, 3/32" x 1-1/2" Stainless	steel	0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000603076	Pin, Cotter, 1/8" x 2", Stainless Steel		0.00	EA	0.00	0.00
KPP	000603084	Pin, Cotter, 1/16" x 3/4" Stainless	steel	0.00	EA	0.00	0.00
KPP	000603092	Pin, Cotter, 1/16" x 1", Stainless steel		0.00	EA	0.00	0.00
KPP	000603100	Pin, Cotter, 3/32" x 1" Stainless steel		0.00	EA	0.00	0.00
KPP	000603126	Iron, Flat, 1/4" x 2" 310 and/or 309	stainless steel, 12' lengths	36.00	FT	20.93	753.36
KPP	000603134	Screw, 6-32 x 1/4", Hex socket, Set,	Knurled cup point, Endurion Finish	0.00	EA	0.00	0.00
KPP	000603142	Screw, 8-32 x 1/4", Hex socket, Set,	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603159	Screw, 10-24 x 1/4", Hex socket, Set,	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603167	Screw, 10-32 x 1/4", Hex socket, Set	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603175	Screw, 1/4-20 x 1/4", Set, Hex socket,	Knurled up point, Enduiron finish	0.00	EA	0.00	0.00
KPP	000603183	Screw, 1/4-28 x 1/4", Set, Hex socket,	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603191	Screw, 5/16-18 x 5/16", Set, Hex socket,	Knurled cup point, Endurion Finish	0.00	EA	0.00	0.00
KPP	000603209	Screw, 5/16-24 x 5/16", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603217	Screw, 1/4-20 x 3/8", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603225	Screw, 1/4-28 x 3/8", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603233	Screw, 5/16-18 x 3/8", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603241	Screw, 3/8-16 x 3/8", Set, Hex socket,	Knurled cup point, Endurion Finish	0.00	EA	0.00	0.00
KPP	000603258	Screw, 1/4-20 x 1/2", Set, Hex socket,	Knurled cup point, Endurion Finish	0.00	EA	0.00	0.00
KPP	000603266	Screw, 5/16-18 x 1/2", Set, Hex socket	Knurled cup point, Endurion Finish	0.00	EA	0.00	0.00
KPP	000603274	Screw, 5/16-24 x 1/2", Set, Hex socket,	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603282	Screw, 3/8-16 x 1/2", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603308	Screw, 1/2-13 x 1/2", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603316	Screw, 1/4-20 x 3/4", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603324	Screw, 5/16-18 x 3/4", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603332	Screw, 3/8-16 x 3/4", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603340	Screw, 7/16-14 x 3/4", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603357	Screw, 1/2-13 x 3/4", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603365	Screw, 1/2-13 x 1", Set, Hex socket	Knurled cup point, Endurion finish	0.00	EA	0.00	0.00
KPP	000603373	Washer, Flat, No. 6	304 Stainless steel	0.00	EA	0.00	0.00
KPP	000603381	Washer, Flat, No. 8	304 Stainless steel	0.00	EA	0.00	0.00
KPP	000603407	Nut, Hex, 6-32	304 Stainless steel	0.00	EA	0.00	0.00
KPP	000603415	Nut, Hex, 8-32	304 Stainless Steel	0.00	EA	0.00	0.00
KPP	000603423	Screw, 6-32 x 1", Round Head, Machine	304 Stainless steel	0.00	EA	0.00	0.00
KPP	000603449	Nut, Hex, 10-32, 304 Stainless steel		0.00	EA	0.00	0.00
KPP	000603456	Screw, 6-32 x 1/4", Round Head Machine		0.00	EA	0.00	0.00
KPP	000603464	Screw, 6-32 x 1/2", Round head machine		0.00	EA	0.00	0.00
KPP	000603472	Screw, 6-32 x 3/4", Round head machine		0.00	EA	0.00	0.00
KPP	000603480	Screw, 8-32 x 1", Round head machine		0.00	EA	0.00	0.00
KPP	000603498	Screw, 8-32 x 1/4", Round head machine		0.00	EA	0.00	0.00
KPP	000603506	Screw, 8-32 x 1/2", Round head machine		0.00	EA	0.00	0.00
KPP	000603621	Caustic Soda, Diaphragm No. 4 Flake,	100 lb/drum, Oxychem	0.00	DR	155.46	0.00
KPP	000603639	Gasket, Flex, 2", 600#		0.00	EA	2.82	0.00
KPP	000603647	Blade, Tiger, 6" x 18T		0.00	EA	0.00	0.00
KPP	000603654	Blade, Tiger, 4" x 18T		0.00	EA	0.00	0.00
KPP	000603662	Wheel, Grinding, 4-1/2" x 1/4"		0.00	EA	0.00	0.00
KPP	000603670	Wheel, Grinding, 7" Metal Hub		0.00	EA	0.00	0.00
KPP	000603688	Wheel, Grinding, 7" Mason/Alum		0.00	EA	0.00	0.00
KPP	000603696	Disc, Grinding, 4", 24 G		0.00	EA	0.00	0.00
KPP	000603720	SEAL, MECHANICAL (NEW/REBUILT), 1-1/4"	TYPE 9, DWG #CFSP174000, PRIMARY FUEL	0.00	EA	174.99	0.00
KPP	000603738	Chart, Bailey		10.00	BX	16.24	162.43
KPP	000603746	Brick, Male, 9 x 1.31-2.06 x 3"	Super duty fire Brick, 756pc/pallet	528.00	EA	8.74	4,616.78
KPP	000603753	Brick, Female, 9 x 1.8 - 2.56 x 3",	Super duty fire brick, 648 pc/pallet	535.00	EA	9.18	4,909.27
KPP	000603761	Cam, Valve Lifting		2.00	EA	6.31	12.62
KPP	000603795	Cloth, Welding, Alpha Sil, Style 600	35" x 50 lyd	0.00	EA	792.19	0.00
KPP	000603803	Screw, Machine, 8-32 x 3/4", Round Head		0.00	EA	0.00	0.00
KPP	000603811	Screw, Machine, 8-32 x 2", Round head		0.00	EA	0.00	0.00
KPP	000603829	Screw, Machine, 10-24 x 1/2", Round head		0.00	EA	0.00	0.00
KPP	000603837	Screw, Machine, 10-24 x 1", Round Head		0.00	EA	0.00	0.00
KPP	000603845	Screw, Machine, 10-32 x 1/4", Round head		0.00	EA	0.00	0.00
KPP	000603852	Screw, Machine, 10-32 x 3/4", Round Head		0.00	EA	0.00	0.00
KPP	000603860	Screw, Machine, 10-32 x 1", Round head		0.00	EA	0.00	0.00
KPP	000603878	Nut, Brass, 4-40		0.00	EA	0.00	0.00
KPP	000603886	Nut, Brass, 6-32		0.00	EA	0.00	0.00
KPP	000603894	Nut, Brass, 8-32		0.00	EA	0.00	0.00
KPP	000603902	Nut, Brass, 10-24		0.00	EA	0.00	0.00
KPP	000603910	Nut, Brass, 1/4-20		0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000603928	Screw, Brass, 10-24 x 1-1/2", Machine,	not plated, round head, slotted	0.00	EA	0.00	0.00
KPP	000603936	Screw, Brass, 4-40 x 1/2", Machine,	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000603944	Screw, Brass, 6-32 x 1/2", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000603951	Screw, Brass, 8-32 x 1/2", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000603969	Screw, Brass, 10-24 x 1/2", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000603977	Screw, Brass, 1/4-20 x 1/2", Machine,	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000603985	Screw, Brass, 10-24 x 2", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000603993	Screw, Brass, 4-40 x 3/4", Machine	Round Head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604009	Screw, Brass, 6-32 x 3/4", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604017	Screw, Brass, 8-32 x 3/4", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604025	Screw, Brass, 10-24 x 3/4", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604033	Screw, Brass, 1/4-20 x 3/4", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604041	Screw, Brass, 1/4-20 x 1-1/2", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604058	Screw, Brass, 4-40 x 1", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604066	Screw, Brass, 6-32 x 1", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604074	Screw, Brass, 8-32 x 1", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604082	Screw, Brass, 1/4-20 x 1", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604090	Screw, Brass, 1/4-20 x 2", Machine	Round head slotted, not plated	0.00	EA	0.00	0.00
KPP	000604116	Screw, 1/4-20 x 3/4", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604124	Screw, 1/4-20 x 1", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604132	Screw, 5/16-18 x 1/2", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604140	Screw, 5/16-18 x 3/4", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604157	Screw, 5/16-18 x 1", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604165	Screw, 5/16-18 x 1-1/4", Set,	Square head, USS thread-cup point	0.00	EA	0.00	0.00
KPP	000604173	Screw, 3/8-16 x 1/2", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604181	Screw, 3/8-16 x 5/8", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604199	Screw, 3/8-16 x 3/4", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604207	Screw, 3/8-16 x 1", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604215	Screw, 3/8-16 x 1-1/4", Set, Square head	USS thread-cup point, Unichrome plate	0.00	EA	0.00	0.00
KPP	000604223	Screw, 3/8-16 x 1-1/2", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604231	Screw, 7/16-14 x 3/4", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604249	Screw, 7/16-14 x 1", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604256	Screw, 7/16-14 x 1-1/2", Set, Sq. head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604264	Screw, 1/2-13 x 1", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604272	Screw, 1/2-13 x 1-1/4", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604280	Screw, 1/2-13 x 1-1/2", Set, Square head	USS thread-cup point, Unichrome plated	0.00	EA	0.00	0.00
KPP	000604298	Pin, Spirol, 1/16 x 1/4, 1070 Carbon	steel, Oiled finish, Magnetic	0.00	EA	0.00	0.00
KPP	000604306	Pin, Spirol, 3/16 x 2, 1070 Carbon	Steel, Oiled finish, Magnetic	0.00	EA	0.00	0.00
KPP	000604314	Pin, Spirol, 5/32 x 3/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604322	Pin, Spirol, 5/32 x 1-1/4, Oiled finish	1070 Carbon steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604330	Pin, Spirol, 7/32 x 1-3/8, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604348	Pin, Spirol, 7/32 x 1-3/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604355	Pin, Spirol, 5/64 x 9/16, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604363	Pin, Spirol, 5/64 x 1-1/2, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604371	Pin, Spirol, 3/16 x 3/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604389	Pin, Spirol, 1/4 x 1-1/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604397	Pin, Spirol, 1/4 x 1-1/2, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604405	Pin, Spirol, 1/4 x 2, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604413	Pin, Spirol, 3/32 x 5/8, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604421	Pin, Spirol, 3/32 x 1-1/8, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604439	Pin, Spirol, 3/16 x 1, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604447	Pin, Spirol, 3/16 x 1-1/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604454	Pin, Spirol, 5/16 x 1-1/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604462	Pin, Spirol, 5/16 x 1-3/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604470	Bar, Round, 1", 310 &/or 309 Stainless	Steel, 310 preferred	18.00	FT	11.16	200.80
KPP	000604488	Pin, Spirol, 1/8 x 3/4, Oiled finish,	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604496	Pin, Spirol, 1/8 x 1-1/4, Oiled finish,	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604504	Pin, Spirol, 3/16 x 1-1/2, Oiled finish,	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604512	Pin, Spirol, 5/16 x 3/4, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604520	Pin, Spirol, 5/16 x 1-1/2, Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604538	Pin, Spirol, 5/16 x 2", Oiled finish	1070 Carbon Steel, Magnetic	0.00	EA	0.00	0.00
KPP	000604553	Washer, Flat, Brass, For No. 8 bolt		0.00	EA	0.00	0.00
KPP	000604561	Fitting, Grease, 1/4-28 thread, Short,	90 degree angle	0.00	EA	0.00	0.00
KPP	000604579	Fitting, Grease, 1/8" P.T. 30 degree	elbow w/ Ball check	0.00	EA	0.00	0.00
KPP	000604587	Fitting, Grease, 1/8" P.T., Self thread		0.00	EA	0.00	0.00
KPP	000604595	Fitting, Grease, 1/8" P.T., Straight w/	Ball Check	0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000604603	Disconnect, Quick, Female push,	16-14 Wire size, .250 Tab size	0.00	EA	0.23	0.00
KPP	000604611	Disconnect, Quick, Male Push, 16-14 Wire	size, .250 Tab size	0.00	EA	0.00	0.00
KPP	000604629	Tongue, Ring, 22-16 Wire size, No. 4-6	Stud size	0.00	EA	0.00	0.00
KPP	000604637	Tongue, Ring, 22-16 Wire size, No. 8-10	Stud Size	0.00	EA	0.00	0.00
KPP	000604645	Tongue, Spade, 22-16 Wire Size, No. 8-10	Stud size	0.00	EA	0.00	0.00
KPP	000604652	Connector, Butt, 22-16 Wire size		0.00	EA	0.00	0.00
KPP	000604660	Tongue, Ring, 16-14 Wire size, No. 4-6	Stud size	0.00	EA	0.00	0.00
KPP	000604678	Tongue, Ring, 16-14 Wire size, No. 8-10	Stud size	0.00	EA	0.00	0.00
KPP	000604686	Tongue, Ring, 16-14 Wire size, 1/4" Stud	size	0.00	EA	0.00	0.00
KPP	000604694	Tongue, Hook, 16-14 Wire size, No. 8-10	Stud size	0.00	EA	0.00	0.00
KPP	000604702	Tongue, Spade, 16-14 Wire size, No. 8-10	Stud size	0.00	EA	0.00	0.00
KPP	000604710	Connector, Butt, 16-14 Wire size		0.00	EA	0.00	0.00
KPP	000604728	Connector, Butt, 12-10 Wire Size		0.00	EA	0.00	0.00
KPP	000604736	Plug, Snap, 16-14 Wire size, 1.57 Snap	Dia.	0.00	EA	0.00	0.00
KPP	000604744	Tongue, Spade, 12-10 Wire size, No. 8-10	Stud size	0.00	EA	0.00	0.00
KPP	000604751	Tongue, Ring, 16-12 Wire size,	7/16" - 1/2" Stud size, Heavy duty	0.00	EA	0.00	0.00
KPP	000604769	Tongue, Ring, 12-10 Wire size,	7/16" - 1/2" Stud size	0.00	EA	0.00	0.00
KPP	000604777	Tongue, Ring, 16-12 Wire size,	5/16" - 3/8" Stud size, Heavy duty	0.00	EA	0.00	0.00
KPP	000604785	Tongue, Ring, 12-10 Wire size,	5/16" - 3/8" Stud size	0.00	EA	0.00	0.00
KPP	000604793	Tongue, Ring, 16-12 Wire size,	1/4" - 5/16" Stud size, Heavy duty	0.00	EA	0.00	0.00
KPP	000604801	Drive, Mandrel, 3/4" x 3MT		0.00	EA	0.00	0.00
KPP	000604819	Drive, Mandrel, 1" x 3MT		1.00	EA	138.11	138.11
KPP	000604827	COUPLING, 3/4", GALVANIZED		0.00	EA	0.70	0.00
KPP	000604835	NIPPLE, 3/4" X 4", STANDARD		0.00	EA	0.59	0.00
KPP	000604843	NIPPLE, 2" X 4", STANDARD		0.00	EA	1.14	0.00
KPP	000604850	COUPLING, REDUCING, 3/4" X 1/2", 300#		0.00	EA	2.25	0.00
KPP	000604876	Tongue, Ring, 12-10 Wire size, 1/4" Stud	size	0.00	EA	0.00	0.00
KPP	000604884	Tongue, Ring, 16-12 Wire size, 1/4" Stud	size, Heavy Duty	0.00	EA	0.00	0.00
KPP	000604892	Tongue, Ring, 12-10 Wire size,	No. 8 - 10 Stud size	0.00	EA	0.00	0.00
KPP	000604900	Tongue, Ring, 16-12 Wire size,	No. 8-10 Stud size, Heavy duty	0.00	EA	0.00	0.00
KPP	000604918	BAR, FLAT, 1" X 6" X various lengths	corten steel	2.00	LG	1,148.89	2,297.77
KPP	000604926	PLATE, CORTEN STEEL, 1/4", 48" x 96"		2.00	SH	450.54	901.08
KPP	000604934	PLATE, CORTEN STEEL	3/16" X 60" X 96"	1.00	SH	502.26	502.26
KPP	000605436	PACKING, TADPOLE, 3/4" X 2"	TETRAGLAS 3000 TAPE W/3000 ROPE CORE	100.00	FT	4.91	490.59
KPP	000605469	TRANSMITTER, I TO P(CURRENT TO PRESSURE)	MODEL INFI-90	1.00	EA	572.00	572.00
KPP	000606459	STEM	QUICK-CONNECT	3.00	EA	22.81	68.43
KPP	000606467	BODY	QUICK - CONNECT	3.00	EA	55.21	165.62
KPP	000606475	VALVE, 1/4" FEMALE PLUG, SWAGELOK	(ALL UNITS)	6.00	EA	28.70	172.17
KPP	000606483	VALVE, 1/4" PLUG, SWAGELOK	(ALL UNITS)	7.00	EA	29.23	204.64
KPP	000606491	VALVE, 1/4" PLUG, SWAGELOK	(ALL UNITS)	1.00	EA	29.17	29.17
KPP	000606772	REGULATOR, PRESSURE, FISHER	TYPE 95 H-5-2, SPRING 25-75, TRIM: SST,	1.00	EA	0.00	0.00
KPP	000606988	CAM, FORWARD ACTING HALF	ALL UNITS	3.00	EA	17.19	51.56
KPP	000606996	CAM, REVERSE ACTING HALF	ALL UNITS	4.00	EA	17.19	68.75
KPP	000607002	OIL RING	FORCED DRAFT FAN.	6.00	EA	31.89	191.36
KPP	000607051	Reducer, coupling, 1" x 3/4", Threaded	Black Iron, Sch 80, Extra Heavy Duty	0.00	EA	0.00	0.00
KPP	000607374	PLUG, SQUARE HEAD, 1/4", THREADED, BLACK	IRON, SCH 80, EXTRA HEAVY DUTY, 3000 PSI	0.00	EA	0.00	0.00
KPP	000607382	PLUG, SQUARE HEAD, 3/8", THREADED, BLACK	IRON, SCH 80, EXTRA HEAVY DUTY, 3000 PSI	0.00	EA	0.00	0.00
KPP	000607390	PLUG, SQUARE HEAD, 1/2", THREADED, BLACK	IRON, SCH 80, EXTRA HEAVY DUTY, 3000 PSI	0.00	EA	0.00	0.00
KPP	000607408	PLUG, SQUARE HEAD, 1", THREADED, BALCK	IRON, SCH 80, EXTRA HEAVY DUTY, 3000 PSI	0.00	EA	0.00	0.00
KPP	000607457	BATTERY, AAA		0.00	EA	0.39	0.00
KPP	000607739	Nipple, 1/4" x 3-1/2", Threaded, Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000607747	Nipple, 1/4" x 4", Threaded, Black Iron,	Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000607796	Nipple, 3/8" x 3-1/2", Threaded, Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000607820	Nipple, 3/8" x 4", Threaded, Black Iron,	Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000607879	Nipple, 1/2" x 3-1/2", Threaded, Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000607887	Nipple, 1/2" x 4", Threaded, Black Iron,	Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000608018	Nipple, 3/4" x 3-1/2", Threaded, Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000608026	Nipple, 3/4" x 4", Threaded, Black Iron	Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000608075	Nipple, 1" x 4", Threaded, Black Iron,	Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000608125	Nipple, 1-1/4" x 4", Threaded, Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000608174	Nipple, 1-1/2" x 4", Threaded, Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000608216	Nipple, 2" x 3-1/2", Threaded, Black	Iron, Sch 80, Extra Heavy Duty, 3000 psi	0.00	EA	0.00	0.00
KPP	000608307	Elbow, 90 degree, 1-1/4", Galv,	Threaded, Sch 40, 150 lbs	0.00	EA	0.00	0.00
KPP	000608315	Elbow, 90 degree, 1-1/2", Galv., Sch 40,	Threaded, 150 lbs	0.00	EA	0.00	0.00
KPP	000608323	Elbow, 90 degree, 2", Threaded, Galv.,	Sch 40, 150 lbs	0.00	EA	0.00	0.00
KPP	000608380	Cap, 1-1/4", Threaded, Galv., Sch 40,	150 lbs	0.00	EA	0.00	0.00
KPP	000608398	Cap, 1-1/2", Threaded, Galv., Sch 40,	150 lbs	0.00	EA	0.00	0.00
KPP	000608406	Cap, 2", Threaded, Galv., Sch 40,	150 lbs	0.00	EA	0.00	0.00
KPP	000608463	Tee, 1-1/4", Threaded, Galv., Sch 40,	150 lbs	0.00	EA	0.00	0.00
KPP	000608471	Tee, 1-1/2", Threaded, Galv., Sch 40,	150 lbs	0.00	EA	0.00	0.00
KPP	000608547	Bushing, Hex, 1-1/4" x 1", Galv, Sch 40,	Threaded, 150 lbs	0.00	EA	0.00	0.00
KPP	000608554	Bushing, Hex, 2" x 1-1/2", Galv, Sch 40,	Threaded, 150 lbs	0.00	EA	0.00	0.00
KPP	000608562	BRICK, STRAIGHT FIRE,	9" X 4-1/2" X 2-1/2"	457.00	EA	3.32	1,517.42
KPP	000608570	LAMP, INDICATING	COLOR: AMBER	0.00	EA	65.18	0.00
KPP	000608919	BOLT, SQUARE, GRADE 8, 11/4-7 X 5	K3 BURNER STEAM PIPING	14.00	EA	0.00	0.00
KPP	000608927	NUT, HEX, GRADE 8, 1-1/4 UNC	K3 BURNER STEAM PIPING	24.00	EA	0.00	0.00
KPP	000608935	ROD, THREADED, 3/4", 10 X 3', STAINLESS	STEEL, GRADE 310	2.00	EA	285.90	571.81
KPP	000609982	BALLAST, ADVANCE	R-2S40TP 2-40 120V	7.00	EA	12.52	87.63
KPP	000610774	CLUSTER, FINGER	FOR DB-25	3.00	EA	183.19	549.56
KPP	000610782	SLEEVE, SHAFT	DURAMETALLIC 2D-1780	2.00	EA	0.00	0.00
KPP	000611244	THERMOMETER	0-250F, 5" FACE, 2-1/2" STEM	2.00	EA	117.70	235.40
KPP	000611251	THERMOMETER	50-550F, 5" FACE, 4" STEM	2.00	EA	119.78	239.57
KPP	000611269	THERMOMETER	50-400F, 5" FACE, 2-1/2" STEM	2.00	EA	107.38	214.75
KPP	000611277	GAUGE, ASHCROFT	15# PSI, 2-1/2 DURALIFE GAUGE	1.00	EA	42.35	42.35
KPP	000611285	GAUGE, ASHCROFT- SIZE: - 2-1/2"	NOTE: minus 30 to 60 psi	2.00	EA	50.81	101.62
KPP	000611293	GAUGE, ASHCROFT	100# PSI, 25-1009AW-02L-300IMV & 100#	6.00	EA	0.00	0.00
KPP	000611301	GAUGE, ASHCROFT	100# PSI, 25-1009AW-02L-100# PSI	5.00	EA	44.88	224.38
KPP	000611319	GAUGE, ASHCROFT	300# PSI, 2-1/2 DURALIFE GAUGE	3.00	EA	48.08	144.25
KPP	000611327	GAUGE, ASHCROFT	400# PSI, 2-1/2 DURALIFE GAUGE	2.00	EA	53.69	107.38
KPP	000611335	GAUGE, ASHCROFT	4-1/2" FACE, 0-30# PSI	3.00	EA	76.02	228.05
KPP	000611343	GAUGE, ASHCROFT, VACUUM	4-1/2" FACE, 30" VAC-30# PSI	2.00	EA	89.00	178.01
KPP	000611350	GAUGE, ASHCROFT, LIQUID FILLED	4/1/2" FACE, 30 VAC-30# PSI	3.00	EA	96.65	289.96
KPP	000611368	GAUGE, ASHCROFT	4/1/2" FACE, 0-60 PSI	3.00	EA	92.58	277.74
KPP	000611376	GAUGE, ASHCROFT	4-1/2: FACE, 0-100# PSI	3.00	EA	89.93	269.78
KPP	000611384	GAUGE, ASHCROFT	4-1/2" FACE, 0-160# PSI	2.00	EA	75.09	150.19
KPP	000611392	GAUGE, ASHCROFT	4/1/2" FACE, 0-200# PSI	2.00	EA	124.13	248.27
KPP	000611400	GAUGE, ASHCROFT	4-1/2" FACE, 0-300# PSI	2.00	EA	179.40	358.79
KPP	000611418	GAUGE, ASHCROFT	4-1/2" FACE, 0-600# PSI	5.00	EA	134.40	672.00
KPP	000611426	GAUGE, ASHCROFT	4-1/2" FACE, 0-2,000# PSI	2.00	EA	207.02	414.05
KPP	000611541	FORM: DAILY CIRCULATING WATER PUMP	OPERATION (100 SHEETS PER PAD)	19.00	PD	4.73	89.78
KPP	000611558	FORM: HOURLY METER READING	(100 SHEETS PER PAD)	25.00	PD	3.85	96.30
KPP	000611566	FORM: TURBINE LOG SHEET	(250 SHEETS PER PACKAGE, LOOSE)	4.00	PG	45.49	181.97
KPP	000611574	FORM: BOILER LOG SHEET	(250 SHEETS PER PACKAGE, LOOSE)	4.00	PG	96.22	384.88
KPP	000611582	FORM: SWITCHBOARD LOG SHEET	(250 SHEETS PER PACKAGE, LOOSE)	7.00	PG	95.68	669.76
KPP	000611590	TRAP, STEAM, THREADED, 1", YARWAY		0.00	EA	414.56	0.00
KPP	000611616	PLATE, BACK	FOR K1 BURNER	0.00	EA	0.00	0.00
KPP	000611624	LAMP	55C2, MINI	60.00	EA	2.05	123.11
KPP	000611863	THREADED ROD - 1/4"-20/SS	STAINLESS STEEL	7.00	PC	0.00	0.00
KPP	000611871	THREADED ROD - 7/16"-14/SS	STAINLESS STEEL	2.00	PC	128.69	257.39
KPP	000611889	THREADED ROD - 1/2"-13/SS	STAINLESS STEEL	2.00	PC	50.47	100.94
KPP	000611897	THREADED ROD - 5/8"-11/SS	STAINLESS STEEL	9.00	PC	259.07	2,331.67
KPP	000611905	THREADED ROD - 7/8"-9/SS	STAINLESS STEEL	3.00	PC	69.39	208.16
KPP	000611913	THREADED ROD - 1"-8/SS	STAINLESS STEEL	4.00	PC	208.32	833.29
KPP	000612101	PROBE, PROXIMITY, 8MM	VIBRATION MONITOR SYSTEM K3, K4	1.00	EA	146.64	146.64
KPP	000612119	PROBE, PROXIMITY, 8MM	VIBRATION MONITOR SYSTEM, K3, K4	1.00	EA	407.68	407.68
KPP	000612135	PROBE, PROXIMITY, 8MM	VIBRATION MONITOR SYSTEM, K3, K4	2.00	EA	146.64	293.28
KPP	000613414	VALVE	NPT NEEDLE	3.00	EA	23.97	71.91
KPP	000613422	VALVE	NPT NEEDLE	9.00	EA	73.74	663.62
KPP	000614156	KIT, SEAL, FOR FISHER 546,	SEAL MATERIAL: NITRILE	2.00	KT	25.31	50.62
KPP	000614164	KIT, REPLACMENT RELAY, FISHER 546	FOR I/P TRANSDUCER	2.00	KT	141.09	282.17
KPP	000614172	THERMOMETER	BIMETAL, SWIVEL HEAD 5" FACE 24" STEM	2.00	EA	144.27	288.53
KPP	000614255	LAMP, SYVANIA 64490-0 METALARC, CLEAR	SIZE: 400W	14.00	EA	23.16	324.20
KPP	000614264	LAMP, METAL HALIDE, SYLVANIA 64457-0	METALARC M/MS	15.00	EA	23.34	350.13
KPP	000614276	LAMP	TIME CLOCK	20.00	EA	0.43	8.62

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000614292	LAMP, MINIATURE, SUNRAY		20.00	EA	1.00	19.90
KPP	000614301	LAMP	MINI	20.00	EA	1.36	27.13
KPP	000614420	VALVE, PRESSURE RELIEF	FOR 153 & 154 PRIMARY FUEL OIL PUMPS	0.00	EA	0.00	0.00
KPP	000614487	LAMP, 400W		0.00	EA	0.00	0.00
KPP	000614488	GAUGE, 30IMV-100PSI	2.5" dial	0.00	EA	56.35	0.00
KPP	000614489	RELAY, ASSEMBLY	HI TEMP	1.00	EA	140.78	140.78
KPP	000614490	SWITCH, W-2	BREAKER CLOSE	2.00	EA	374.50	748.99
KPP	000614491	ENCLOSURE	GAITRONICS	5.00	EA	82.94	414.72
KPP	000614492	AMPLIFIER, SPEAKER	GAITRONICS	21.00	EA	160.64	3,373.36
KPP	000614493	COUPLING, FORCED DRAFT FAN		2.00	EA	0.00	0.00
KPP	000614494	ASSEMBLY, PC BOARD. FOR EXCITER	1501-803-03, 12J, 115VAC.	1.00	EA	1,106.18	1,106.18
KPP	000614495	IGNITOR	FLEX SPARK CABLE	3.00	EA	338.00	1,014.00
KPP	000614496	EXCITER, SPARK IGNITOR	BOILER	1.00	EA	2,377.44	2,377.44
KPP	000614497	IGNITOR, SWITCH	LOCAL BOX K-1	0.00	EA	0.00	0.00
KPP	000614498	SWITCH, PRESSURE	PNEUMATIC CONTROLS	1.00	EA	154.44	154.44
KPP	000614499	REGULATOR, PRESSURE	0 - 60#	1.00	EA	93.71	93.71
KPP	000614500	NUT, HEX	PNEUMATIC CONTROLS	126.00	EA	2.08	262.47
KPP	000614501	STUD, BOLTS	7/16" X 2-1/2"	73.00	EA	1.04	76.04
KPP	000614502	STUD, BOLTS	7/16"-20 X 5-3/8"	58.00	EA	3.12	180.96
KPP	000614503	WASHER	FLAT K-1 K-2 UNITS	125.00	EA	1.04	130.00
KPP	000614504	THERMOMETER, 0/200F	TURBINE	2.00	EA	73.43	146.87
KPP	000614505	BALLAST	BAILEY RECORDER	4.00	EA	3.39	13.54
KPP	000614506	TRANSMITTER, MANIFOLD	K-1 K-2 UNIT	4.00	EA	0.00	0.00
KPP	000614507	TRANSMITTER, TEMPERATURE	K-1 K-2 UNITS	1.00	EA	0.00	0.00
KPP	000614508	ASSEMBLY, MOTOR & GEAR	K-1 K-2 UNIT	2.00	EA	0.00	0.00
KPP	000614509	FILTER, PCU	PNEUMATIC CONTROLS	3.00	EA	0.00	0.00
KPP	000614510	GAUGE, LEVEL, 0-150"	FUEL OIL TANK	4.00	EA	62.24	248.96
KPP	000614511	KIT, REPAIR, SKINNER	COMPRESSOR	2.00	EA	69.26	138.52
KPP	000614512	O-RING, VITON	REVERSE OSMOSIS	0.00	EA	0.00	0.00
KPP	000614513	O-RING, VITON	REVERSE OSMOSIS	0.00	EA	0.00	0.00
KPP	000614514	O-RING, VITON		0.00	EA	0.00	0.00
KPP	000614515	GASKET, MANHOLE	FUEL OIL TANK	1.00	EA	49.67	49.67
KPP	000614516	O-RING	FUEL OIL TANK	6.00	EA	0.64	3.84
KPP	000614517	O-RING	FUEL OIL TANK	0.00	EA	0.00	0.00
KPP	000614518	BRUSH, BOTTLE	GEN. PLANT	4.00	EA	0.00	0.00
KPP	000614519	BRUSH, BOTTLE	GEN. PLANT	4.00	EA	3.37	13.50
KPP	000614520	KIT, REBUILD SOLENOID	K-3 BURNER IGNITOR	1.00	EA	114.73	114.73
KPP	000614521	KIT, REBUILD SOLENOID	K-3 BURNER IGNITOR	2.00	EA	0.00	0.00
KPP	000614522	COIL	SOLENOID B94	1.00	EA	0.00	0.00
KPP	000614523	SOLENOID,	K-3 BOILER	1.00	EA	0.00	0.00
KPP	000614524	KIT, REPAIR, SOLENOID	K-3 BURNER	1.00	EA	0.00	0.00
KPP	000614525	PROBE, LONG,	CATHODE, ZINC REFERENCE	0.00	EA	0.00	0.00
KPP	000614526	SOLENOID	K-4 IGNITOR	1.00	EA	0.00	0.00
KPP	000614527	KIT, REPAIR, SOLENOID	K-4 IGNITOR	5.00	EA	0.00	0.00
KPP	000614528	MOTOR,	SMOKE DETECTOR	1.00	EA	0.00	0.00
KPP	000614529	CARD, CONTROL, MANUAL, PC ASSEMBLY	VIP 1 PH ONBD CONTROL	1.00	EA	0.00	0.00
KPP	000614530	TRANSDUCER	VIBRATION MONITOR,	1.00	EA	0.00	0.00
KPP	000614531	CABLE	EXTENSION, VIBRATION	1.00	EA	0.00	0.00
KPP	000614532	CABLE, EXTENSION, 16.4	K-3, K-4 VIBRATION	2.00	EA	0.00	0.00
KPP	000614533	ASSEMBLY, TUBE, BOURDON	FUEL OIL REGULATOR	1.00	EA	0.00	0.00
KPP	000614534	ADAPTER	REVERSE OSMOSIS	2.00	EA	0.00	0.00
KPP	000614535	SHAFT, CONTROLLER	REVERSE OSMOSIS	1.00	EA	0.00	0.00
KPP	000614536	SEAT, DISC.	REVERSE OSMOSIS	6.00	EA	0.00	0.00
KPP	000614537	CAP, END	REVERSE OSMOSIS	1.00	EA	0.00	0.00
KPP	000614538	GASKET	CARTRIDGE	7.00	EA	0.00	0.00
KPP	000614539	GASKET	CARTRIDGE	1.00	EA	0.00	0.00
KPP	000614540	GASKET	HANDWAY	2.00	EA	0.00	0.00
KPP	000614541	GASKET	MOUNTING PLATE	6.00	EA	0.00	0.00
KPP	000614542	GASKET	SEAT	0.00	EA	0.00	0.00
KPP	000614543	GASKET	WASHER	12.00	EA	0.00	0.00
KPP	000614544	REGULATOR, FLOW, MODEL GX, 30.0 GPM	REVERSE OSMOSIS	1.00	EA	0.00	0.00
KPP	000614545	RING, RETAINER	REVERSE OSMOSIS	13.00	EA	18.77	243.96
KPP	000614546	SCREEN	STRAINER	6.00	EA	0.00	0.00
KPP	000614547	LENS, STRIP, COLORED	VIBRATION MONITOR	1.00	EA	0.00	0.00
KPP	000614548	DIAPHRAGM	SOLENOID	16.00	EA	6.24	99.84
KPP	000614549	VALVE	SEAT CHECK	5.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000614550	FILTER	WATER, ECO WATER	68.00	EA	9.95	676.80
KPP	000614551	ASSEMBLY, EDUCTOR, WITH O-RING	REVERSE OSMOSIS	2.00	EA	0.00	0.00
KPP	000614552	SWITCH	AUX. PILOT	1.00	EA	0.00	0.00
KPP	000614553	SWITCH	BRACKET ASSEMBLY	3.00	EA	0.00	0.00
KPP	000614554	SWITCH	LIMIT	3.00	EA	0.00	0.00
KPP	000614555	SWITCH, LEVEL, FLOAT	K1 PNEUMATIC CONTROL	2.00	EA	0.00	0.00
KPP	000614556	SWITCH, LEVEL	K1 PNEUMATIC CONTROL	1.00	EA	224.64	224.64
KPP	000614557	SWITCH, LEVEL, (RIGHT HAND)	K1 PNEUMATIC CONTROL	0.00	EA	0.00	0.00
KPP	000614558	SWITCH, LEVEL, (LEFT HAND)	K1 PNEUMATIC CONTROL	1.00	EA	106.08	106.08
KPP	000614559	SWITCH, PRESSURE, CONTROL	35-375 PSI, TYPE 4 & 13	2.00	EA	360.92	721.83
KPP	000614560	SWITCH	PRESSURE COVER	6.00	EA	0.00	0.00
KPP	000614561	SWITCH	MOTOR CONTROL	0.00	EA	0.00	0.00
KPP	000614562	IGNITOR	TRANSFORMER	1.00	EA	0.00	0.00
KPP	000614563	LOCKPLATE	SIZE: 3/4"	24.00	EA	0.00	0.00
KPP	000614564	LOCKPLATE	SIZE: 5/16"	36.00	EA	0.00	0.00
KPP	000614565	LOCKPLATE	SIZE: 3/8"	20.00	EA	0.00	0.00
KPP	000614566	LOCKPLATE	SIZE: 5/8"	50.00	EA	0.00	0.00
KPP	000614567	FAN	SMALL COOLING	2.00	EA	0.00	0.00
KPP	000614568	WASHER	COPPER, BAILEY	7.00	EA	0.00	0.00
KPP	000614569	LAMP, MINI	2-1/4V	10.00	EA	0.00	0.00
KPP	000614570	LAMP, INCANDESCENT	SIZE: 15W	0.00	EA	0.00	0.00
KPP	000614571	LAMP, INCANDESCENT	GAITRONIC	12.00	EA	0.00	0.00
KPP	000614572	LAMP	HPS SIZE: 100W LU	10.00	EA	41.34	413.41
KPP	000614573	LAMP, HEAT, SIZE: 120V	HEAT	6.00	EA	15.75	94.50
KPP	000614574	LAMP, MINI	GEN. PLANT	10.00	EA	0.00	0.00
KPP	000614628	PEN, DISPOSABLE, RED	FOR MASTER CLOCK TIME DEVIATION AND	18.00	EA	5.72	103.02
KPP	000614701	ALARM MODULE	FOR K3 STATIC EXCITER ANNUCIATOR, RONAN,	1.00	EA	336.44	336.44
KPP	000614702	HORN, FLASHER, DRIVER MODULE	FOR K3 STATIC EXCITER ANNUNCIATOR, RONAN	1.00	EA	280.19	280.19
KPP	000614703	ASSEMBLY, LAMP MODULE	FOR K3 STATIC EXCITER ANNUNCIATOR, RONAN	2.00	EA	50.00	99.99
KPP	000614722	GAUGE, BRONZE TUBE 2.5", 30 PSI	ASHCROFT	1.00	EA	50.41	50.41
KPP	000614723	GAUGE, BRONZE TUBE 2.5, 60 PSI	ASHCROFT	2.00	EA	47.43	94.85
KPP	000614724	GAUGE, BRONZE TUBE, 4.5", 400 PSI	ASHCROFT	2.00	EA	112.60	225.20
KPP	000614727	GAUGE, BRONZE TUBE, ASHCROFT, 600 PSI	KAHULUI UNITS 1 & 3	1.00	EA	67.86	67.86
KPP	000614784	PEN, DISPOSABLE, RED INK	MODEL NO. S/N93190009-10, KAHULUI 1 & 2.	2.00	PK	10.39	20.78
KPP	000614792	BRUSH, BRASS, BRISTLE WIRE	TO CLEAN BURNER TYPS, SPRAY PLUGS, AND	21.00	EA	8.97	188.37
KPP	000614800	NUT, RETAINING, KAHULUI 4	FOR FUEL OIL STEAM ATOMIZED BURNERS	8.00	EA	141.92	1,135.34
KPP	000614818	PLUG, BACK, KAHULUI 4	FOR FUEL OIL STEAM ATOMIZED BURNERS	8.00	EA	244.78	1,958.21
KPP	000614826	PLATE, SPRAY, KAHULUI 4	FOR FUEL OIL STEAM ATOMIZED BURNERS	5.00	EA	203.11	1,015.56
KPP	000614834	NUT, RETAINING, KAHULUI 3	FOR FUEL OIL STEAM ATOMIZED BURNERS	8.00	EA	104.16	833.28
KPP	000614842	PLUG, BACK, KAHULUI 3	FOR FUEL OIL STEAM ATOMIZED BURNERS	8.00	EA	356.13	2,849.03
KPP	000614859	PLATE, SPRAY, KAHULUI 3	FOR FUEL OIL STEAM ATOMIZED BURNERS	5.00	EA	311.34	1,556.68
KPP	000614867	NUT, RETAINING, KAHULUI 2	FOR FUEL OIL STEAM ATOMIZED BURNERS	6.00	EA	93.74	562.46
KPP	000614875	NUT, RETAINING, KAHULUI 1	FOR FUEL OIL STEAM ATOMIZED BURNERS	11.00	EA	93.74	1,031.18
KPP	000614883	PLUG, BACK, FOR FUEL OIL STEAM ATOMIZED	BURNERS.	14.00	EA	301.06	4,214.88
KPP	000614891	PLATE, SPRAY, KAHULUI 1 & 2	FOR FUEL OIL STEAM ATOMIZED BURNERS	14.00	EA	236.33	3,308.60
KPP	000614909	BEARING, CUTLESS, CODE NAME 'CINDY',	1-1/8" X 1-5/8" X 4-1/2".	2.00	EA	0.00	0.00
KPP	000614941	PLATE, CORTEN STEEL	3/8" X 4' X 8'	2.00	SH	403.03	806.05
KPP	000614958	FILTER, PLEATED PAPER	FOR AIR CLEANING FILTRATION SYSTEM	2.00	EA	95.64	191.28

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000614966	BUSHING, LOCK, IMPELLER, 1-15/16" DIA.,	316 STAINLESS STEEL, MODEL 6360W-2 STAGE	4.00	EA	1,111.39	4,445.54
KPP	000614974	IMPELLER, LOCK NUT, 316 STAINLESS STEEL,	MODEL #6360W-2 STAGE, SN K2J2-081358	1.00	EA	0.00	0.00
KPP	000615095	KIT, REPAIR	FOR ATWOOD & MORRILL EXTRACTION TRIP	2.00	EA	0.00	0.00
KPP	000615096	RELAY, FISHER, 3-15#	FOR FISHER TYPE 4195KBR & 4194 HB	2.00	EA	163.92	327.84
KPP	000615097	RELAY, FISHER, 6-30#	FOR FISHER TYPE 4195KBR & 4194 HB	2.00	EA	215.87	431.74
KPP	000615098	GAUGE, FISHER, 0-60#	FOR FISHER TYPE 4195KBR & 4194 HB	3.00	EA	26.61	79.84
KPP	000615099	GAUGE, FISHER, 0-30#	FOR FISHER TYPE 4195KBR & 4194 HB	8.00	EA	27.36	218.90
KPP	000615100	GLASS, GAGE, 5/8"DIAMETER, 4' LONG	RED LINE, MODELINE, STANDARD WALL	5.00	LG	40.54	202.71
KPP	000615104	BRUSH, GAUGE GLASS, SIZE: 3/8"	FOR SIGHT GLASS.	6.00	EA	19.97	119.81
KPP	000615105	GLASS, GAGE, 3/4" DIAMETER, 4' LONG	RED LINE, MODELINE, STANDARD WALL	5.00	EA	62.84	314.18
KPP	000615106	GLASS, GAGE, 3/4" DIAMETER, 4' LONG	RED LINE, MODELINE, HEAVY DUTY WALL	6.00	EA	59.69	358.12
KPP	000615211	ASSEMBLY, HOSE, WITH COVER	FOR KAHULUI 4 BURNER	2.00	AY	370.33	740.65
KPP	000615518	CLUTCH, OVER-RUNNING, FORMSPRAG MODEL	HPO-800, DUAL BOLT PATTERN FOR THE LEFT	1.00	EA	6,295.43	6,295.43
KPP	000615609	SOLUTION, PH ELECTRODE STORAGE, 500 ML	FOR MARKSON OR ORION PH METERS.	3.00	EA	13.73	41.18
KPP	000615610	BUSHING, GRADE 212 GRAPHALLOY SPHERIAL	2.485/2.475 IN O.D. X 1.261/1.259 IN I.D	13.00	EA	71.16	925.14
KPP	000615666	CAP, CARTRIDGE	KAHULUI, WATER SOFTNER HI FLO 5 VALVE	7.00	EA	2.75	19.22
KPP	000615724	MOLYBDATE, 3 REAGENT, SIZE:100 ML BOTTLE	FOR CHEMICAL TESTING (LOW RANGE SILICA)	10.00	BT	14.92	149.17
KPP	000615725	AMINO ACID, F REAGENT, 100/PK	FOR CHEMICAL TESTING (LOW RANGE SILICA)	4.00	PK	15.76	63.03
KPP	000615732	BUSHING	FOR #614 WORTHINGTON AIR COMPRESSOR,	8.00	EA	14.82	118.56
KPP	000615733	O-RING	FOR #614 WORTHINGTON AIR COMPRESSOR,	0.00	EA	0.00	0.00
KPP	000615734	RING, RETAINING	FOR #614 WORTHINGTON AIR COMPRESSOR,	4.00	EA	3.85	15.39
KPP	000615735	BOLT, VALVE, WITH NUT & PIN	(UNLOADER BOLT)	2.00	EA	22.47	44.93
KPP	000615880	ELECTRODE, PH, GLASS, BNC	ORION/ROSS	0.00	EA	375.44	0.00
KPP	000615881	ELECTRODE, PH, TRIODE	WITH BNC/DIN CONNECTOR, ATC 3-IN-1	0.00	EA	241.28	0.00
KPP	000615955	INDICATOR, SIGHT FLOW, 3/4" NPT,	BRONZE BODY, DOUBLE WINDOW, FEMALE	2.00	EA	84.63	169.26
KPP	000615956	INDICATOR, SIGHT FLOW, 1" NPT	BRONZE BODY, DOUBLE WINDOW, FEMALE	2.00	EA	0.00	0.00
KPP	000615971	IDLER ROTOR, 1750 RPM, IDP 21	FOR DELAVAL IMO PUMP	2.00	PR	345.27	690.54
KPP	000616367	REAGENT, DPD FREE CHLORINE, FOR 25ML	SAMPLE, REVERSE OSMOSIS UNIT	10.00	PK	21.23	212.29
KPP	000616466	PLATE, PYREX, 4" DIA X 1/4" THICK,	POLISHED, GROUND EDGES, 450-915 DEG.,	8.00	EA	13.00	104.00
KPP	000616467	PLATE, PYREX, 6-1/4" DIA X 3/8" THICK,	POLISHED, GROUND EDGES, 450-915 DEG.,	8.00	EA	67.60	540.80
KPP	000616698	VALVE, GATE	FS 800# SW BB OS&Y, 1/4"	4.00	EA	6.09	24.38
KPP	000616706	VALVE, GLOBE, BRONZE, 150# IPS	SIZE: 1"	4.00	EA	0.00	0.00
KPP	000616714	VALVE, GATE	1-1/4" BRONZE, 150# IPS RS	3.00	EA	0.00	0.00
KPP	000616821	VALVE, GATE	FS 800# SW BB OS&Y, 3/8"	4.00	EA	0.00	0.00
KPP	000616839	ASSEMBLY, MAIN LENS, FOR OPACITY MONITOR	4500MKII	1.00	EA	278.72	278.72
KPP	000616847	CLOTH, LENS, FOR OPACITY MONITOR	4500MKII	1.00	EA	9.36	9.36
KPP	000616854	POWER SUPPLY, FOR OPACITY MONITOR		1.00	EA	290.16	290.16
KPP	000616862	SWITCH, MICRO, ZERO CALIBRATION, FOR	OPACITY MONITOR 4500MKII	1.00	EA	64.48	64.48
KPP	000616870	ASSEMBLY, ZERO CALIBRATION, FOR OPACITY	MONITOR 4500MKII	1.00	EA	1,080.56	1,080.56
KPP	000616888	REFLECTOR, RETRO, FOR OPACITY MONITOR	4500MKII	1.00	EA	250.64	250.64
KPP	000616896	GAUGE, 300 PSI, FOR STEAM TURBINE.		2.00	EA	235.30	470.60
KPP	000616904	CARTRIDGE, FILTER, FOR O2 ANALYZER		9.00	EA	0.00	0.00
KPP	000616912	ASSEMBLY, CELL, ZIRCONIA	SENSOR FOR O2 ANALYZER	2.00	EA	723.91	1,447.82
KPP	000616920	SCREEN, CELL PART	FOR O2 ANALYZER	2.00	EA	107.42	214.83
KPP	000617019	PAINT, TRIPLE A, HYDRAULIC BLACK		0.00	GL	37.08	0.00
KPP	000617050	STRIP, HEATER, 12", 240V		3.00	EA	0.00	0.00
KPP	000617555	REGULATOR, PRESSURE, W/FILTER, 3 TO 100	PSI, ADJUSTING SCREW, INTERNAL RELIEF	3.00	EA	64.68	194.05

NOTE: SOH - Stock on Hand

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Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000618454	LAMP, 100W, METAL HALIDE		4.00	EA	42.10	168.41
KPP	000618629	CONTROLLER, WIZARD TYPE 4194HB, INPUT	0-100 PSID, OUTPUT 3-15 PSIG	1.00	EA	2,283.81	2,283.81
KPP	000618637	UNIT, DIFFERENTIAL PRESSURE, 199 DP	BARTON, 0-100 PSI RANGE.	1.00	EA	2,484.22	2,484.22
KPP	000618702	GASKET, SERRATED STEEL, .086 X 8-1/16" X	8-7/8".	1.00	EA	89.97	89.97
KPP	000618710	GASKET, SERRATED STEEL, .086 X 8-3/8" X	9-1/8".	2.00	EA	87.75	175.49
KPP	000619320	PAINT, HIGH PERFORMANCE EPOXY, NAVY GRAY	2 PART FINISH.	1.00	GL	78.91	78.91
KPP	000619338	PAINT, HIGH PERFORMANCE EPOXY, 2 PART	ACTIVATOR, WATER IMMERSION APPLICATION.	1.00	GL	55.41	55.41
KPP	000619817	SOLUTION, NITRITE INDICATOR, 60 ML		0.00	EA	10.40	0.00
KPP	000619825	SOLUTION, NITRITE, CERIC DROP TEST	2 OZ CAN	1.00	EA	10.41	10.41
KPP	000620799	SEAT, VALVE. FOR K4--498, 499, 612 & 21	WORTHINGTON COMPRESSOR.	8.00	EA	121.28	970.22
KPP	000620807	GUARD, VALVE. FOR K4--498, 499, 612 & 21	WORTHINGTON COMPRESSOR.	8.00	EA	153.66	1,229.28
KPP	000620815	STRIP, VALVE - IN SET. FOR K4--498, 499,	612 7 21 WORTHINGTON COMPRESSOR.	12.00	EA	6.89	82.68
KPP	000620823	BOLT, VALVE, WITH NUT, WASHER & PIN. FOR	K4--498, 499, 612 & 21 WORTHINGTON	6.00	EA	6.94	41.65
KPP	000621011	SEAL, MECHANICAL, INBOARD, 1-7/8",	K1 #137 FEED WATER PUMP.	1.00	EA	1,150.21	1,150.21
KPP	000621029	SEAL, MECHANICAL, OUTBOARD, 1-3/4",	K1 #137 FEED WATER PUMP.	1.00	EA	1,015.56	1,015.56
KPP	000621110	PLATE, REACTION. K1, K2 & K3 CHAIN SOOT	BLOWER.	2.00	EA	307.74	615.48
KPP	000621672	BEARING, SLEEVE, 1-3/4 X 2-3/8 X 7",	NON-METALLIC.	5.00	EA	0.00	0.00
KPP	000621748	INSULATION, KAOWOOL, 2" X 48" X 15',	6# DENSITY.	3.00	RL	453.37	1,360.12
KPP	000622332	CYLINDER, UNLOADER, WITH BUSHING #58 AND	RETAINING RING #75	2.00	EA	588.64	1,177.28
KPP	000622340	VALVE STEM PACKING	FOR 614 WORTHINGTON AIR COMPRESSOR	4.00	EA	10.61	42.43
KPP	000622803	FILTER, (GAS/OIL APPLICATIONS)	FOR MODEL Z021D-L-046-A	1.00	EA	244.78	244.78
KPP	000622837	PACKING SET, (RINGS)	FOR YARWAY SEATLESS BLOW-OFF VALVE	6.00	ST	158.00	947.99
KPP	000623330	LAMP, 100/MED	MAINTENANCE DROP LIGHTS	6.00	EA	18.95	113.68
KPP	000623348	RETAINING RINGS, 5" 150#	(SET OF FOUR 1/2 PIECES) FOR EXPANSION	1.00	ST	76.48	76.48
KPP	000623876	FLINGER, RUBBER	FOR K4 INGERSOL-RAND SERVICE WATER	4.00	EA	13.68	54.70
KPP	000624056	SOCK, ABSORBENT	3" X 42"L	1.00	BX	30.87	30.87
KPP	000624999	MOTOR, 3 HP, 3 0, 460 VAC, RPM 1725	FRAME 182 TDZ	1.00	EA	0.00	0.00
KPP	000625277	SEAL, MECHANICAL, TYPE 8000	1-1/2" 880 ROTARY, 316 ss/CBN/VITON	0.00	EA	194.44	0.00
KPP	000625616	RING, PISTON, 7X7	FOR #612 WORTHINGTON COMPRESSOR	6.00	EA	16.12	96.72
KPP	000625624	PLUG, VALVE, 7X7	FOR #612 WORTHING COMPRESSOR	2.00	EA	84.24	168.48
KPP	000625830	SLEEVE, SHAFT	CCN: 27154582, S/N 1227836, DWG	0.00	EA	1,494.00	0.00
KPP	000625921	MODULE, I/O RELAY	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000625939	MODULE, INTERFACE	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000625947	MODULE, I/O RS232	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000625954	MODULE, KEY PHASOR	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000625962	MODULE, AC PIM 110VAC	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000625970	MODULE, PROX. I/O	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000625988	MODULE, KEY PHASOR	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000625996	MODULE, POWER SUPPLY	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000626002	FUSE, I/L 120	KAHULUI 1 - 2	1.00	EA	0.00	0.00
KPP	000626184	GLAND, SHAFT SLEEVE, CCN: 27193609,	MAT: N0606, PROD: 924, S/N: 1227836	2.00	EA	611.00	1,222.00
KPP	000626192	SLEEVE, SHAFT, CNN: 27193531, MAT: 66	PROD: 924, S/N: 1227836	2.00	EA	878.00	1,756.00
KPP	000626929	GLASS, REFLEX GROOVED	FOR #43 FEEDWATER HEATER	4.00	EA	68.64	274.56
KPP	000626937	GLASS, GAUGE, REDLINE HD WALL	5/8" X 48"	2.00	EA	46.63	93.25
KPP	000626945	GASKET, GRAFOIL	FOR #43 FEEDWATER HEATER	8.00	EA	27.46	219.65
KPP	000627190	VALVE, GATE	FS 800# THRD BB OS&Y, 1-1/2"	1.00	EA	76.07	76.07
KPP	000627794	VALVE, #1	SIZE: 6.5"	1.00	EA	1,666.56	1,666.56
KPP	000627802	SEAT, STEAM CHEST VALVE	FOR VALVES 1 - 2	2.00	EA	1,395.75	2,791.49
KPP	000627810	VALVE, #3	SIZE: 6.812"	1.00	EA	1,775.93	1,775.93
KPP	000627828	SEAT, STEAM CHEST VALVE	FOR VALVES 3 - 4 - 5	3.00	EA	1,406.16	4,218.48
KPP	000627836	VALVE, #7	SIZE: 8"	1.00	EA	1,822.80	1,822.80
KPP	000627844	SEAT, STEAM CHEST VALVE	FOR VALVES 6 - 7	2.00	EA	1,432.20	2,864.40
KPP	000627851	NUT, ADJUSTING	kAHULUI 1 - 2	7.00	EA	245.82	1,720.72
KPP	000627869	NUT, LOCK	kAHULUI 1 - 2	7.00	EA	342.69	2,398.80
KPP	000628651	TRANSMITTER	MICRO MOTION FLOW AND DENSITY	1.00	EA	2,656.08	2,656.08
KPP	000628669	REGULATOR, PRESSURE	10900-535H, 1CS600RF, ROTABLE	1.00	EA	0.00	0.00
KPP	000628750	GEAR, PINION	MODEL K4 43/44	2.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
KAHULUI POWER PLANT

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
KPP	000628776	VALVE, #6	SIZE: 7.750"	1.00	EA	1,822.80	1,822.80
KPP	000628784	VALVE, #2, STEAM CHEST	SIZE: 6.625"	1.00	EA	1,666.56	1,666.56
KPP	000628792	VALVE, #4, STEAM CHEST	SIZE: 7.187"	1.00	EA	1,775.93	1,775.93
KPP	000628800	VALVE, #5, STEAM CHEST	SIZE: 7.375"	1.00	EA	1,775.93	1,775.93
KPP	000628826	BUSHING, UPPER, M-6668567 PT1	DL-006 AUXILLARY LUBE OIL PUMP	1.00	EA	1,257.73	1,257.73
KPP	000628834	WASHER, THRUST, V-2375046	DL-006 AUXILLARY LUBE OIL PUMP	1.00	EA	539.03	539.03
KPP	000628842	BUSHING, LOWER, M-5579736 PT1	DL-006 AUXILLARY LUBE OIL PUMP	1.00	EA	778.60	778.60
KPP	000628859	RING, PACKING, K-6658054	DL-006 AUXILLARY LUBE OIL PUMP	1.00	EA	1,497.30	1,497.30
KPP	000628958	PACKING SET	TYPE: B&C ACID WASH	2.00	EA	67.71	135.41
KPP	000629154	SHAFT OIL SCRAPER RING	FOR 614 WORTHINGTON COMPRESSOR	1.00	EA	0.00	0.00
KPP	000630285	BEARING, INTERMEDIATE, MATERIAL SAE 660	K 3 CONDENSATE PUMP	8.00	EA	130.00	1,040.00
KPP	000630293	O-RING, .275" X - SECT X 16-1/4"	ID MATERIAL BUNA N	2.00	EA	31.20	62.40
KPP	000630301	BEARING, LOWER, MATERIAL SAE 660	K 3, CONDENSATE PUMP	2.00	EA	158.60	317.20
KPP	000630533	GLAND, SPLIT	721, 722 WASTE WATER PUMP	2.00	EA	0.00	0.00
KPP	000630541	RING, LANTERN	721, 722 WASTE WATER PUMP	1.00	EA	0.00	0.00
KPP	000631150	MOTOR, 1/6 HP, 1 PH, 60 HZ, TENV, 115V	FOR K4 AIR HEATER BLOWER, GEAR REDUCER	1.00	EA	384.78	384.78
KPP	000631473	PIPE, BLACK, 6", A106B SCH 80 SMLS SRL	MATERIAL TEST REPORT REQUIRED	21.00	FT	37.84	794.64
KPP	000632794	TRAP, STEAM, 1" SS	WITH BLOWN DOWN VALVE, THREADED	1.00	EA	603.25	603.25
KPP	000632935	PIPE, BLACK, 3/4", PE A 106B SMLS	MATERIAL TEST REPORT REQUIRED	19.00	FT	7.39	140.50
KPP	000634147	TRAP, STEAM, 1/2"	WITH BLOWDOWN VALVE	2.00	EA	551.26	1,102.51
KPP	000634600	KIT, REPAIR, STEAM TRAP	MODEL: 710/720A	7.00	EA	131.95	923.65
KPP	000634741	ATOMIZER, BODY	RF4L PATTERN 156547CA	4.00	EA	787.38	3,149.50
KPP	000634758	MONITOR, GLI, CONDUCTIVITY	ANALYZER UNIT, NEMA 4 X 1/2 DIN	1.00	EA	927.02	927.02
KPP	000634766	GLI 3422A2A COMPRESSION FITTING STYLE	CONTACTING CONDUCTIVITY SENSOR, 0.05	1.00	EA	458.30	458.30
KPP	000634774	GLI 3422C4A COMPRESSION FITTING STYLE	CONTACTING CONDUCTIVITY SENSOR	1.00	EA	484.34	484.34
KPP	000634840	GAUGE, PRESSURE PLUS	30"HG-0, 2-1/2" DIAL, 1/4" NPT LOWER	3.00	EA	56.45	169.36
KPP	000634857	SWIRLER, CLOCK WISE	KAHULUI 4	0.00	EA	0.00	0.00
KPP	000635284	BEARING, MAIN JOURNAL, REBABBITTED	TURBINE #3 POSITION	0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Attachment 3 is voluminous and available for inspection at HECO's Regulatory Affairs Division office, Suite 1301, Central Pacific Plaza, 220 South King Street, Honolulu, Hawaii. Please contact Dean Matsuura at 543-4622 to make arrangements to inspect the requested information. An electronic version the requested information is being provided on a compact disc.

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
LANAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
LAPP	000435586	SEAL	LINER, LOWER GROOVE	0.00	EA	0.00	0.00
LAPP	000435784	PIN	CAM FOLLOWER	0.00	EA	2.05	0.00
LAPP	000436204	RING	SEAT, CYLINDER HEAD	11.00	EA	21.46	236.06
LAPP	000436402	NUT	HEAD TO LINER, 3/4-16 HEX	0.00	EA	1.27	0.00
LAPP	000437145	WASHER	THRUST CARRIER	0.00	EA	17.62	0.00
LAPP	000437285	BEARING	INSERT - CARRIER	0.00	EA	149.92	0.00
LAPP	000437368	BEARING	UPPER - CONNECTING ROD	0.00	EA	295.54	0.00
LAPP	000437723	BRACKET ASM	STARTER MOTOR	0.00	EA	1,073.37	0.00
LAPP	000437749	BOLT	SHOULDER 3/4-16 X 2-7/8 HEX HD	0.00	EA	24.05	0.00
LAPP	000437764	WASHER	PLAIN - 3/4	0.00	EA	0.34	0.00
LAPP	000437780	BOLT	HEX HD, 5/8-18 X 1-3/4	0.00	EA	0.89	0.00
LAPP	000437806	WASHER	LOCK - 5/8	0.00	EA	0.19	0.00
LAPP	000437822	WASHER	HARDENED, 5/8	0.00	EA	0.71	0.00
LAPP	000437848	MOTOR ASM	AIR STARTER, 64 VOLTS	4.00	EA	1,385.74	5,542.96
LAPP	000437905	CONTACTOR	STARTING, ST	0.00	EA	1,102.93	0.00
LAPP	000437921	BOLT	BRACKET TO MOTOR 5/8-18 X 2-1/2 HEX HD	0.00	EA	0.88	0.00
LAPP	000437962	NUT	LOCK, 5/8-18 HEX	0.00	EA	0.40	0.00
LAPP	000438002	INDICATOR	FLYWHEEL	0.00	EA	153.05	0.00
LAPP	000438044	BOLT	INDICATOR MTG 1/4-20 X 5/8 HEX HD	0.00	EA	0.06	0.00
LAPP	000438085	WASHER	LOCK - 1/4	0.00	EA	0.13	0.00
LAPP	000438143	CONTACTOR	STARTING, STZ	0.00	EA	1,030.90	0.00
LAPP	000438226	RESISTOR	.560 OHMS	0.00	EA	289.96	0.00
LAPP	000438242	BRACKET	RESISTOR MOUNTING	0.00	EA	20.62	0.00
LAPP	000440727	FILTER	FUEL - SPIN ON	12.00	EA	6.74	80.84
LAPP	000441766	GASKET KIT	AFTERCOOLER	0.00	EA	13.24	0.00
LAPP	000441840	GASKET KIT	GOV DRIVE	0.00	EA	10.50	0.00
LAPP	000442160	GASKET KIT	LUBE OIL SUCTION STRAINER	8.00	EA	21.27	170.18
LAPP	000443325	ELEMENT	FILTER 6-1/2 IN, MAIN L.O.	8.00	EA	21.62	172.97
LAPP	000445247	HOLDER ASSY	BRUSH	6.00	EA	237.93	1,427.59
LAPP	000496406	BELT	FAN	6.00	EA	0.00	0.00
LAPP	000560862	DIODE	ELECTRICAL	0.00	EA	56.72	0.00
LAPP	000560961	FILTER	COOLING WATER, (4 PER)	0.00	EA	16.90	0.00
LAPP	000561001	POWER PACK	FORK REBUILT	0.00	EA	2,935.86	0.00
LAPP	000561027	POWER PACK	BLADE	0.00	EA	2,649.86	0.00
LAPP	000561043	BEARING	UPPER	0.00	EA	218.93	0.00
LAPP	000561068	BEARING	LOWER	0.00	EA	135.20	0.00
LAPP	000561084	KIT	MAIN BEARING	0.00	EA	988.38	0.00
LAPP	000561100	FILTER	OIL	6.00	EA	3.78	22.70
LAPP	000561126	CARTRIDGE	L.O. FILTER	20.00	EA	26.71	534.12
LAPP	000561142	GASKET	COVER ASSY	10.00	EA	0.69	6.86
LAPP	000561167	GASKET	SEAL (L.O.)	5.00	EA	2.05	10.27
LAPP	000561183	ELEMENT	LINER PAPER	165.00	EA	3.00	495.00
LAPP	000561209	FILTER	F.O. PRIMARY	101.00	EA	4.43	446.94
LAPP	000561266	GASKET	HAND WHEEL, NYLON	52.00	EA	0.31	16.12

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
LANAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
LAPP	000561282	GASKET	HAND WHEEL	47.00	EA	0.29	13.63
LAPP	000561308	GASKET	HANDHOLE COVER	74.00	EA	0.16	11.84
LAPP	000561324	GASKET	HANDHOLE COVER, BUNA N	75.00	EA	3.54	265.50
LAPP	000561340	SEGMENT	CAMSHAFT LONG	0.00	EA	1,573.04	0.00
LAPP	000561365	SEAL	RUBBER	38.00	EA	1.28	48.61
LAPP	000561407	PUMP COMPLETE	WATER	1.00	EA	1,862.26	1,862.26
LAPP	000561423	INJECTOR	FUEL	23.00	EA	137.16	3,154.63
LAPP	000561449	ASSY	LATCH	0.00	EA	2.24	0.00
LAPP	000561464	GASKET	SEAL COVER	24.00	EA	25.44	610.56
LAPP	000561480	TUBE	OIL LINE	3.00	EA	157.30	471.90
LAPP	000561522	NUT	RADIATOR COOLING FAN	0.00	EA	0.12	0.00
LAPP	000561548	WASHER	RADIATOR COOLING FAN	0.00	EA	0.02	0.00
LAPP	000561563	BOLT	RADIATOR COOLING FAN	0.00	EA	0.57	0.00
LAPP	000561589	BOLT	RADIATOR COOLING FAN	0.00	EA	0.19	0.00
LAPP	000561605	HEADER	RADIATOR COOLING FAN	0.00	EA	1,805.21	0.00
LAPP	000561621	PLATE	RADIATOR COOLING FAN	0.00	EA	45.22	0.00
LAPP	000561647	PLATE	RADIATOR COOLING FAN	0.00	EA	9.59	0.00
LAPP	000561662	HEADER	RADIATOR COOLING FAN	0.00	EA	0.00	0.00
LAPP	000561688	SCREEN	RADIATOR COOLING FAN	2.00	EA	46.44	92.88
LAPP	000561704	GASKET	RADIATOR COOLING FAN	4.00	EA	22.92	91.68
LAPP	000561720	HEADER	RADIATOR COOLING FAN	0.00	EA	330.45	0.00
LAPP	000561746	HEADER	RADIATOR COOLING FAN	0.00	EA	399.76	0.00
LAPP	000561761	HEADER	RADIATOR COOLING FAN	0.00	EA	364.60	0.00
LAPP	000561787	DISC	RADIATOR COOLING FAN	6.00	EA	623.42	3,740.50
LAPP	000561803	RING	RADIATOR COOLING FAN	3.00	EA	63.29	189.87
LAPP	000561829	BOLT	RADIATOR COOLING FAN	0.00	EA	0.45	0.00
LAPP	000561845	BEARING	RADIATOR COOLING FAN	0.00	EA	94.11	0.00
LAPP	000561860	BEARING	RADIATOR COOLING FAN	0.00	EA	247.96	0.00
LAPP	000561886	BEARING	RADIATOR COOLING FAN	0.00	EA	172.47	0.00
LAPP	000561928	COUPLING	RADIATOR COOLING FAN	1.00	EA	964.73	964.73
LAPP	000561944	BRUSH	FLAT	20.00	EA	7.05	141.02
LAPP	000561969	BRUSH	EXCITER	8.00	EA	6.43	51.42
LAPP	000561985	SWITCH	ISOLATION (ENG. CONTROL CABINET)	6.00	EA	79.91	479.43
LAPP	000562041	CHARGER	BATTERY	0.00	EA	2,053.67	0.00
LAPP	000562066	SUPPRESSOR	SURGE	0.00	EA	86.58	0.00
LAPP	000562082	DIODE	STANDARD	0.00	EA	28.08	0.00
LAPP	000562108	DIODE	REVERSE	0.00	EA	28.08	0.00
LAPP	000562124	SHEAVE	GATE	0.00	EA	76.73	0.00
LAPP	000562140	BUSHING	GATE	0.00	EA	18.97	0.00
LAPP	000562181	GASKET	AIR	23.00	EA	1.35	31.05
LAPP	000562207	SPRING	AIR	19.00	EA	2.55	48.45
LAPP	000562223	VALVE	AIR	16.00	EA	7.59	121.44
LAPP	000562249	GASKET	AIR	20.00	EA	0.99	19.80
LAPP	000562264	SEAT	AIR	7.00	EA	34.09	238.63

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
LANAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
LAPP	000562280	SEAT	AIR	3.00	EA	0.00	0.00
LAPP	000562306	STUD	AIR	7.00	EA	0.99	6.93
LAPP	000562322	BUMPER	AIR	4.00	EA	1.35	5.40
LAPP	000562348	GASKET	AIR	7.00	EA	2.40	16.80
LAPP	000562363	PLATFORM	AIR	4.00	EA	0.94	3.76
LAPP	000562389	PIN	AIR	24.00	EA	1.20	28.80
LAPP	000562405	SPRING	AIR	24.00	EA	0.88	21.12
LAPP	000562421	PISTON	AIR	2.00	EA	5.62	11.24
LAPP	000562447	ORING	AIR	2.00	EA	1.20	2.40
LAPP	000562462	GASKET SET	AIR	6.00	EA	20.31	121.86
LAPP	000562488	INSERT	AIR	4.00	EA	6.77	27.08
LAPP	000562504	AIR FILTER ELEMENT	QUINCY AIR COMPRESSOR, MODEL QR3408B7	5.00	EA	20.80	104.00
LAPP	000562520	AIR FILTER ELEMENT	QUINCY AIR COMPRESSOR	17.00	EA	16.71	284.14
LAPP	000562546	FILTER, LUBE OIL	QUINCY AIR COMPRESSOR MODEL QR3408B7	12.00	PK	18.61	223.32
LAPP	000562561	OIL QUIN-CIP RECIPROCATING	QUINCY AIR COMPRESSOR, MODEL QR3408B7	5.00	EA	14.05	70.27
LAPP	000562587	BEARING	MAIN	8.00	EA	0.00	0.00
LAPP	000562603	SEAL	ORING	15.00	EA	0.00	0.00
LAPP	000562629	GASKET	COVER	5.00	EA	0.00	0.00
LAPP	000562645	GASKET	COVER	8.00	EA	0.00	0.00
LAPP	000562660	SEAL	ORING	4.00	EA	1.03	4.10
LAPP	000562686	SEAL	ORING	1.00	EA	0.00	0.00
LAPP	000562702	SEAL	ORING	14.00	EA	8.89	124.52
LAPP	000562728	SEAL	ORING	4.00	EA	0.00	0.00
LAPP	000562744	SCREW	CAP	28.00	EA	0.00	0.00
LAPP	000562769	WASHER	VLV	40.00	EA	0.00	0.00
LAPP	000562785	SEAL	ORING	8.00	EA	0.00	0.00
LAPP	000562801	GASKET	CYL HD	0.00	EA	0.00	0.00
LAPP	000562827	SEAL	ORING	4.00	EA	0.00	0.00
LAPP	000562843	RING	PISTON	8.00	EA	0.00	0.00
LAPP	000562868	RING	PISTON	8.00	EA	0.00	0.00
LAPP	000562884	RING	PISTON	8.00	EA	0.00	0.00
LAPP	000562900	RING	PISTON	8.00	EA	0.00	0.00
LAPP	000562926	BEARING	CONN ROD	8.00	EA	0.00	0.00
LAPP	000562942	SEAL	ORING	6.00	EA	0.00	0.00
LAPP	000562967	ARM ASSY	ROCKER	7.00	EA	315.32	2,207.23
LAPP	000562983	INSERT	ROCKER	6.00	EA	0.00	0.00
LAPP	000563007	BUTTON	ROCKER	2.00	EA	0.00	0.00
LAPP	000563023	SCREW	ADJ	4.00	EA	0.00	0.00
LAPP	000563049	VALVE	ACCESS	2.00	EA	0.00	0.00
LAPP	000563064	PUSH ROD	VALVE & INJ	3.00	EA	60.95	182.84
LAPP	000563080	BRIDGE ASSY	VLV	4.00	EA	45.89	183.57
LAPP	000563106	FILTER	LUBE OIL	48.00	EA	27.78	1,333.22
LAPP	000563122	SEAL	ORING	23.00	EA	21.24	488.52
LAPP	000563148	LINER	ROTOR	165.00	EA	4.75	783.82

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
LANAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
LAPP	000563163	HOSE	BREATHER	1.00	EA	0.00	0.00
LAPP	000563189	HOSE ASSY	13.2 INCHES	0.00	EA	0.00	0.00
LAPP	000563205	SEAL	ORING	4.00	EA	18.91	75.62
LAPP	000563221	CLAMP	COVER	2.00	EA	0.00	0.00
LAPP	000563247	SEAL	ORING	12.00	EA	15.75	188.98
LAPP	000563262	SEAL	ORING	0.00	EA	0.00	0.00
LAPP	000563288	SEAL	ORING	3.00	EA	0.00	0.00
LAPP	000563304	SEAL	ORING	2.00	EA	4.80	9.61
LAPP	000563320	SEAL	ORING	0.00	EA	10.00	0.00
LAPP	000563346	GASKET	OIL COOLER	2.00	EA	0.00	0.00
LAPP	000563361	REGULATOR	TEMPERATURE	4.00	EA	0.00	0.00
LAPP	000563387	SEAL	LIP	5.00	EA	0.00	0.00
LAPP	000563403	SEAL	GP-FACE	0.00	EA	0.00	0.00
LAPP	000563429	SEAL	LIP	0.00	EA	0.00	0.00
LAPP	000563445	SEAL	ORING	2.00	EA	0.00	0.00
LAPP	000563460	SEAL	ORING	2.00	EA	8.68	17.36
LAPP	000563486	FILTER	AMER KLEEN 2500	12.00	EA	39.02	468.29
LAPP	000563486	FILTER	AMER KLEEN 2500	12.00	EA	39.02	468.29
LAPP	000563502	GASKET	EXH	14.00	EA	0.00	0.00
LAPP	000563528	GASKET	EXH	7.00	EA	0.00	0.00
LAPP	000563544	CARTRIDGE	FILTER	0.00	EA	9.53	0.00
LAPP	000563569	CARTRIDGE	FILTER	0.00	EA	14.71	0.00
LAPP	000563585	FILTER	FUEL	176.00	EA	30.31	5,333.68
LAPP	000563601	SEAL	ORING	1.00	EA	14.30	14.30
LAPP	000563627	SEAL	ORING	4.00	EA	12.94	51.75
LAPP	000563630	MOTOR	AIR STARTING	0.00	EA	3,533.66	0.00
LAPP	000563643	SWITCH ASSY	PRELUBE PRESS.	1.00	EA	0.00	0.00
LAPP	000563668	GASKET KIT	MOTOR	1.00	EA	13.21	13.21
LAPP	000563680	PUMP, PRELUBE	LUBRICATION SYSTEM	0.00	EA	1,469.11	0.00
LAPP	000563684	CONNECTOR	ELECTRONIC	1.00	EA	0.00	0.00
LAPP	000563700	PICKUP ASSY	MAGNETIC	2.00	EA	0.00	0.00
LAPP	000563726	THERMOCOUPLE	61-0407	4.00	EA	0.00	0.00
LAPP	000563742	LEAD ASSY	THERMOCOUPLE	3.00	EA	0.00	0.00
LAPP	000563767	COMPOUND	THRML	0.00	EA	0.00	0.00
LAPP	000563783	DETECTOR	GP - LIQUID	1.00	EA	533.02	533.02
LAPP	000563809	REGULATOR	VOLTAGE	1.00	EA	0.00	0.00
LAPP	000563825	POTENTIOMETER	SURGE, 420VAC, 40J SURGE SUPPRESSOR	2.00	EA	33.28	66.56
LAPP	000563841	RECTIFIER	BRIDGE ASSY	0.00	EA	18.30	0.00
LAPP	000563866	DIODE	RVS, 125 AMP, 1200V	3.00	EA	52.00	156.00
LAPP	000563882	DIODE	STD, 125 AMP, 1200V	3.00	EA	52.00	156.00
LAPP	000563908	CAPACITOR	15M, 10%, 330 VAC MP	8.00	EA	12.48	99.84
LAPP	000563924	FILTER	ULTIPOR 111	18.00	EA	201.24	3,622.39
LAPP	000563940	FILTER	ULTIPOR (6 per)	9.00	EA	357.97	3,221.77
LAPP	000563965	ELEMENT ASSY.	FILTER	23.00	EA	176.19	4,052.45

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
LANAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
LAPP	000563981	SCREEN	AIR FILTER	8.00	EA	214.84	1,718.72
LAPP	000564005	SCREEN	AIR FILTER	1.00	EA	237.50	237.50
LAPP	000565648	CARTRIDGE	TURBOCHARGER	0.00	EA	0.00	0.00
LAPP	000565663	CARTRIDGE	TURBOCHARGER	0.00	EA	39,580.80	0.00
LAPP	000566620	POTENTIOMETER	MOTOR OPERATED	0.00	EA	576.48	0.00
LAPP	000566646	POTENTIOMETER	MOTOR OPERATED	0.00	EA	576.48	0.00
LAPP	000615807	ASSEMBLY, INJECTOR	FOR CATERPILLAR 3608, 8 CYLINDER	5.00	EA	2,126.93	10,634.64
LAPP	000629295	ACTUATOR, UG-A	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	3,437.28	3,437.28
LAPP	000629303	CONTROL, SPEED, 2301D	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	1,484.28	1,484.28
LAPP	000629311	PICK UP, MAGNETIC	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	156.24	156.24
LAPP	000629352	SWITCH, VACUUM, ENGINE	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	270.39	270.39
LAPP	000629360	SWITCH, LUBE OIL, ENGINE	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	269.71	269.71
LAPP	000629378	SWITCH, TEMPERATURE, ENGINE	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	293.81	293.81
LAPP	000629386	CONTACTOR, DC, 125VDC COIL, NC	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	156.24	156.24
LAPP	000629394	CONTACTOR, DC, 125VDC COIL, NC	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	156.24	156.24
LAPP	000629402	CARD, ANALOG, INPUT	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	82.16	82.16
LAPP	000629410	METER, CROMPTON INTEGRA 1560	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	724.95	724.95
LAPP	000629428	MODULE, INRUSH CURRENT REDUCTION	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	351.54	351.54
LAPP	000629436	RELAY, 24VDC COIL, 125V DC CONTACTS	LANAI 1 - 2 - 3 - 4 - 5 - 6	5.00	EA	37.50	187.49
LAPP	000629444	RELAY, PLC-RSC-24DC/21, 24VDC SPDT	LANAI 1 - 2 - 3 - 4 - 5 - 6	2.00	EA	28.60	57.20
LAPP	000629451	RELAY, PLC-RSC-24DC/21, 24VDC SPDT	LANAI 1 - 2 - 3 - 4 - 5 - 6	2.00	EA	17.56	35.12
LAPP	000629469	FUSE, 10A	LANAI 1 - 2 - 3 - 4 - 5 - 6	10.00	EA	21.42	214.15
LAPP	000629477	FUSE, 5A	LANAI 1 - 2 - 3 - 4 - 5 - 6	10.00	EA	21.42	214.15
LAPP	000629485	FIBER, TO RS232/485 CONVERTER	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	374.90	374.90
LAPP	000629493	VICOR, DC-DC CONVERTER	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	207.80	207.80
LAPP	000629501	POTENTIOMETER, MOTOR OPERATED	FOR AVR, 115VAC	1.00	EA	391.00	391.00
LAPP	000629519	REGULATOR, VOLTAGE, AUTOMATIC	LANAI 1 - 2 - 3 - 4 - 5 - 6	0.00	EA	988.00	0.00
LAPP	000629527	CARD, DL-06 10 DC OUPUT PLC	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	54.08	54.08
LAPP	000629535	DISPLAY, DL-06 PLC	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	75.92	75.92
LAPP	000629543	CONTROLLER, PROGRAM, LOGIC, DL-06	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	206.96	206.96
LAPP	000629550	SYNCHRONIZER, SPM-D	LANAI 1 - 2 - 3 - 4 - 5 - 6	1.00	EA	1,124.93	1,124.93

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
MOLOKAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
MOPP	000488841	ELEMENT	RACOR	30.00	EA	10.48	314.37
MOPP	000560904	FILTER	FUEL, (2 PER)	30.00	EA	17.60	527.93
MOPP	000560920	FILTER	LUBE OIL, (5 PER)	59.00	EA	19.28	1,137.54
MOPP	000560921	FILTER, SECONDARY AIR	CUMMINS, KTA50, FLEETGUARD	2.00	EA	89.79	179.57
MOPP	000560922	FILTER, PRIMARY AIR	CUMMINS, KTA50, FLEETGUARD	4.00	EA	54.97	219.87
MOPP	000560946	FILTER	L.O. BY-PASS, (2 PER)	40.00	EA	16.41	656.34
MOPP	000560961	FILTER	COOLING WATER, (4 PER)	34.00	EA	16.90	574.71
MOPP	000561100	FILTER	OIL	0.00	EA	3.78	0.00
MOPP	000562587	BEARING	MAIN	0.00	EA	0.00	0.00
MOPP	000562603	SEAL	ORING	8.00	EA	0.00	0.00
MOPP	000562629	GASKET	COVER	8.00	EA	0.00	0.00
MOPP	000562645	GASKET	COVER	5.00	EA	0.00	0.00
MOPP	000562660	SEAL	ORING	2.00	EA	1.03	2.05
MOPP	000562686	SEAL	ORING	15.00	EA	0.00	0.00
MOPP	000562702	SEAL	ORING	7.00	EA	8.89	62.26
MOPP	000562728	SEAL	ORING	8.00	EA	0.00	0.00
MOPP	000562744	SCREW	CAP	28.00	EA	0.00	0.00
MOPP	000562769	WASHER	VLV	44.00	EA	0.00	0.00
MOPP	000562785	SEAL	ORING	12.00	EA	0.00	0.00
MOPP	000562801	GASKET	CYL HD	1.00	EA	0.00	0.00
MOPP	000562827	SEAL	ORING	4.00	EA	0.00	0.00
MOPP	000562843	RING	PISTON	8.00	EA	0.00	0.00
MOPP	000562868	RING	PISTON	8.00	EA	0.00	0.00
MOPP	000562884	RING	PISTON	8.00	EA	0.00	0.00
MOPP	000562900	RING	PISTON	8.00	EA	0.00	0.00
MOPP	000562926	BEARING	CONN ROD	8.00	EA	0.00	0.00
MOPP	000562942	SEAL	ORING	6.00	EA	0.00	0.00
MOPP	000562967	ARM ASSY	ROCKER	0.00	EA	315.32	0.00
MOPP	000562983	INSERT	ROCKER	6.00	EA	0.00	0.00
MOPP	000563007	BUTTON	ROCKER	6.00	EA	0.00	0.00
MOPP	000563023	SCREW	ADJ	0.00	EA	0.00	0.00
MOPP	000563049	VALVE	ACCESS	3.00	EA	0.00	0.00
MOPP	000563064	PUSH ROD	VALVE & INJ	2.00	EA	60.95	121.90
MOPP	000563080	BRIDGE ASSY	VLV	2.00	EA	45.89	91.79
MOPP	000563106	FILTER	LUBE OIL	12.00	EA	27.78	333.30
MOPP	000563122	SEAL	ORING	0.00	EA	21.24	0.00
MOPP	000563148	LINER	ROTOR	93.00	EA	4.75	441.79
MOPP	000563163	HOSE	BREATHER	1.00	EA	0.00	0.00
MOPP	000563189	HOSE ASSY	13.2 INCHES	1.00	EA	0.00	0.00
MOPP	000563205	SEAL	ORING	14.00	EA	18.91	264.67
MOPP	000563221	CLAMP	COVER	5.00	EA	0.00	0.00
MOPP	000563247	SEAL	ORING	14.00	EA	15.75	220.48
MOPP	000563262	SEAL	ORING	0.00	EA	0.00	0.00
MOPP	000563288	SEAL	ORING	4.00	EA	0.00	0.00
MOPP	000563304	SEAL	ORING	0.00	EA	4.80	0.00
MOPP	000563320	SEAL	ORING	2.00	EA	10.00	20.00
MOPP	000563346	GASKET	OIL COOLER	1.00	EA	0.00	0.00
MOPP	000563361	REGULATOR	TEMPERATURE	4.00	EA	0.00	0.00
MOPP	000563387	SEAL	LIP	1.00	EA	0.00	0.00
MOPP	000563403	SEAL	GP-FACE	1.00	EA	0.00	0.00
MOPP	000563429	SEAL	LIP	1.00	EA	0.00	0.00
MOPP	000563445	SEAL	ORING	1.00	EA	0.00	0.00
MOPP	000563460	SEAL	ORING	1.00	EA	8.68	8.68
MOPP	000563486	FILTER	AMER KLEEN 2500	24.00	EA	39.02	936.58
MOPP	000563502	GASKET	EXH	14.00	EA	0.00	0.00
MOPP	000563528	GASKET	EXH	8.00	EA	0.00	0.00
MOPP	000563544	CARTRIDGE	FILTER	0.00	EA	9.53	0.00
MOPP	000563569	CARTRIDGE	FILTER	0.00	EA	14.71	0.00
MOPP	000563585	FILTER	FUEL	56.00	EA	30.31	1,697.08
MOPP	000563601	SEAL	ORING	8.00	EA	14.30	114.38
MOPP	000563627	SEAL	ORING	16.00	EA	12.94	206.99
MOPP	000563630	MOTOR	AIR STARTING	1.00	EA	3,533.66	3,533.66
MOPP	000563643	SWITCH ASSY	PRELUBE PRESS.	0.00	EA	0.00	0.00
MOPP	000563668	GASKET KIT	MOTOR	4.00	EA	13.21	52.82
MOPP	000563680	PUMP, PRELUBE	LUBRICATION SYSTEM	1.00	EA	1,469.11	1,469.11
MOPP	000563684	CONNECTOR	ELECTRONIC	0.00	EA	0.00	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
MOLOKAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
MOPP	000563700	PICKUP ASSY	MAGNETIC	0.00	EA	0.00	0.00
MOPP	000563726	THERMOCOUPLE	61-0407	2.00	EA	0.00	0.00
MOPP	000563742	LEAD ASSY	THERMOCOUPLE	3.00	EA	0.00	0.00
MOPP	000563767	COMPOUND	THRML	2.00	EA	0.00	0.00
MOPP	000563783	DETECTOR	GP - LIQUID	0.00	EA	533.02	0.00
MOPP	000563809	REGULATOR	VOLTAGE	1.00	EA	0.00	0.00
MOPP	000563825	POTENTIOMETER	SURGE, 420VAC, 40J SURGE SUPPRESSOR	1.00	EA	33.28	33.28
MOPP	000563841	RECTIFIER	BRIDGE ASSY	1.00	EA	18.30	18.30
MOPP	000563866	DIODE	RVS, 125 AMP, 1200V	3.00	EA	52.00	156.00
MOPP	000563882	DIODE	STD, 125 AMP, 1200V	3.00	EA	52.00	156.00
MOPP	000563908	CAPACITOR	15M, 10%, 330 VAC MP	2.00	EA	12.48	24.96
MOPP	000563924	FILTER	ULTIPOR 111	40.00	EA	201.24	8,049.75
MOPP	000563940	FILTER	ULTIPOR (6 per)	9.00	EA	357.97	3,221.77
MOPP	000563965	ELEMENT ASSY.	FILTER	0.00	EA	176.19	0.00
MOPP	000563981	SCREEN	AIR FILTER	8.00	EA	214.84	1,718.72
MOPP	000564005	SCREEN	AIR FILTER	1.00	EA	237.50	237.50
MOPP	000564021	O-RING, SEAL, COVER	MOLOKAI	0.00	EA	0.00	0.00
MOPP	000564047	HOSE, TEE, BREATHER		0.00	EA	0.00	0.00
MOPP	000564062	O-RING, SEAL AFTER COOLER	MOLOKAI	0.00	EA	0.00	0.00
MOPP	000564088	GASKET	OIL COOLER	0.00	EA	0.00	0.00
MOPP	000564104	GASKET	EXHAUST MANIFOLD	0.00	EA	0.00	0.00
MOPP	000564120	GASKET	EXHAUST MANIFOLD	0.00	EA	0.00	0.00
MOPP	000564146	GASKET KIT	MOTOR	0.00	EA	0.00	0.00
MOPP	000564161	ORING	SEAL	0.00	EA	0.00	0.00
MOPP	000564187	4564203	125 AMP, 1200V	0.00	EA	0.00	0.00
MOPP	000564203	ORING	SEAL	0.00	EA	0.00	0.00
MOPP	000564229	DIODE	125 AMP, 1200V	0.00	EA	0.00	0.00
MOPP	000564245	RECTIFIER	BRIDGE ASSY	0.00	EA	0.00	0.00
MOPP	000564260	CAP	CAPACITOR	0.00	EA	0.00	0.00
MOPP	000564286	KIT- REPAIR MOTOR	1W4776 - PUMP GP - AIR PRELUBE	4.00	EA	279.16	1,116.65
MOPP	000564302	HOSE	1W0800 BREATHER GP	1.00	EA	0.00	0.00
MOPP	000564328	HOSE ASSY	13.2 INCHES	0.00	EA	0.00	0.00
MOPP	000564344	BEARING, CONN ROD, STD	PISTON & ROD GP - 13:1 RATIO	0.00	EA	0.00	0.00
MOPP	000564369	REGULATOR, TEMPERATURE	LINES-GP OIL COOLER	0.00	EA	0.00	0.00
MOPP	000564385	ROCKER ARM ASSY	BASIC ENGINE	0.00	EA	0.00	0.00
MOPP	000564401	SEAL - LIP	COOLING SYSTEM	0.00	EA	0.00	0.00
MOPP	000564427	INSERT - ROCKER ARM	ROCKER ARM GP	0.00	EA	0.00	0.00
MOPP	000564443	SEAL GP - FACE	PUMP GP - WATER	0.00	EA	0.00	0.00
MOPP	000564468	VALVE - ACCESS	VALVE GP - MANUAL	0.00	EA	0.00	0.00
MOPP	000564484	SEAL	WATER PUMP	0.00	EA	0.00	0.00
MOPP	000564500	PUSHROD	VALVE & INJECTION	0.00	EA	0.00	0.00
MOPP	000564526	SEAL O RING - WATER PUMP	COOLING SYSTEM	0.00	EA	0.00	0.00
MOPP	000564542	BRIDGE ASSY	VALVE MECHANISM GP	0.00	EA	0.00	0.00
MOPP	000564567	SEAL-O-RING	COOLING SYSTEM	0.00	EA	0.00	0.00
MOPP	000564583	LEAD ASSY	THERMOCOUPLE	0.00	EA	0.00	0.00
MOPP	000564609	CONNECTOR	SENSOR GP - ELECTRONIC	0.00	EA	0.00	0.00
MOPP	000564625	THERMOCOUPLE	ELECTRICAL SYSTEM	0.00	EA	0.00	0.00
MOPP	000564641	DETECTOR GP - LIQUID	OPERATOR STATION	0.00	EA	0.00	0.00
MOPP	000564666	COMPOUND	OPERATION STATION	0.00	EA	0.00	0.00
MOPP	000564682	POTENTIOMETER, SURGE PROTECTOR	420 VAC, 40J SURGE SUPPRESSOR	0.00	EA	0.00	0.00
MOPP	000564708	CLAMP, COVER	FILTER GP - CENTRIFUGAL	0.00	EA	65.62	0.00
MOPP	000564724	REGULATOR, VOLTAGE - KATO	VR760WF3P58HUFS240V60HP	0.00	EA	0.00	0.00
MOPP	000564740	ORING	SEAL	5.00	EA	5.12	25.60
MOPP	000564765	BEARING	DODGE E	2.00	EA	329.33	658.66
MOPP	000564781	KIT, SOLENOID	FOR GUILLOTINE SAFETY EMERGENCY SHUTDOWN	3.00	EA	171.86	515.59
MOPP	000564807	LINER	KIT	2.00	EA	120.75	241.50
MOPP	000564823	SHAFT, IDLER	MOLOKAI	2.00	EA	35.54	71.08
MOPP	000564849	SHAFT, IDLER	MOLOKAI	1.00	EA	68.48	68.48
MOPP	000564864	INSERT, LINER		4.00	EA	24.00	96.00
MOPP	000564880	INSERT, LINER		5.00	EA	10.66	53.30
MOPP	000564906	INSERT, LINER		7.00	EA	14.80	103.60
MOPP	000564922	GASKET	FILTER HEAD	10.00	EA	3.30	33.00
MOPP	000564948	SHAFT	IDLER	2.00	EA	22.83	45.66
MOPP	000564963	SHAFT	IDLER	1.00	EA	74.70	74.70

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
MOLOKAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
MOPP	000564989	SHAFT	IDLER	2.00	EA	63.94	127.88
MOPP	000565002	BEARING	CONNECTING ROD	32.00	EA	20.14	644.48
MOPP	000565028	SET, PISTON RING		9.00	EA	41.95	377.55
MOPP	000565044	GEAR	CAMSHAFT	1.00	EA	561.00	561.00
MOPP	000565069	GEAR	IDLER	3.00	EA	419.52	1,258.56
MOPP	000565085	GEAR	CAMSHAFT	2.00	EA	583.44	1,166.88
MOPP	000565101	GEAR	IDLER	2.00	EA	409.17	818.34
MOPP	000565127	BUSHING	MOLOKAI	1.00	EA	59.37	59.37
MOPP	000565143	GASKET	GEAR HOUSING	1.00	EA	22.39	22.39
MOPP	000565168	SLEEVE	WEAR	1.00	EA	45.07	45.07
MOPP	000565184	VALVE	CROSSHEAD	16.00	EA	26.07	417.12
MOPP	000565200	BEARING	MAIN, SET	1.00	EA	1,139.03	1,139.03
MOPP	000565226	HEAD	REBUILT	1.00	EA	625.02	625.02
MOPP	000565242	BUSHING	MOLOKAI	9.00	EA	5.43	48.87
MOPP	000565267	SOCKET	ROCKER LEVER	14.00	EA	5.70	79.80
MOPP	000565283	BUSHING	MOLOKAI	33.00	EA	3.13	103.29
MOPP	000565309	PUSHROD	MOLOKAI	15.00	EA	21.82	327.30
MOPP	000565325	VALVE	SHUT-OFF	1.00	EA	105.42	105.42
MOPP	000565341	PUSHROD	MOLOKAI	43.00	EA	7.61	327.23
MOPP	000565366	ACTUATOR	EFC GOVERNOR	4.00	EA	0.00	0.00
MOPP	000565382	FERRULE	MOLOKAI	16.00	EA	6.70	107.20
MOPP	000565408	GEAR	DRIVE ACCESSORY	1.00	EA	212.83	212.83
MOPP	000565424	ACCESS	DRIVE FUEL	1.00	EA	0.00	0.00
MOPP	000565440	GASKET	UPPER, SET	1.00	EA	1,177.37	1,177.37
MOPP	000565465	BELT	MOLOKAI	2.00	EA	16.78	33.56
MOPP	000565481	BELT	DAYCO	2.00	EA	8.02	16.04
MOPP	000565507	BELT	DAYCO	2.00	EA	15.99	31.98
MOPP	000565523	GAUGE	OIL PRESSURE	1.00	EA	32.00	32.00
MOPP	000565549	GAUGE	OIL TEMPERATURE	1.00	EA	32.00	32.00
MOPP	000565564	GAUGE	WATER TEMPERATURE	1.00	EA	32.00	32.00
MOPP	000565580	METER	HOUR CRAS77942	1.00	EA	32.60	32.60
MOPP	000565606	HOSE	FLEXIBLE	4.00	EA	30.14	120.56
MOPP	000565622	HOSE	FLEXIBLE	2.00	EA	52.35	104.70
MOPP	000565648	CARTRIDGE	TURBOCHARGER	1.00	EA	0.00	0.00
MOPP	000565663	CARTRIDGE	TURBOCHARGER	1.00	EA	39,580.80	39,580.80
MOPP	000565689	CYLINDER	AIR	1.00	EA	91.95	91.95
MOPP	000565705	SEAL	OIL	2.00	EA	29.48	58.96
MOPP	000565721	PISTON	KIT	2.00	EA	182.00	364.00
MOPP	000565747	SWITCHGEAR	LUBE OIL	1.00	EA	85.00	85.00
MOPP	000565762	SWITCHGEAR	LUBE OIL W/ELEMENT	2.00	EA	93.50	187.00
MOPP	000565788	THERMOCOUPLE	MOLOKAI	1.00	EA	22.00	22.00
MOPP	000565804	INJECTOR, FUEL	MOLOKAI	2.00	EA	106.60	213.20
MOPP	000565820	JUMPER LINE	MOLOKAI	2.00	EA	6.29	12.58
MOPP	000565846	JUMPER LINE	MOLOKAI	2.00	EA	6.29	12.58
MOPP	000565861	SCREEN	AIR FILTER	0.00	EA	319.00	0.00
MOPP	000565887	SCREEN	AIR FILTER	0.00	EA	214.84	0.00
MOPP	000565903	HOSE	BRAIDED	1.00	EA	455.86	455.86
MOPP	000565929	LINER	ROTOR	0.00	EA	3.21	0.00
MOPP	000565945	FILTER	ULTIPOR, PALL	24.00	EA	170.26	4,086.24
MOPP	000565960	FILTER	FUEL	52.00	EA	26.82	1,394.45
MOPP	000565986	FILTER	1W4136	0.00	EA	26.11	0.00
MOPP	000566000	FILTER	MAIN FUEL MANIFOLD	4.00	EA	309.07	1,236.28
MOPP	000566026	FILTER	2020TM	24.00	EA	13.82	331.68
MOPP	000566029	FILTER, LUBE OIL	GROUP: 1W-0798 FILTER GP - LUBRICATION	10.00	EA	34.72	347.21
MOPP	000566042	FILTER	FUEL, PRIMARY	54.00	EA	7.50	404.84
MOPP	000566067	ELEMENT, (FUEL FILTER)	FUEL PUMP FOR CATERPILLAR UNIT 1 & 2	15.00	EA	18.88	283.26
MOPP	000566083	LOCKNUT	.375-24	1.00	EA	0.00	0.00
MOPP	000566109	GASKET KIT - PUMP	STARTING SYSTEM	4.00	EA	11.95	47.80
MOPP	000566125	MAGNETIC PICK ASSY	ELECTRICAL SYSTEM	2.00	EA	2.43	4.86
MOPP	000566141	SWITCH ASSY	PRELUDE PRESS	1.00	EA	0.00	0.00
MOPP	000566166	SEAL-O-RING	COOLING SYSTEM	4.00	EA	0.00	0.00
MOPP	000566182	SEAL-O-RING	COVER	0.00	EA	0.00	0.00
MOPP	000566208	SCREW, BOLT	COVER GP- VALVE MECH	0.00	EA	0.00	0.00
MOPP	000566224	GASKET, COVER	CENTRAL STRUCTURE	0.00	EA	0.00	0.00
MOPP	000566240	WASHER	COVER GP - CENTRAL STRUCTURE	0.00	EA	0.00	0.00
MOPP	000566265	GASKET	COVER GP - CENTRAL STRUCTURE	0.00	EA	8.96	0.00

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

Maui Electric Company, Limited

MATERIALS PHYSICAL INVENTORY
MOLOKAI DIVISION

WH	STOCK CODE	Item	Description	SOH	Unit	Price/ Unit	Total Cost/ Item
MOPP	000566281	SEAL-O-RING	COVER GP - VALVE MECHANISM	0.00	EA	8.45	0.00
MOPP	000566307	SEAL-O-RING	COVER GP-CRANKCASE SIDE	0.00	EA	0.00	0.00
MOPP	000566323	GASKET	CYLINDER HEAD GP	0.00	EA	0.00	0.00
MOPP	000566349	SEAL-O-RING	COVER GP- VALVE MECHANISM	0.00	EA	0.00	0.00
MOPP	000566364	SEAL-O-RING	PAN GP - OIL	0.00	EA	0.00	0.00
MOPP	000566380	SEAL-O-RING	COVER GP-VALVE MECHANISM	0.00	EA	0.00	0.00
MOPP	000566406	RING, PISTON	PISTON & ROD 13:1 RATIO	0.00	EA	0.00	0.00
MOPP	000566422	RING, PISTON	PISTON & ROD 13:1 RATIO	0.00	EA	0.00	0.00
MOPP	000566448	RING, PISTON	PISTON & ROD 13:1 RATIO	0.00	EA	0.00	0.00
MOPP	000566463	RING, PISTON	PISTON & ROD 13:1 RATIO	0.00	EA	0.00	0.00
MOPP	000566489	SEAL-O-RING	FILTER GP - CENTRIFUGAL	0.00	EA	18.83	0.00
MOPP	000566505	SEAL-O-RING	ROCKER ARM	0.00	EA	0.00	0.00
MOPP	000566521	SEAL-O-RING	FILTER GP - CENTRIFUGAL	0.00	EA	13.15	0.00
MOPP	000566547	BUTTON	ROCKER ARM	0.00	EA	0.00	0.00
MOPP	000566562	SEAL-O-RING	LINE - ENGINE	0.00	EA	0.00	0.00
MOPP	000566588	CONTROL	AGL	1.00	EA	1,502.09	1,502.09
MOPP	000566604	CONTROL	LSS	1.00	EA	1,694.49	1,694.49
MOPP	000566620	POTENTIOMETER	MOTOR OPERATED	1.00	EA	576.48	576.48
MOPP	000566646	POTENTIOMETER	MOTOR OPERATED	1.00	EA	576.48	576.48
MOPP	000566661	RELAY	POTTER & BRUMFIELD IDC 120V	1.00	EA	36.50	36.50
MOPP	000566687	RELAY	POTTER & FRUMFILED 24 VDC	4.00	EA	32.27	129.08
MOPP	000566703	RELAY	POTTER & BRUMFIELD	1.00	EA	76.48	76.48
MOPP	000566729	GASKET	MOLOKAI	0.00	EA	1.06	0.00
MOPP	000601005	Seal Kit, Oil Fog Lub.		0.00	EA	0.00	0.00
MOPP	000601013	Seal Kit, N41500		0.00	EA	0.00	0.00
MOPP	000601039	Gasket	Water Manifold to Turbo Housing	5.00	EA	0.00	0.00
MOPP	*000601096*	*Solonoid*		*0.00*	*EA*	*0.00*	*0.00*
MOPP	000601104	Switch, Low oil level		0.00	EA	0.00	0.00
MOPP	000601112	Actuator		0.00	EA	0.00	0.00
MOPP	000601120	VALVE, PRESSURE RELIEF	AIR START SYSTEM, CATS 7 - 8 - 9 MOLOKAI	2.00	EA	183.90	367.79
MOPP	000601138	Sender, Air Pressure Local PNL		0.00	EA	0.00	0.00
MOPP	000601146	O-ring		0.00	EA	0.00	0.00
MOPP	000601179	SEAL-O-RING	COOLING SYSTEM, WATER PUMP	0.00	EA	0.00	0.00
MOPP	000603787	FILTER, WATER (COOLANT)	HANA, MOLOKAI (2 PER)	0.00	EA	18.35	0.00
MOPP	000612051	KIT, VALVE	CRANKCASE, BASIC ENGINE	0.00	EA	0.00	0.00
MOPP	000612069	RTD	MINI ALUMINUM HEAD 100 OHM	3.00	EA	93.60	280.80
MOPP	000613356	FILTER, PRIMARY AIR	FOR CATERPILLAR, MODEL #3516, SIZE: 16	4.00	EA	97.59	390.35
MOPP	000613364	FILTER, SECONDARY AIR	FOR CATERPILLAR, MODEL#3516, SIZE: 16	4.00	EA	98.35	393.41
MOPP	000614725	RELAY, ELECTRONIC, POTTER BRUMFIELD	FOR CATERPILLAR DIESEL ENGINE, MODEL	2.00	EA	0.00	0.00
MOPP	000614726	RELAY, ELECTRONIC, POTTER BRUMFIELD	FOR CATERPILLAR DIESEL ENGINE, MODEL	6.00	EA	0.00	0.00
MOPP	000615807	ASSEMBLY, INJECTOR	FOR CATERPILLAR 3608, 8 CYLINDER	2.00	EA	2,126.93	4,253.85
MOPP	000628768	KIT, REPAIR, SOLENOID	MOLOKAI 7 - 8 - 9	3.00	EA	265.66	796.99
MOPP	000630202	BEARING, FLANGE, F4B-SCM 215	MEDIUM DUTY	2.00	EA	287.48	574.96
MOPP	000630210	BLOCK, FLANGE, E-TRA, F4B 215R	SIZE: 2-15/16"	2.00	EA	398.41	796.82

NOTE: SOH - Stock on Hand

SOURCE: DARS 3342 Report (as of 5/31/07)

01-03-07 to 02-05-07

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 1
Report: MSR17BA
Version: 5.2.37.004

Report Parameters: Request Userid: MALIBIN
Requested on: 02/05/07 at: 10:52:11

Report Controls:

Selection Criteria:
Transaction Id From
To
Tolerance Amount 0000001
Tolerance Percent 001
Suppress Zero Qty. Y

Sort Order:
ASCENDING dstrct-code
ASCENDING whouse-id-a
ASCENDING tran-amount
ASCENDING stock-code-a

Possible Reference made to Historical Transactions

CA-IR-90
DOCKET NO. 2006-0387
ATTACHMENT 6
PAGE 1 of 48

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After S.O.H.	Count	Adjustment Quantity	Transaction Value
Warehouse KPP KAHULUI POWER SUPPLY											
000524389 G G EA ELEMENT, VULCROM DIAMETER: 2", LENGTH: 208" #3, #4, & #5 LOCATIONS FOR SOOTBLOWER KAHULUI 3			D Z	20070103386713800002 8A7A	STO	PS	2916.92 1944.61	2	2	1-	972.31-
000515320 G G BX PACKING, GRAPHITE *PUMPS - 700 DEGREES 1/2"* GARLOCK 1304 5# BOX GENERAL MAINTENANCE			C Z	20070124339334900001FBEA	STO	PS MC	832.22 0.00	1	0	1-	832.22-
000514109 G G EA VALVE PILOT REVERSE OSMOSIS SYSTEM ELECTRICAL MAINTENANCE			D Z	20070124339336300001FBEA	STO	PS	338.00 0.00	1	0	1-	338.00-
000519561 G G EA TUBE, CORTEN STEEL 2 1/2" X 22' X 14G X .083THK KAHULUI 1 & 2 AIRHEATER GENERAL MAINTENANCE			D Z	20070103386710500002 8A7A	STO	PS	480.47 366.07	16	16	5-	114.40-
000223909 G G SH ROCBOARD, PARTEK, 2 x 24 x 48", 8# DENSITY. FOR BOILER INSULATION. (48 SF OR 6 SHEETS PER BUNDLE). DO NOT SUBSTITUTE.			C Z	20070117332972900007190A	STO	PS CG	1593.63 1497.05	93	93	6-	96.58-
000625624 G G EA PLUG, VALVE, 7X7 FOR #612 WORTHING COMPRESSOR KAHULUI 4			C Z	20070113299709000005 3FBA	STO	PS MC	162.24 81.12	1	1	1-	81.12-
000603753 G G EA Brick, Female, 9 x 1.8 - 2.56 x 3", Super duty fire brick, 648 pc/pallet NOT insulating fire brick			C Y	20070124339328900001FBEA	STO	PS MC	5166.19 5101.96	556	556	7-	64.23-

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 6
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After Adjustment S.O.H.	Count	Quantity	Transaction Value
Warehouse KPP KAHULUI POWER SUPPLY											
000517706 G G EA VALVE, GATE 3/4" BRONZE, 150# IPS RS			C Z	20070103386715100002 8A7A	STO	PS MC	74.12 24.72	1	1	2-	49.40-
000599480 G G PK Citric Acid Reagent Powder Pillows 100/pk Hach, P.O. Box 907			C Z	20070117347355200007190A	STO	PS MC	18.99 0.00	10	0	1-	18.99-
000517920 G G EA VALVE, GLOBE FS 800# SW BB OS&Y, 1"			C Z	20070110362361300001 04CA	STO	PS MC	281.91 422.87	6	6	2	140.96
Warehouse Total for counts printed:											2426.29-
for ALL counts:											2426.29-

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 7
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After Count S.O.H.	Adjustment Quantity	Transaction Value
Warehouse MOPP MOLOKAI PRODUCTION									
000560961 FILTER COOLING WATER, (4 PER) HANA, MOLOKAI 3, 4, 5, 6 CUMMINS, KTA 50, FLEETGUARD	G G EA	C Z	20070108479622900001AF0A	STO	PS	276.09 165.65	36	0	8-	110.44-
000560946 FILTER L.O. BY-PASS, (2 PER) HANA, MOLOKAI 3, 4, 5, 6 CUMMINS, KTA50, FLEETGUARD	G G EA	C Z	20070108479652400001AF0A	STO	PS	532.17 714.63	28	16	12	182.46
000560920 FILTER LUBE OIL, (5 PER) HANA, MOLOKAI 3, 4, 5, 6 CUMMINS, KTA50, FLEETGUARD	G G EA	C Z	20070108479656000001AF0A	STO	PS	875.95 1368.68	56	29	27	492.73
Warehouse Total for counts printed:										564.75
for ALL counts:										564.75

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000475020 VALVE INDICATOR - COMPLETE, M-12 & M-13 (INDICATOR VALVE 107)	G G	EA	D Y	20070129527249400004CD3A	STO	PS	5438.04 0.00	0	0	6-	5438.04-
000488601 PIPE C.W.P. OUTLET & DRAIN, D501383K-1 INCL: 810B-038 L TYPE PIPE JOINT & 810B-039 L TYPE PIPE JOINT. (L.O. PIPING 811)	O G	EA	C Z	20070130561778100009 14EA	STO	PS	1477.00 738.50	2	2	2-	738.50-
000535260 UNIT TERMINATION, DIGITAL/ANALOG (DISTR. CNTRL SYS)	G G	EA	C Z	20070201362537300005 98AA	STO	PS	548.80 156.80	2	2	5-	392.00-
000431064 CLEVIS FAN (JACKET WATER)	G G	EA	D Z	20070123634258900007 18DA	STO	PS	224.00 0.00	0	0	8-	224.00-
000513309 ELEMENT AIR FILTER, IR HOUSE COMPRESSOR EP-75	G G	EA	C Z	20070131372314000004 3D3A	STO	PS	261.62 174.41	4	4	2-	87.21-
000614784 PEN, DISPOSABLE, RED INK MODEL NO. S/N93190009-10, KAHULUI 1 & 2. MODEL NO. S/N93190011, KAHULUI 3. (5 PENS PER PACK) ESTERLINE ANGUS	G G	PK	C Z	20070111421166800005 828A	STO	PS	187.02 103.90 K31	8	8	8-	83.12-
000431866 THERMOMETER ASHCROFT, 0/250 F, 3" FACE DIAL W/ EVERY ANGLE CONNECTION, 2.5" STEM (ACCESSORIES)	G G	EA	C Z	20070117377613400001 7A9A	STO	PS	321.22 240.91	3	3	1-	80.31-

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 9
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000432062 BUSH TURBOCHARGER	G G	EA	D Z	20070201366158600005 98AA	STO	PS	146.36 73.18	1	1	1-	73.18-
000464743 HOSE F.O. DRAIN PIPING (LSV 50-25)	G G	EA	C Z	20070116378B28900003794A	STO	PS	130.55 97.91	6	6	2-	32.64-
000495788 COUPLING RING PUMP TYPE: 250 DL-AM DWG. 10729 AM UNIT M12-M13 TEIKOKU MACHINERY WORKS (JKT WATER PUMP M305)	G G	EA	D Z	20070131508252900004 3D3A	STO	PS	374.98 343.73	22	22	2-	31.25-
000627521 CLAMP WORM DRIVE HOSE 80, CRANKCASE VACUUM PIPE MAALAEA 8 - 9	G G	EA	C Z	20070201366147400005 98AA	STO	PS MC	14.49 5.79	4	4	6-	8.70-
000493304 ORING MAIN FILTER (L.O. MAIN FILTER M253) 0283V .275"C/S X 699MM ID X 87.319" 0284V .275"C/S X 699MM ID X 87.319"	G G	EA	D Z	20070131372316400004 3D3A	STO	PS	1.25 0.00	0	0	1-	1.25-
000468801 ORING VITON,114"(2.90MM)ID x .070"(1.78MM)CS LSV 72-26 BEARING TEMP. DET.	G G	EA	C Z	20070115621910300005 B8EA	STO	PS	15.55 14.97	26	26	1-	0.58-
00043228 6 LOCK-NUT PAL (TURBOCHARGER PARTS)	G G	EA	D Z	20070201366166600005 98AA	STO	PS	0.80 0.76	19	19	1-	0.04-
000432245 SCREW HEX (TURBOCHARGER PARTS)	G G	EA	D Z	20070201365238300005 98AA	STO	PS	0.50 0.70	14	14	4	0.20

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 10
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000432369 NUT TURBOCHARGER	G G	EA	D Z	20070201365243300005 98AA	STO	PS	6.50 / 8.50	34	34	8	2.00
000482901 PACKING STARTING, AIR, D501592K (STARTING AIR B13A)	G G	EA	C Z	20070130561799300009 14EA	STO	PS	109.00 / 115.05	57	57	3	6.05
000432021 LOCKWASHER TURBOCHARGER	G G	EA	D Z	20070123633370900007 18DA	STO	PS	132.21 / 146.90	10	10	1	14.69
000432500 GASKET BEARING COVER (TURBOCHARGER PARTS)	G G	EA	C Z	20070112436436900004 289A	STO	PS	116.48 / 145.60	5	5	1	29.12
000432708 STUD WHITWORTH THREAD, 1/2" (TURBOCHARGER PARTS)	G G	EA	D Z	20070122321537400005 C6CA	STO	PS	74.19 / 108.81	22	22	7	34.62
000432328 STUD TURBOCHARGER	G G	EA	D Z	20070201365242000005 98AA	STO	PS	146.01 / 207.24	44	44	13	61.23
000432807 STUD TURBOCHARGER	G G	EA	D Z	20070201365311200005 98AA	STO	PS	60.60 / 124.23	41	41	21	63.63
000614784 PEN, DISPOSABLE, RED INK MODEL NO. S/N93190009-10, KAHULUI 1 & 2. MODEL NO. S/N93190011, KAHULUI 3. (5 PENS PER PACK) ESTERLINE ANGUS	G G	PK	C Z	20070111419513300005 828A	STO	PS	103.90 / 187.02 SRM33	8	16	8	83.12
000432005 NUT 1/2" WHITWORTH (TURBOCHARGER PARTS)	G G	EA	C Z	20070201365275500005 98AA	STO	PS	694.56 / 798.17	208	208	27	103.61

Req.By: ALIBIN,MAY-ANNE A
Run on: 02/05/07 at: 10:52:17

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 11
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000432682 PLATE SECURING (TURBOCHARGER PARTS)	G G	EA	D Z	20070201365264400005 98AA	STO	PS	71.33 183.42	18	18	11	112.09
000448985 SEAT VALVE, SPECIAL 5.086" O.D. (CYLINDER HEAD LSV 11-8)	G G	EA	C Y	20070115621915800005 B8EA	STO	PS	2711.52 2829.41	24	24	1	117.89
000432625 STUD TURBOCHARGER	G G	EA	D Z	20070201365268200005 98AA	STO	PS	210.60 336.96	80	80	30	126.36
000535245 UNIT TERMINATION, OPU-C (DISTR. CNTRL SYS)	G G	EA	D Z	20070201362540300005 98AA	STO	PS	171.20 599.20	7	7	5	428.00
000432005 NUT 1/2" WHITWORTH (TURBOCHARGER PARTS)	G G	EA	C Z	20070103320931500005 809A	STO	PS	218.73 694.56	208	181	124	475.83
000432781 WASHER LOCK (TURBOCHARGER PARTS)	G G	EA	D Z	20070112436440900004 289A	STO	PS	3088.26 4117.68	4	4	1	1029.42
000450189 CAM FUEL INJECTOR (CAMSHAFT - FUEL INJ. LSV 14-17)	G G	EA	D X	20070124477019400001 150A	STO	PS	38609.31 45629.18	26	26	4	7019.87
Warehouse Total for counts printed:											2516.91
for ALL counts:											2516.91

02-06-07 to 03-02-07

Req By: ALIBIN,MAY-ANNE A
Run on: 03/02/07 at: 07:21:08

MAUI ELECTRIC COMPANY, LTD.

OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 1
Report: MSR17BA
Version: 5.2.37.004

Report Parameters: Request Userid: MALIBIN
Requested on: 03/02/07 at: 07:20:59

Report Controls:

Selection Criteria:

Transaction Id From	
To	
Tolerance Amount	0000001
Tolerance Percent	001
Suppress Zero Qty.	Y

Sort Order:

ASCENDING	dstrct-code
ASCENDING	whouse-id-a
ASCENDING	tran-amount
ASCENDING	stock-code-a

Possible Reference made to Historical Transactions

Transaction Types selected for this Report

STO Owned Stock Count Adjustment

Req.By: ALIBIN,MAY-ANNE A
Run on: 03/02/07 at: 07:21:08

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 5
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse KPP KAHULUI POWER SUPPLY											
000516922 G G EA THERMOMETER 0-250F, 5" FACE, 4" STEM ELECTRICAL MAINTENANCE K1			D Z	20070207342294600000C7F5A	STO	PS	153.33 0.00	0	0	2-	153.33-
000513705 G G EA BEARING STEADY-CARBON #701/702 WEIL SUMP PUMP			C Z	20070207342301800000C7F5A	STO	PS	134.10 0.00	0	0	1-	134.10-
000514323 G G EA QUICK COTE INSULATION GENERAL MAINTENANCE			C Z	20070207342285500000C7F5A	STO	PS	464.61 387.18	15	15	3-	77.43-
000513580 G G EA ANODE, ZINC, 6" DIA X 1" THICK WITH 5/8" CORE. GENERAL MAINTENANCE			C Z	20070214332983800007 1D7A	STO	PS	1375.47 1312.23	79	83	4-	63.24-
000514729 G G EA GAUGE, 60# PSI WIKA 2-1/2" LIQUID FILLED PRESS GAUGE ELECTRICAL MAINTENANCE K1-4			C Z	20070207342289800007 C7F5A	STO	PS	93.24 46.62	1	1	1-	46.62-
000614723 G G EA GAUGE, BRONZE TUBE 2.5, 60 PSI ASHCROFT KAHULUI UNITS 1 & 3			C Z	20070214332989000007 1D7A	STO	PS MC	91.94 45.97	1	1	1-	45.97-
000614501 G G EA STUD, BOLTS 7/16" X 2-1/2" PNEUMATIC CONTROLS			D Z	20070228345765800003626A	STO	PS MC	77.09 76.05	73	73	1-	1.04-
000524182 O G EA SODA ASH, 50# BAG AIR HEATER WASH GENERAL MAINTENENCE			C Z	20070207342270500007 C7F5A	STO	PS MC	310.08 375.36	23	23	4	65.28
Warehouse Total for counts printed: for ALL counts:											456.45- 456.45-

Req.By: ALIBIN,MAY-ANNE A
Run on: 03/02/07 at: 07:21:08

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 6
Report: MSR17BA
Version: S.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After Adjustment S.O.H.	Count	Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000474528 TIP, NOZZLE, 10 HOLE, DWG. D501218K, (.076 X 10 X 77) COMPLETE (MARK 102,105,106) (FUEL INJ. VALVE - 105)	G G ST		A X	20070223565437000054F0A	STO	PS	36722.48 35574.90	32	31	1-	1147.58-
000489625 SEAL MECHANICAL NLGS-2M F.O. DRAIN DISCH PUMP	G G EA		D Z	20070220340640600007 76FA	STO	PS	909.52 0.00	0	0	1-	909.52-
000512186 GAUGE, DURALIFE 2-1/2", 160#, 1/4" NPT BACK	E E EA		C Z	20070206509236200007 23EA	STO	PS	266.73 213.39	3	4	1-	53.34-
000482125 BOLT HEX SOCKET, D501220K-1 (F.I.P. DRIVE GEAR 516)	G G EA		D Z	20070228366283500008650A	STO	PS	605.28 567.84	91	91	6-	37.44-
000481804 PIN SCREW, TAPER, D501298.9K (F.O. INJ PUMP ADJ 515)	G G EA		C Z	20070228366280900008650A	STO	PS	280.80 262.08	28	28	2-	18.72-
000560128 GASKET SPIRAL WOUND 150# 2-1/2" (HRSG)	G G EA		D Z	20070223565448000054F0A	STO	PS	91.65 83.32	20	20	2-	8.33-
000446641 CAPSCREW 3/8-16 X 7/8 (TURBOCHARGER ET24-1-3)	G G EA		D Z	20070215414808700000D4BDA	STO	PS	24.11 21.57	34	34	4-	2.54-
000634287 FUSE, GOULD/SHAWMUT, 200A M18, PANEL, PLUP-PNL1B MAALAEA 18	G G EA		D Z	20070221418955300005E0A	STO	PS MC	0.00 0.00	4	4	4	0.00

Req.By: ALIBIN,MAY-ANNE A
Run on: 03/02/07 at: 07:21:08

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 7
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After Adjustment S.O.H.	Count	Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY										
000634295 G G EA FUSE, BUSSMANN, 15A, 600 VAC M18, 480V SWITCHGEAR MAALAEA 18		D Z	20070221418956100000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634303 G G EA FUSE, BUSS, 10A, 600 VAC M18, 480V SWITCHGEAR MAALAEA 18		D Z	20070221418956800000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634311 G G EA FUSE, BUSSMANN, 10A, 250 VAC M18, 480V SWITCHGEAR MAALAEA 18		D Z	20070221418952400000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634329 G G EA FUSE, BUSS, 6A, 600 VAC M18, 480V SWITCHGEAR MAALAEA 18		D Z	20070221418957900000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634337 G G EA LAMP, C3 CONTROLS, HIGH THRESHOLD, RED MAALAEA 18		D Z	20070221419840700000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634345 G G EA LAMP, C3 CONTROLS, HIGH THRESHOLD, GRN 52G-18 SWGR		D Z	20070221419842200000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634352 G G EA FUSE, BUSSMANN, 20A, 52G-18 SWGR M18, 480V SWITCHGEAR MAALAEA 18		D Z	20070221419837500000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634360 G G EA FUSE, BUSSMANN, 6A, 250 VAC, PRIMARY CLF 52G-18 SWGR MAALAEA 18		D Z	20070221418958700000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00
000634378 G G EA FUSE, BUSSMANN, 1A, 250 VAC, PRIMARY CLF 52G-18 SWGR MAALAEA 18		D Z	20070221418959500000E5E0A	STO	PS MC	0.00 0.00	10	10	10	0.00

Req.By: ALIBIN,MAY-ANNE A
Run on: 03/02/07 at: 07:21:08

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 8
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000634386 G G EA FUSE, BRUSH 15KV, .5E, PRIMARY CLF 52G-18 SWGR MAALAEA 18			D Z	20070221419839700000E5E0A	STO	PS MC	0.00 0.00	4	4	4	0.00
000634394 G G EA BOLT, HEX, TRIP & THROTTLE MAALAEA 15			D Z	20070221419849000000E5E0A	STO	PS MC	0.00 0.00	1	1	1	0.00
000634402 G G EA NUT, HEX, TRIP & THROTTLE MAALAEA 15			D Z	20070221419843600000E5E0A	STO	PS MC	0.00 0.00	1	1	1	0.00
000634550 G G EA GASKET, HYDRAULIC PUMP MAALAEA 14 - 16			D Z	20070221419849800000E5E0A	STO	PS MC	0.00 0.00	5	5	5	0.00
000634568 G G EA SEAL, RETAINER MAALAEA 14 - 16 - 17 - 19			D Z	20070221420126500000E5E0A	STO	PS MC	0.00 0.00	5	5	5	0.00
000634576 G G EA VALVE, OTSG LP STEAM MOV50 MAALAEA 18 HR 3 - 4			D Z	20070221420127300000E5E0A	STO	PS MC	0.00 0.00	1	1	1	0.00
000446625 G G EA CAPSCREW 3/8 X 3/4 (TURBOCHARGER ET24-1-3)			D Z	20070215414804500000D4BDA	STO	PS	14.21 14.70	30	30	1	0.49
000489906 G G EA GASKET F.O. PRIMARY FILTER			D Z	20070220340633500000776FA	STO	PS	12.52 15.65	5	5	1	3.13
000481945 G G EA ORING FUEL INJ PUMP DR GEAR D501220K-1 (F.I.P. DRIVE GEAR 516)			C Z	20070228366282000008650A	STO	PS	171.45 175.26	46	46	1	3.81

Req By: ALIBIN,MAY-ANNE A
Run on: 03/02/07 at: 07:21:08

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 9
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000489088 G G EA PACKING GEAR CASE INSIDE, L.O. PIPING SYS. DWG. D503352K-2 (L.O. PIPING 811)			C Z	20070228366278300008650A	STO	PS	263.71 278.20	96	96	5	14.49
000501940 G G EA SPRING VALVE (LHC-265A)			D Z	20070222546104900003FD2A	STO	PS	93.60 124.80	4	4	1	31.20
000550269 G G EA SEAL CONCENTRATES (U CUPS) (US FILTER 18749) (WATER TREATMENT)			D Z	20070212511683600001477A	STO	PS	1119.79 1168.48	24	24	1	48.69
000498048 G G EA SEAL COVER, 8" (TEMP. CONTROL VALVE M264-1)			D Z	20070226611238000005D69A	STO	PS	0.00 75.80	4	4	4	75.80
000496208 G G EA BEARING FAN, M-12, M-13+D3745 (JKT WATER BEARING M-305)			C Z	20070209561743000002592A	STO	PS	227.73 341.60	6	6	2	113.87
000501866 G G EA PLATE VALVE (LHC-265A)			D Z	20070222546100700003FD2A	STO	PS	272.86 545.72	4	4	2	272.86
000549808 G G EA TRANSMITTER PRESSURE 0-750# (WATER TREATMENT)			C Z	20070213416159800002790A	STO	PS	1688.70 1970.15	7	7	1	281.45
000474528 G G ST TIP, NOZZLE, 10 HOLE, DWG. D501218K, (.076 X 10 X 77) COMPLETE (MARK 102,105,106) (FUEL INJ. VALVE - 105)			A X	20070226611196700005D69A	STO	PS	35574.90 36722.48	32	32	1	1147.58

Req.By: ALIBIN,MAY-ANNE A
Run on: 03/02/07 at: 07:21:08

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 10
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY										
000477968 COMPRESSION RINGS, PLASMA GAS TIGHT TOP - MODIFIED "INTER-LOCK TYPE" (PISTON 401)	G G EA	A X	20070223556538700005 4F0A	STO	PS	56898.42 59129.73	53	53	2	2231.31
000544783 NOZZLE FUEL	O G EA	D Z	20070205463285600007 0A5A	STO	PS	0.00 12015.80	10	10	10	12015.80
Warehouse Total for counts printed:										14063.01
for ALL counts:										14063.01

03-02-07 to 04-02-07

Req.By: YAMASHITA,IRENE M
Run on: 04/04/07 at: 10:19:42

MAUI ELECTRIC COMPANY, LTD.

OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 1
Report: MSR17BA
Version: 5.2.37.004

Report Parameters: Request Userid: IYAMASHI
Requested on: 04/04/07 at: 10:19:39

Report Controls:

Selection Criteria:

Transaction Id From 20070302
To 20070402
Tolerance Amount 0000001
Tolerance Percent 001
Suppress Zero Qty. Y

Sort Order:

ASCENDING dstrct-code
ASCENDING whouse-id-a
ASCENDING tran-amount
ASCENDING stock-code-a

Possible Reference made to Historical Transactions

Transaction Types selected for this Report

STO Owned Stock Count Adjustment

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse KPP KAHULUI POWER SUPPLY											
000626945 GASKET, GRAFOIL FOR #43 FEEDWATER HEATER KAHULUI 4	G G	EA	C Z	20070308566836300001820A	STO	PS MC	109.82 54.91	8	2	2-	54.91-
000521484 LANCE HANGER K-2 SOOTBLOWER GENERAL MAINTENANCE	G G	EA	D Z	20070328498301400004 7FCA	STO	PS	1545.93 1500.46	33	33	1-	45.47-
000527267 GASKET, RING, GRAPHITE 3.125 X 3.563 X .125 K-3 BOILER HANDHOLES	G G	EA	D Z	20070328498297300004 7FCA	STO	PS MC	2292.17 2249.88	532	532	10-	42.29-
000614420 VALVE, PRESSURE RELIEF FOR 153 & 154 PRIMARY FUEL OIL PUMPS SERIAL NO. TE74003, 1" KAHULUI UNIT 1 OLD MODEL NO. 19757-3	V G	EA	D Z	20070314470574000003 15FA	STO	PS	0.00 0.00	0	0	1-	0.00
Warehouse Total for counts printed:											142.67-
for ALL counts:											142.67-

Req.By: YAMASHITA,IRENE M
Run on: 04/04/07 at: 10:19:42

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 6
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse LAPP LANAI PRODUCTION											
000561787 G G EA DISC RADIATOR COOLING FAN (C1208 RAD. FAN)			C Z	20070315535867700007E79A	STO	PS	1870.25 3740.50	6	6	3	1870.25
000565663 G G EA CARTRIDGE TURBOCHARGER VTC-254-109-00 MOPP, LAPP			A X	20070312430303600005 8CCA	STO	PS	0.00 39580.80	0	1	1	39580.80
Warehouse Total for counts printed:											41451.05
for ALL counts:											41451.05

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After Count S.O.H.	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY										
000448605 LINER CYLINDER (CYLINDER LINER LSVB 9-2)	O G	EA	C X	20070323355883900005880A	STO	PS	40990.98 34518.72	16	16	3- 6472.26-
000485862 RING THRUST COLLAR, TV57H-D (TURBOCHARGER 751)	G G	EA	D Z	20070315351695300004096A	STO	PS	2875.37 0.00	0	0	1- 2875.37-
000450585 PUSH ROD ASSY, FUEL INJ. FUEL INJECTOR (FUEL INJECTOR LSV 14-19)	G G	EA	C Y	20070309537448900005011A	STO	PS	5287.77 4474.27	11	11	2- 613.50-
000486720 CONNECTORS FOR PICK UP & MAGNET (TURBOCHARGER TV57H-D)	G G	EA	C Z	20070316528216000006BF1A	STO	PS	1020.77 583.30	4	4	3- 437.47-
000498261 MEDIA FILTER - T/C 59"W X 65'L (INTAKE AIR M651)	G G	EA	C Y	20070309537454700005011A	STO	PS	8252.37 7893.57	22	22	1- 358.80-
000535088 LAMP, INDICATING COLOR: RED CONTROL ROOM ELECT MAINTENANCE	G G	EA	D Z	20070313477122000001 7E1A	STO	PS MC	728.58 485.72	4	4	4- 242.86-
000535104 LAMP, INDICATING COLOR: GREEN CONTROL ROOM ELECT MAINTENANCE	G G	EA	C Z	20070313436899700006B76A	STO	PS	495.32 309.58	3	3	3- 185.74-
000485326 PIN TAPER, SPLIT (TACHO DRIVE GEAR 776)	G G	EA	D Z	20070316395606500004142A	STO	PS	88.48 0.00	0	0	8- 88.48-

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000567883 FILTER AIR (DEGASIFIER) 24" X 24" X 2" (GLEGG WATER TREATMENT) (12 per box)	G G	EA	C Z	20070309537452900005011A	STO	PS	1484.42 1398.37	339	195	12-	86.05-
000615187 GAUGE, PRESSURE, 0-160 PSI TYPE 232.34, 4-1/2" FACE, LOWER MOUNT 1/2" NPT MAALAEA 8, 9	G G	EA	C Z	20070302525641200005 7A2A	STO	PS MC	1087.43 1019.47	15	15	1-	67.96-
000474148 BEARING & COVER THRUST BALL (EXHAUST VALVE 103)	G G	EA	D Z	20070316395608300004142A	STO	PS	330.90 278.65	16	16	3-	52.25-
000489948 O RING METRIC 5.7 X 169.3 FLUOROELASTOMER 75 F.O. PRIMARY FILTER MITSUBISHI DP-II666	G G	EA	D Z	20070315351672700004096A	STO	PS	578.49 542.33	30	30	2-	36.16-
000479162 O RING M-10, D501219K 3.0 X 56 (F.O. INJ. PUMP 511)	G G	EA	C Z	20070307522021500001E63A	STO	PS	1595.76 1569.60	60	60	1-	26.16-
000540146 FILTER EXTENDED LGTH 30" (VENTILATION SYS)	X G	EA	D Z	20070328551338100006471A	STO	PS MC	24.09 0.00	0	0	3-	24.09-
000483321 PACKING F.O. PUMP, D501351K (F.O. PUMP 877)	O G	EA	C Z	20070302525639100005 7A2A	STO	PS	9.36 0.00	0	0	3-	9.36-

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000484402 G G EA PACKING EXH. GAS MANIFOLD (EXHAUST PIPE 636)			D Z	20070309537454000005011A	STO	PS	0.00 0.00	0	0	6-	0.00
000489542 G G EA SEAL OIL, D433-52488 (F.O. DRAIN DISCHARGE PUMP M106)			D Z	20070321495457600006 50EA	STO	PS	0.00 0.00	0	0	1-	0.00
000500942 G G EA SEAL GOV. TWO STAGE BOOSTER (WOODWARD GOVERNOR)			D Z	20070321495461600006 50EA	STO	PS	0.00 0.00	4	4	3	0.00
000545921 G G EA CONTROL VSV, FIG. 88 (VARIABLE STATOR VANE CNTRL)			D Z	20070312368309700005 8C4A	STO	PS	0.00 0.00	3	3	1	0.00
000551044 G G EA PLATE LOCKING (GENERATOR SPARES)			D Z	20070320478764500004 BF8A	STO	PS	0.00 0.00	0	0	5-	0.00
000634444 G G EA SHIM BETWEEN JACKET SUPPORT AND ENGINE FRAME MAALAEA 8 - 9			D Z	20070320527494800004 510A	STO	PS MC	0.00 0.00	17	17	17	0.00
000634816 G G EA SHIM BETWEEN JACKET AND ENJINE SUPPORT MAALAEA 8 - 9			D Z	20070322537137200005 931A	STO	PS MC	0.00 0.00	5	5	5	0.00
000475442 G G EA RING SNAP (CYL COVER BONNET 130			D Z	20070307522018800001 E63A	STO	PS	36.54 38.57	19	19	1	2.03

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000476408 INSERT HELICAL (CYLINDER BLOCK 204)	G G	EA	C Z	20070326562092000006 1C0A	STO	PS	60.68 64.05	19	19	1	3.37
000487041 PACKING BEARING CASING, FIG. 10 (TURBOCHARGER 761) TV57H-C	G G	EA	D Z	20070307522301800001E63A	STO	PS	240.94 253.62	20	20	1	12.68
000479220 ORING M-12, D502304K-2 (F.O. INJ PUMP 511)	G G	EA	D Z	20070307522022900001E63A	STO	PS	820.44 835.92	108	108	2	15.48
000502047 GASKET SUCTION STRAINER (LHC-265A)	G G	EA	D Z	20070321495463700006 50EA	STO	PS	93.12 108.64	7	7	1	15.52
000489062 PACKING GEAR CASE INSIDE, L.O. PIPING SYS. DWG. D503352K-2 (L.O. PIPING 811)	G G	EA	C Z	20070307522016400001E63A	STO	PS	14.56 52.00	25	25	18	37.44
000442525 SEAL MECHANICAL (L.O. SCAVENGING & F.O. PUMP B-40)	G G	EA	D Z	20070316395600500004142A	STO	PS	75.84 113.76	3	3	1	37.92
000617225 JOINT, SCREW - F.O. PUMP INLET D533406K MAALAEA 10 - 13	G G	EA	C Z	20070322471405900001A9EA	STO	PS	1805.08 1867.32	30	30	1	62.24
000483263 PACKING F.O. PUMP, INLET (F.O. PUMP 877)	G G	EA	C Z	20070307522013000001E63A	STO	PS	300.51 372.19	134	135	26	71.68

Req.By: YAMASHITA,IRENE M
Run on: 04/04/07 at: 10:19:42

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 11
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000568527 FILTER SUPPLY (FLT3) HYD. START SYSTEM MODEL #4578GF-BI0AL-S	G G	EA	C Z	20070322471397600001A9EA	STO	PS	902.28 984.31	12	12	1	82.03
000482687 PACKING STARTING AIR	G G	EA	C Z	20070307522007800001E63A	STO	PS	709.37 798.04	81	81	9	88.67
000539486 ELEMENT ASSY. 30" AIR FILTER (VENTILATION SYSTEM)	O G	EA	D Z	20070328551340500006471A	STO	PS	93.60 187.20	6	6	3	93.60
000479667 PACKING, F.I. PUMP D502304K-2, standard size UNIT: M-12 (F.O. INJ PUMP 511)	G G	EA	D Z	20070307522025100001E63A	STO	PS	753.96 863.76	472	472	60	109.80
000485821 NUT ROTATING PART FIG. 9, MARK # 38 (TURBOCHARGER 751)	G G	EA	C Z	20070307522299500001E63A	STO	PS	380.64 570.96	3	3	1	190.32
000478586 NUT VALVE GEAR (V.G.R.A. 503A)	G G	EA	D Z	20070326503061700005518A	STO	PS	207.25 414.51	8	8	4	207.26
000428607 VALVE TEMP DETECTOR PIPING (CONTROLS 011)	G G	EA	C Z	20070309481329200005011A	STO	PS	0.00 303.24	6	6	6	303.24
000552604 SPRING PRESSURE (TURBINE DIAPHRAGM)	G G	EA	C Z	20070326562096600006 1C0A	STO	PS	1560.00 1976.00	76	76	16	416.00

TV57H-C

Req.By: YAMASHITA,IRENE M
Run on: 04/04/07 at: 10:19:42

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 12
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY										
000428508 ROD FUSE, (MAIN BRG) 10-1/2" (CONTROLS 011)	G G EA	D Z	20070309481325100005011A	STO	PS	0.00 694.44	18	18	18	694.44
000428482 ROD FUSE, 6-7/8" 011 CONTROLS	O G EA	D Z	20070309481332900005011A	STO	PS	0.00 835.68	16	16	16	835.68
000447847 NUT SELF LOCK (MAIN BRG LSV 7-6)	G G EA	D Z	20070316395604200004142A	STO	PS	1078.17 1940.71	36	36	16	862.54
000485888 SLEEVE SHRINKAGE, O.S. TV57H-C, LOWER SIDE (TURBOCHARGER 761)	G G EA	D Z	20070315351696800004096A	STO	PS	915.20 1830.40	2	2	1	915.20
000547901 KIT SEAL 3.25" CRB/CER (ROTO-JET PUMP)	G G EA	C Y	20070312566935900003391A	STO	PS	4873.70 7310.55	3	3	1	2436.85
000448365 LINER POWER, MODIFIED (CYLINDER LINER G18-9-7)	O G EA	B X	20070323355875000005880A	STO	PS	20483.88 27311.84	4	4	1	6827.96
Warehouse Total for counts printed:										2545.44
for ALL counts:										2545.44

04-03-07 to 05-01-07

```
Req.By: ALIBIN,MAY-ANNE A                    MAUI ELECTRIC COMPANY, LTD.                    Page:          1
Run on: 05/01/07  at: 13:36:05                                                              Report:      MSR17BA
                                          OWNED STOCK TAKE COUNT TRANSACTIONS                Version:   5.2.37.004

Report Parameters:  Request Userid: MALIBIN
                    Requested on:   05/01/07  at: 13:26:46

                    Report Controls:

                    Selection Criteria:
                                    Transaction Id From
                                                   To
                                    Tolerance Amount    0000001
                                    Tolerance Percent   001
                                    Suppress Zero Qty.  Y

                    Sort Order:
                                    ASCENDING   dstrct-code
                                    ASCENDING   whouse-id-a
                                    ASCENDING   tran-amount
                                    ASCENDING   stock-code-a
Possible Reference made to Historical Transactions
```

Transaction Types selected for this Report

STO Owned Stock Count Adjustment

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse KPP KAHULUI POWER SUPPLY											
000529503 G G EA RELAY, K/X AUXILIARY BREAKERS KAHULUI 2 - 4			C Z	20070404353565000002297A	STO	PS	1513.65 0.00	0	0	1-	1513.65-
000616912 G G EA ASSEMBLY, CELL, ZIRCONIA SENSOR FOR O2 ANALYZER MODEL #Z021D-6-064-A U/CV KAHULUI 1 - 4			C Z	20070501346276300005682A	STO	PS	1447.82 723.91	1	1	1-	723.91-
000521641 G G ST PACKING K-2 FEEDWATER SYSTEM GENERAL MAINTENANCE			D Z	20070425368928300003F2FA	STO	PS	140.38 0.00	0	0	2-	140.38-
000614498 G G EA SWITCH, PRESSURE PNEUMATIC CONTROLS			D Z	20070418333904100005411A	STO	PS MC	117.75 0.00	0	0	1-	117.75-
000519967 G G EA MAGNETIC PICK-UP, DIGITAL, 1200 OHMS + - 20% 400MH, 10 IN/SEC, 50 RPM 60T 16 D.P., REF. GEAR K1 - 2 - 3 - 4			D Z	20070411335411900002BBFA	STO	PS MC	77.08 38.54	1	1	1-	38.54-
000614792 G G EA BRUSH, BRASS, BRISTLE WIRE TO CLEAN BURNER TYPS, SPRAY PLUGS, AND BURNER CAPS. KAHULUI 1, 2, 3, 4			C Z	20070404353567100002297A	STO	PS	197.34 188.37	21	21	1-	8.97-
000614554 G G EA SWITCH LIMIT K-1 BOILER			D Z	20070411335409000002BBFA	STO	PS MC	0.00 0.00	3	3	1	0.00
Warehouse Total for counts printed: for ALL counts:											2543.20- 2543.20-

Req.By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 6
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000474502 VALVE FUEL INJECTION - COMPLETE M-10 & M-11 (FUEL INJ VALVE 105)	O G	EA	B X	20070425535493100002 19FA	STO	PS	19045.00 17580.00	12	12	1-	1465.00-
000420422 CAPSCREW FREE ASSEMBLY CONNECTING ROD 003-003 POWER CYLINDER	O G	EA	D Z	20070418451550600006 D07A	STO	PS	397.68 0.00	0	0	2-	397.68-
000495721 COIL A.C. OPERATING (RADIATOR M303)	G G	EA	D Z	20070424456805100004 86FA	STO	PS	738.17 369.09	2	2	2-	369.08-
000539403 BELT DAYCO / COMPRESSED AIR PACKAGE (INGERSOL-RAND PUMP)	G G	EA	D Z	20070414342522200006 91BA	STO	PS	668.54 445.69	8	8	4-	222.85-
000487686 L.O. LINE W/ STEEL JIC ADPT #2024-2-4 (L.O. PIPING 811)	G G	ST	C Z	20070406521228000002 28AA	STO	PS	873.62 679.48	7	7	2-	194.14-
000479527 SPRING F.I. PUMP, M-10 (F.O. INJ PUMP 511)	G G	EA	D Z	20070406521747400002 28AA	STO	PS	127.92 0.00	0	0	1-	127.92-
000421024 ORING CYLINDER (POWER CYLINDER 003)	G G	EA	C Z	20070410559009100005 CC9A	STO	PS	354.56 246.53	89	89	39-	108.03-
000552943 GASKET *KLINGERIT 1000* (HP LABYR. PACKING ASSY)	G G	EA	D Z	20070412619615200006 A44A	STO	PS	100.88 0.00	0	0	1-	100.88-

Req.By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 7
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000555623 G G EA SLEEVE L.O. PURIFIER (MAB103B)			D Z	20070414342519800006 91BA	STO	PS	864.88 768.78	8	8	1-	96.10-
000556720 G G EA ORING F.O. PURIFIER (MAB206S-24)			C Z	2007041338017090000 7CEAA	STO	PS	1426.41 1369.35	24	24	1-	57.06-
000479584 G G EA ORING F.I. PUMP D501219K & D502304K-2 M10 - 13 (F.O. INJ PUMP 511)			C Y	2007042445683410000486FA	STO	PS	3034.40 2979.23	54	54	1-	55.17-
000536789 G G EA FUSE 20A, 250V (SWITCHGEAR)			D Z	2007042742919260000 5B2AA	STO	PS	49.60 0.00	0	0	10-	49.60-
000450684 G G EA BUTTON PUSH ROD (FUEL INJECTOR LSV 14-19)			D Z	2007040652122400000228AA	STO	PS	819.22 788.88	26	26	1-	30.34-
000421727 G G EA ORING VALVE COVER (CAMSHAFT-VALVE TRAIN 004)			C Z	2007041161468320000 6A4DA	STO	PS	150.15 121.55	85	85	20-	28.60-
000421883 G G EA ORING VALVE COVER (CAMSHAFT-VALVE TRAIN 004)			C Z	2007041161468790000 6A4DA	STO	PS	149.76 124.80	60	60	12-	24.96-
000552224 G G EA NUT HEX, M60X4, H*D (CASING TURBINE ASSY)			D Z	2007041261961460000 6A44A	STO	PS	46.18 23.09	1	1	1-	23.09-

Req.By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 8
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY										
000427187 O G EA GASKET COOLING WATER ELBOW (COOLING SYSTEM 010)		D Z	20070423499064100007A93A	STO	PS	51.49 29.73	56	56	41-	21.76-
000561167 G G EA GASKET SEAL (L.O.) MOQ: 15 (L.O. FILTERS B-955)		D Z	20070413380162900007CEAA	STO	PS	30.80 10.27	0	0	10-	20.53-
000425207 O G EA GASKET INJECTION PUMP (FUEL OIL SYSTEM 009)		C Z	20070423485179100007A93A	STO	PS	272.29 254.00	125	125	9-	18.29-
000427161 G G EA GASKET COOLING WATER ELBOW (COOLING SYSTEM 010)		C Z	20070423499062300007A93A	STO	PS	27.05 12.18	9	9	11-	14.87-
000556480 G G EA GASKET L.O. PURIFIER (MAB103B)		C Z	20070410559015500005CC9A	STO	PS	29.64 19.76	4	4	2-	9.88-
000446443 G G EA CAPSCREW 1/8-16 X 1" (TURBOCHARGER ET24-1-3)		D Z	20070406521225100002288AA	STO	PS	42.12 32.76	14	14	4-	9.36-
000555789 G G EA PACKING OIL DRAIN (MAB103B)		D Z	20070417608255300001414A	STO	PS	9.69 5.54	4	4	3-	4.15-
000542449 G G EA ROD PUSH (BLACK START DIESEL)		D Z	20070414342521100006918A	STO	PS	8.24 4.12	2	2	2-	4.12-

Req By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 9
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000447102 LOCKWASHER STAR (CONN. ROD LSVB4-1)	G G	EA	D Z	20070406521226000002 28AA	STO	PS	22.31 20.96	31	31	2-	1.35-
000544320 PACKING PREFORMED FIG. 45 (TRANSFER GEAR-BOX SUB ASSY)	G G	EA	D Z	2007041055901740000 5CC9A	STO	PS	22.91 21.99	24	24	1-	0.92-
000555664 PIN L.O. PURIFIER (MAB103B)	G G	EA	D Z	2007041760825060000 1414A	STO	PS	20.82 20.02	25	25	1-	0.80-
000442723 GASKET INLET & OUT MAN. PIPE (WATER, LUBE OIL & F.O. EQUIP. C505)	G G	EA	D Z	2007041434251230000 691BA	STO	PS	10.15 9.86	34	34	1-	0.29-
000555565 PUMP SCREW (GENERATOR SPARES)	G G	EA	D Z	2007041055901310000 5CC9A	STO	PS	0.00 0.00	0	0	8-	0.00
000560268 GASKET OVAL DRUM (HRSG)	G G	EA	D Z	2007041845155690000 6D07A	STO	PS	0.00 0.00	16	16	12	0.00
000569244 SENSOR HIGH TEMPERATURE U/V SENSOR TUBE MODULE (DETRONICS) MODEL C7050	G G	EA	D Z	2007040938770400000 1174A	STO	PS MC	0.00 0.00	2	1	2-	0.00
000618496 REDUCER, TYPE "B", 3.40, FOR M13 F.O. CIRCULATING PUMP MAALAEA 13	G G	EA	D Z	2007041055900620000 5CC9A	STO	PS	0.00 0.00	0	0	1-	0.00

Req By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 10
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000626697 G G EA PIPE JOINT PIECE FOR NEEDLE VALVE VALVE GEAR ROCKER ARM, #1882510 MITS 811E INCL: #116 & 113 MAALAEA 10 - 13			D Z	20070424456812900004 86FA	STO PS	MC	0.00 0.00	1	1	2-	0.00
000626705 G G EA NUT/NIPPLE, VALVE GEAR ROCKER ARM #1882510, MITS 811E INCL: 811E-117-3 & 811E-113 MAALAEA 10 - 13			D Z	20070424456832400004 86FA	STO PS	MC	0.00 0.00	4	4	5-	0.00
000634923 G G EA COUPLING MAALAEA 10 - 11				20070404594534000007 FDCA	STO PS	MC	0.00 0.00	2	2	2	0.00
000634931 G G EA VALVE, RELIEF (COMPRESSOR HEAD) MAALAEA 4 - 5 - 6 - 7 - 8 - 9				20070403435470900002 814A	STO PS	MC	0.00 0.00	1	1	1	0.00
000635169 G G EA PACKING EXHAUST ELBOW, GS12629 MAALAEA 10 - 11				20070501417036500002 FC5A	STO PS	MC	0.00 0.00	4	4	4	0.00
000449348 G G EA ELBOW CYLINDER HEAD (CYLINDER HEAD LSV 11-8)			C Z	20070406521220500002 28AA	STO PS		20.43 27.24	4	4	1	6.81
000504506 G G EA ORING STARTING DEVICE (SOLENOID VALVE M-961)			C Z	20070414342516100006 91BA	STO PS		46.25 55.50	48	48	8	9.25
000445163 G G EA BRUSH CARBON, 2 X 1-1/2 X 1/2 (A.C. SYNCH. GEN C3328MU)			C Z	20070410559010300005 CC9A	STO PS		187.41 208.23	30	30	3	20.82

Req By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 11
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C L	S T	UOI	AB CD	X YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY													
000552208 WASHER SPECIAL M56 (CASING TURBINE ASSY)	G	G	EA	D	Z	20070412619613400006A44A	STO	PS	23.09 46.18	2	2	1	23.09
000550764 WASHER INSULATION (GENERATOR SPARES)	G	G	EA	D	Z	20070419575675700003F69A	STO	PS	1037.40 1064.00	40	40	1	26.60
000445726 CARTRIDGE CARTRIDGE, TURBO (FILTERS) 12 per box	G	G	EA	C	Z	20070424411231400004 86FA	STO	PS	538.80 567.16	40	40	2	28.36
000537688 DISCHARGE FLEX. HOSE (FIRE PROTECTION SYS)	G	G	EA	D	Z	20070411614689400006A4DA	STO	PS	0.00 42.63	1	1	1	42.63
000536763 FUSE 10A, 250V (SWITCHGEAR)	G	G	EA	D	Z	20070427429191200005B2AA	STO	PS	0.00 49.60	10	10	10	49.60
000614288 LAMP, OILY WATER WASTE SEPARATOR/CT FO PURIFIER PANEL W-7 DEMIN PUMP INDICATION	O	G	EA	C	Z	20070404421545900007 8B6A	STO	PS	164.68 219.57	40	40	10	54.89
000486860 BOLT SPECIAL, BRG CASING, FIG. 10 (TURBOCHARGER 761)	G	G	EA	D	Z	20070406521747900002 28AA	STO	PS	793.19 881.32	30	30	3	88.13
000479501 BOLT F.O. PUMP, M-10 (F.O. INJ PUMP 511)	G	G	EA	C	Z	20070406521229000002 28AA	STO	PS	92.19 184.37	2	2	1	92.18

Req.By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 12
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY										
000558528 G G EA SEAL KIT ISOLATION VALVE 72" (ISOLATION BUTTERFLY VALVE)		D Z	20070413380169600007CEAA	STO	PS	100.36 200.72	2	2	1	100.36
000559995 G G EA CAGE, 21K 1.5-2 FOR MASONNEILAN DRESSER CONTROL VALVE MAALAEA UNITS 14 & 16		D Z	20070413380159500007CEAA	STO	PS MC	295.82 443.73	3	3	1	147.91
000556241 G G EA DISC BOTTOM (MAB103B)		D Z	20070417608256200001414A	STO	PS	1737.67 1895.64	12	12	1	157.97
000556803 G G EA DISC GRAVITY, 108.5MM (MAB206S-24)		C Z	20070419575670600003F69A	STO	PS	346.84 520.26	3	3	1	173.42
000552406 G G EA GASKET SPIRAL WOUND (CASING TURBINE ASSY)		C Z	20070412619600800006A44A	STO	PS	0.00 183.04	4	4	4	183.04
000494740 G G EA RELAY OVERLOAD (THERMAL), SIZE 4 3 POLE (ICW M303 & M305)		D Z	20070424456757700000486FA	STO	PS	186.28 372.57	2	2	1	186.29
000552067 G G EA SCREW PAN HD (CASING TURBINE ASSY)		D Z	20070412619604800006A44A	STO	PS	610.02 813.36	24	24	6	203.34
000443325 G G EA ELEMENT FILTER 6-1/2 IN, MAIN L.O. (LUBE OIL FILTER C955MU) 4 per box		C Z	20070424411226700000486FA	STO	PS	1081.09 1297.31	52	52	10	216.22

Req.By: ALIBIN,MAY-ANNE A
Run on: 05/01/07 at: 13:36:05

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 13
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000558502 SWITCH TORQUE (ISOLATION BUTTERFLY VALVE)	G G	EA	D Z	20070413380167900007CEAA	STO	PS	507.82 761.73	3	3	1	253.91
000539783 BELT BROWNING, 5 PER (VENTILATION SYS)	G G	EA	D Z	20070427429187800005B2AA	STO	PS	68.25 341.25	5	5	4	273.00
000558569 PACKING GRAPHOIL (ISOLATION BUTTERFLY VALVE)	G G	EA	D Z	20070418451554800006D07A	STO	PS	56.16 393.12	7	7	6	336.96
000462846 VALVE CHECK, 2" (AIR COMPRESSOR LSV 48-116)	G G	EA	C Z	20070413380166200007CEAA	STO	PS	0.00 441.31	3	1	1	441.31
000483180 PACKING F.O. PUMP, INLET 29X22 t=2 (F.O. PUMP 877)	G G	EA	D Z	20070406521226600002 28AA	STO	PS	280.34 798.95	57	57	37	518.61
000425124 HOLDER ASSY NOZZLE (FUEL OIL SYSTEM 009)	G G	EA	C Y	20070423485174000007A93A	STO	PS	6886.74 7575.41	11	11	1	688.67
Warehouse Total for counts printed:											866.55
for ALL counts:											866.55

05-02-07 to 06-01-07

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 1
Report: MSR17BA
Version: 5.2.37.004

Report Parameters: Request Userid: MALIBIN
Requested on: 06/01/07 at: 08:17:09

Report Controls:

Selection Criteria:
Transaction Id From
To
Tolerance Amount 0000001
Tolerance Percent 001
Suppress Zero Qty. Y

Sort Order:
ASCENDING dstrct-code
ASCENDING whouse-id-a
ASCENDING tran-amount
ASCENDING stock-code-a

Possible Reference made to Historical Transactions

Transaction Types selected for this Report

STO Owned Stock Count Adjustment

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.

OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 4
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After S.O.H.	Count	Adjustment Quantity	Transaction Value
Warehouse KPP KAHULUI POWER SUPPLY											
000518548 SWITCH, W-2 MOTOR CONTROL CENTER KAHULUI 3 ELECTRICAL MAINTENANCE	G G	EA	C Z	20070502326904000005EC3A	STO	PS	466.23 233.12	1	1	1-	233.11-
Warehouse Total for counts printed:											233.11-
for ALL counts:											233.11-

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 5
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MOPP MOLOKAI PRODUCTION											
000560920 FILTER LUBE OIL, (5 PER) HANA, MOLOKAI 3, 4, 5, 6 CUMMINS, KTA50, FLEETGUARD	G G	EA	C Z	20070502398482600006B12A	STO	PS	1517.67 1017.95	59	9	27-	499.72-
000560946 FILTER L.O. BY-PASS, (2 PER) HANA, MOLOKAI 3, 4, 5, 6 CUMMINS, KTA50, FLEETGUARD	G G	EA	C Z	20070502398479500006B12A	STO	PS	794.81 607.79	40	8	12-	187.02-
Warehouse Total for counts printed:											686.74-
for ALL counts:											686.74-

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 6
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY										
000536847 X G EA SWITCH PRESSURE, 50-250 PSIG (CONTROL SYS) *also stk #540724*	C Z	2007052548659380000	4DDCA	STO	PS	590.97 0.00	0	0	3-	590.97-
000476663 G G EA ORING CYLINDER LINER, D501125K M-10 (CYLINDER LINER 20S)	C Y	2007050457292510000	381AA	STO	PS	4280.62 4098.47	90	90	4-	182.15-
000541284 G G EA HOSE ASSY MNFLD BLOCK/PUMP DSCHG, 1-1/4" X 34 (TURBINE HYDRAULIC SYS)	D Z	2007053053555480000	37B0A	STO	PS	305.26 152.63	1	1	1-	152.63-
000561944 G G EA BRUSH FLAT (C3250 MCC)	C Z	2007050156199950000	2FC5A	STO	PS	282.06 141.04	0	0	20-	141.02-
000609040 G G EA ELEMENT OIL FILTER - IR HOUSE COMPRESSOR EP-75	D Z	2007050244276580000	541EA	STO	PS MC	224.87 112.43	2	1	1-	112.44-
000558163 X G EA HUB GERBING (GEARBOX)	C Z	2007053141893740000	5E75A	STO	PS	77.88 0.00	0	0	2-	77.88-
000561969 G G EA BRUSH EXCITER (C325C MCC)	C Z	2007050156201040000	2FC5A	STO	PS	102.84 51.42	0	0	8-	51.42-
000550186 G G EA COMPRESSOR ZINC R.O. ACID SKID (WATER TREATMENT)	D Z	2007050855320740000	6B53A	STO	PS	50.04 0.00	0	0	4-	50.04-

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 7
Report: MSR17BA
Version: 5.2.37.004

Warehouse MPP MAALAEA POWER SUPPLY

Stck Cde/ Name/Desc	C S L T UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
000512541 O G FT TUBING, SS 316 STAINLESS, 1/4" OD	C Z	2007051053014210000021B3A		STO	PS	286.14 247.28	70	70	11-	38.86-
000541789 G G EA ORING VITON, ORH-239 (DUPLEX FILTER ASM)	C Z	2007050361761330000 3CHCA		STO	PS	94.35 56.61	6	3	2-	37.74-
000512004 G G EA GAUGE WIKA, 100 PSI/LQ (GAUGES)	C Z	2007051053014850000021B3A		STO	PS	832.48 800.46	23	25	1-	32.02-
000487223 G G EA PLATE LOCK, GAS INLET CASING, FIG. 11 (TURBOCHARGER 762)	C Z	2007050457292700000381AA		STO	PS	1192.15 1164.43	42	42	1-	27.72-
000421701 G G EA PLATE COVER, R.A., UPPER (CAMSHAFT-VALVE TRAIN 004	C Z	2007050533486940000048B5A		STO	PS	350.40 323.45	10	12	1-	26.95-
000477562 G G EA ORING PISTON, D501695R (PISTON 401)	C Z	2007050457292620000381AA		STO	PS	2304.77 2277.97	85	85	1-	26.80-
000549261 G G EA SEAL GASKET 3" VICTAULIC (WATER TREATMENT)	D Z	2007050457325800000381AA		STO	PS	171.35 151.19	13	15	2-	20.16-
000430207 X G EA BEARING LUBE OIL SYSTEM	D Z	2007053141893850000 5E75A		STO	PS	17.94 0.00	0	0	2-	17.94-

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 8
Report: MSR17BA
Version: 5.2.37.004

Warehouse MPP MAALAEA POWER SUPPLY

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
000558189 SPIDER GERRING (GEARBOX)	G G	EA	C Z	20070531418936800005E75A	STO	PS	82.44 67.46	9	9	2-	14.98-
000560045 GASKET SPIRAL WOUND 1.5" 900/1500# (HRSG)	G G	EA	C Z	20070505334872200004 8B5A	STO	PS	394.49 381.56	59	59	2-	12.93-
000490664 SEAL OIL, TC19328 (VALVE GEAR L.O. PUMP M208)	G G	EA	C Z	20070529568686500004646A	STO	PS	39.49 32.31	9	9	2-	7.18-
000487603 ORING COOLING WATER, OUTLET & DRAIN PIPE (C.W.PIPING) 810	G G	EA	C Z	20070518341193600001CD9A	STO	PS	24.90 20.37	72	72	16-	4.53-
000538546 SEAL DIESEL OIL TRANSFER PUMP, 1.125" (INTERGOL-RAND PUMP)	G G	EA	D Z	20070514365673800000A6EDA	STO	PS	0.00 0.00	1	1	1-	0.00
000538561 SCREW PHILLIPS - COMPRESSOR "A" (INGERSOL-RAND PUMP)	G G	EA	D Z	20070514365677900000A6EDA	STO	PS	0.00 0.00	11	11	1-	0.00
000540724 SWITCH LOW FUEL PRESSURE, 50 - 250 PSIG (LIQUID FUEL/WATER INJ PUMP)	G G	EA	D Z	20070525486595300004DDCA	STO	PS	0.00 0.00	5	5	3	0.00
000558064 COUPLING/SPIDER G500X1-1/4HUB,G500X1-3/8HUB,G500SPIDER (AIR COOLED CONDENSER)	G G	EA	D Z	20070531418931900005E75A	STO	PS	0.00 0.00	7	7	1	0.00

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 9
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C L	S T	UOI	AB CD	X YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY													
000618926 BOLT, STUD, COOLING WATER IN CYLINDER COVER, (Metric & Multistandard 10 x 35 OAL 47; short end=1.25 x diameter - 1.5 pitch (coarse) End Stud. MAALAEA 10 - 13	G	G	EA		D Z	20070516339522700004 3BAA	STO	PS	0.00 0.00	62	12	2	0.00
000634543 VALVE, PRESSURE RELIEF MAALAEA 14 - 16	G	G	EA			20070521418452800006 ABEA	STO	PS MC	0.00 0.00	1	1	1	0.00
000468926 ORING SAFETY SHUT DOWN CONTROL LSV 72-29	G	G	EA		D Z	20070518341196100001 CD9A	STO	PS	2.14 5.94	25	25	16	3.80
000507368 RING SNAP, EXTERNAL (P&H OVERHEAD CRANE)	G	G	EA		D Z	20070504572923300003 81AA	STO	PS	62.22 67.88	12	12	1	5.66
000541987 ORING VITON, ORH-908 (DUPLEX FILTER ASM)	G	G	EA		D Z	20070505334879400004 8B5A	STO	PS	57.24 63.60	20	20	2	6.36
000556647 ORING F.O. PURIFIER (MAB206S-24)	G	G	EA		C Z	20070505334873700004 8B5A	STO	PS	192.16 200.90	21	23	1	8.74
000483155 GASKET, 3-WAY MAGNET VALVE MITSUBISHI MAN 3-WAY VALVE, START/STOP/SHUTDOWN DEVICE, NS-645D-2, DWG. MST000298. FOR MAALAEA UNITS 10, 11, 12, & 13	G	G	EA		D Z	20070516339519200004 3BAA	STO	PS	20.83 31.25	6	6	2	10.42
000547364 BELT DAYCO VOL VII (AIR X-CHANGER)	G	G	EA		C Z	20070504572929500003 81AA	STO	PS	65.40 76.30	7	7	1	10.90

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 10
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After S.O.H.	Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000504209 ORING ENG. SHUTDOWN EMERGENCY 3 WAY MAGNET VALVE (SOLENOID VALVE M-961)	G G	EA	C Z	20070504572918300003 81AA	STO	PS	43.16 57.55	24	24	6	14.39
000538942 FILTER OIL - COMPRESSED AIR (INGERSOL-RAND PUMP)	G G	EA	C Z	20070517523755900002B68A	STO	PS	107.09 122.39	8	8	1	15.30
000424580 MBO STEEL ADAPTER ROCKER, LUBE OIL HEADER, 90 DEGREE *(LUBE OIL SYSTEM 008)*	G G	EA	D Z	20070523427284300006370A	STO	PS	31.32 46.98	6	6	2	15.66
000487264 PLATE LOCK, GAS INLET CASING, FIG. 11 (TURBOCHARGER 762)	G G	EA	C Z	20070504572928000003 81AA	STO	PS	476.77 494.43	28	28	1	17.66
000548925 VALVE SUCTION (MILTON ROY PUMP)	G G	EA	D Z	20070514365660600006EDA	STO	PS	0.00 18.44	1	1	1	18.44
000430181 BEARING LUBE OIL SYSTEM	G G	EA	C Z	20070531418939000005E75A	STO	PS	21.17 42.34	4	4	2	21.17
000614287 LAMP, WOODWARD DIGITAL CONTROL PANEL CT UNIT	O G	EA	D Z	20070524325516700004 8E5A	STO	PS MC	28.64 52.08	40	100	45	23.44
000424044 GASKET CORRUGATED METAL, STYLE 900 7-11/16" OD X 6-5/8" ID X 1/16" THK (INTAKE/EXHAUST 007)	G G	EA	C Z	20070524491544100004 31DA	STO	PS	1517.01 1547.97	100	100	2	30.96

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 11
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current S.O.H.	SOH After Count	Adjustment Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000548983 CHECK ASSY INJECTION (MILTON ROY PUMP)	G G	EA	D Z	20070514365648900000A6EDA	STO	PS	0.00 34.38	1	1	1	34.38
000422964 ORING INTAKE & EXHAUST (CYLINDER HEAD 006)	G G	EA	C Z	20070501562019100002FC5A	STO	PS	7.31 66.94	55	55	49	59.63
000549626 VALVE BALL 3/4" (WATER TREATMENT)	G G	EA	D Z	20070517523748600002B6BA	STO	PS	760.62 869.28	8	8	1	108.66
000609040 ELEMENT OIL FILTER - IR HOUSE COMPRESSOR EP-75	G G	EA	D Z	20070502446507500007DD4A	STO	PS MC	112.43 224.87	2	2	1	112.44
000479527 SPRING F.I. PUMP, M-10 (F.O. INJ PUMP 511)	G G	EA	D Z	20070515324734300007 63FA	STO	PS	0.00 127.92	1	1	1	127.92
000538520 SEAL W/SLEEVE F.W. PUMP (INGERSOL-RAND PUMP)	G G	EA	D Z	20070514365669700 00A6EDA	STO	PS	791.62 949.94	6	6	1	158.32
000557389 POTENTIOMETER ELECTRICAL	G G	EA	D Z	20070524491581100004 31DA	STO	PS	161.61 323.22	2	2	1	161.61
000444406 LOCK ASSY MAINTENANCE DOOR (CARBODY B2507MU)	G G	EA	D Z	20070516339515000004 3BAA	STO	PS	173.13 346.26	2	2	1	173.13

Req.By: ALIBIN,MAY-ANNE A
Run on: 06/01/07 at: 08:17:12

MAUI ELECTRIC COMPANY, LTD.
OWNED STOCK TAKE COUNT TRANSACTIONS

Page: 12
Report: MSR17BA
Version: 5.2.37.004

Stck Cde/ Name/Desc	C S L T	UOI	AB X CD YZ	Transaction Id.	Tran Typ	----STOCK----- ---SECTIONS---	Invent Val Before/ --After & Bin Loc--	Current SOH After Adjustment S.O.H.	Count	Quantity	Transaction Value
Warehouse MPP MAALAEA POWER SUPPLY											
000433508 WELL THERMOSTAT, BRASS 3-1/2" ALLEN BRADLEY (C.T./P.T. CABINET)	G G	EA	D Z	20070524491567300000431DA	STO	PS	1143.18 1351.03	13	13	2	207.85
000470187 BLOCK VALVE-FUEL INJ. Z-14-1-3	G G	EA	D Y	20070503617608300003CBCA	STO	PS	3643.80 3858.14	18	18	1	214.34
000187364 TAPE, E FUSING, RED, 2.5" X .030" X 36".	G G	EA	C Z	20070511498254700003 3AEA	STO	TD	2852.21 3630.08	27	27	12	777.87
000465641 HOUSING BALL BRG. HOUSING (OIL PURIFIER WHPX 510)	G G	EA	C Z	20070521353657300005904A	STO	PS	1000.54 2001.07	2	2	1	1000.53
000612002 JOINT COUPLING UNIT FLEX PIPE, I/C SYSTEM	G G	EA	D Z	20070503617611600003CBCA	STO	PS MC	2955.02 4535.61	66	66	23	1580.59
000557421 THERMOCOUPLE 10 FT. W/INTEGRAL CABLE (ELECTRICAL)	G G	EA	D Z	20070509546054300007364A	STO	PS	2022.61 4045.22	2	2	1	2022.61
000508085 DISC PARING, W/PIPE (L.O. PURIFIER WHPX 410)	G G	EA	D Z	20070530506662600005E09A	STO	PS	2998.75 5997.50	2	2	1	2998.75
Warehouse Total for counts printed: for ALL counts:											8315.17 8315.17

2007

MATERIAL INVENTORY SYSTEM - OBSOLETE ITEMS

Obsolete work order: FI000258

STOCK CODE	MECO #	QTY	DESCRIPTION	UNIT COST	VALUE	ISSUE #	value w/oncost
449660	35457	5	Valve, premium intake w/stellite #6	$316.11	$1,580.55	H05707	$ 1,764.53
477943	41041	0	Piston ring #4	$ -	$0.00		$ -
490383	42542	0	Oring, TC LO priming pump	$ -	$0.00		$ -
537761	70407	1	Flame Detector	$ 5,720.00	$5,720.00	D05747	$ 6,385.81
474742	40246	16	Fuel Injector valve spring	$ 44.80	$716.85	H05762	$ 800.29
424747	30805	9	spring, nozzle injection	$ 34.48	$310.34	R05797	$ 346.46
453985	36118	2	pressure regulator	$ 123.60	$247.20	W05867	$ 275.97
482505	41523	9	sleeve	$ 131.78	$1,186.06	G05818	$ 1,324.12
498683	44313	0	eye plate	$ -	$0.00		$ -
482489	41522	0	cap nut, pump side	$ -	$0.00		$ -
482521	41524	0	fuel injection pipe	$ -	$0.00		$ -
482588	41527	0	bellow tube	$ -	$0.00		$ -
503524	44904	1	bearing, shield ball	$ 75.49	$75.49	E05765	$ 84 28
503540	44905	1	bearing, shield ball	$ 57.10	$57.10	E05765	$ 63.75
548024	74414	0	seal, roto-jet	$ -	$0.00		$ -
547646	74113	0	pipe, column	$ -	$0.00		$ -
541722	72405	1	coupling, pump, mechanical	$ 301.95	$301.95	E05808	$ 337.10
538660	71003	1	seal, mechical, John Crane	$ 299.20	$299.20	A06048	$ 334.03
430769	31600	1	ball bearing, 5305F	$ 78.82	$78.82	R05926	$ 87.99
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
					$0.00		
				total	$10,573.56		$11,804.33

CA-IR-91

Ref: MECO T-5, page 2, lines 15 to 17 –(Management of Power Supply).

a. Please confirm that Production Department budget comparisons and variance analyses are prepared on a monthly basis and put into a monthly report to Mr. Reinhardt (as stated in interview).

b. Please provide complete copies of all of the monthly reports to Mr. Reinhardt that were prepared in 2006 and 2007, to date.

MECO Response:

a. As stated in the interview, the Production Department budget comparisons and variance analyses are prepared on a monthly basis and put into a monthly report to Mr. Reinhardt.

b. Please refer to CA-IR-91 Attachments 1 through 16 for the monthly reports relating to Production Department budget comparisons and variance analyses that were submitted to Mr. Reinhardt in 2006 and 2007, to date.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - JANUARY 2006

FUEL OIL VARIANCE: $ 6,598,800 87.55%
BBLS (1,056) -0.59%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	48,024	29.22	1,403,305		45,039	54.58	2,458,134
MPP	122,505	45.64	5,591,100		123,415	86.13	10,629,970
LPP	4,141	63.35	262,300		5,066	104.35	528,672
MOL	5,444	51.54	280,600		5,537	93.79	519,328
CHP	-		-		0	#DIV/0!	0
TOTAL	180,114		7,537,305		179,058		14,136,104

	VARIANCE	
	BBLS	TOTAL
KPP	(2,985)	1,054,829
MPP	910	$5,038,870
LPP	926	$266,372
MOL	93	$238,728
CHP	-	-
TOTAL	(1,056)	6,598,799

EXPLANATION:

1. Sales .43% below forecast on Maui.
2. Sales 7.04% above forecast on Lanai.
3. Sales 3.11% above forecast on Molokai.
4. KPP fuel price 86.77% above forecast.
5. MPP fuel price 88.72% above forecast.
6. LPP fuel price 64.73% above forecast.
7. MOL fuel price 81.96% above forecast.

OPERATION VARIANCE: $ 33,800 4.26%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,403,305	1,668,322	265,017		2,458,134	2,760,360	302,226
MPP	5,591,100	6,003,896	412,796		10,629,970	11,049,754	419,784
LPP	262,300	313,921	51,621		528,672	581,828	53,156
MOL	280,600	337,441	56,841		519,328	570,812	51,484
PPA			8,046				1,457
Ovhd Adj.							
TOTAL			794,321				828,107

	OPER VARIANCE
KPP	37,209
MPP	6,988
LPP	1,535
MOL	(5,357)
PPA	(6,589)
Ovhd Adj.	-
TOTAL	33,786

EXPLANATION:

1. **KPP:** HECO Lab 2005 & 06, **$10K** LO-1 budgeted qtrly, **$16K**
2. **KPP:** Reclass employee benefits, **<$18K>** offset by more MGK labor than budgeted,**$29K**
3. **MPP:** None
4. **LPP:** None
5. **MOL:** Source testing and environ.l svc budgeted evenly throughout yr-no expense in Jan, **<$4K>**
6. **PPA:**Legal & HECO evaluate/negotiate contract budgeted evenly throughout yr-no expense in Jan, **<$7K>**

MAINTENANCE VARIANCE: $ (174,600) -27.15%

	FCST	ACTUAL	VARIANCE
KPP	185,056	153,373	(31,683)
MPP	436,776	258,029	(178,747)
LPP	10,231	42,137	31,906
MOL	11,034	14,941	3,907
Ovhd Adj.			-
TOTAL	643,097	468,480	(174,617)

EXPLANATION:

1. KPP: K1 Overhaul cancelled,<$168K> K3 vaccume leak, check glad seal, condensate pump repair, $27K
2. KPP: Fuel line consortium maintenance, $45K Reclass empkoyee benefits, $21K
3. KPP: Common area electrical and maintenace, $27K
4. MPP: M04 Lock-N-Stitch repair crankshaft, coupling & flywheel, $47K & Misc common area maint, $43K
5. MPP: M08 Overhaul was cancelled, <$396K>
6. MPP: M09 Cylinder repair and high temp repair, $25K & M06 exhaust valve burnt & head gasket leak,$17K
7. M11 Turbocharger repair,$17K & M12 Recon cylinder heads/valves 2005-OH and high cyl temps, $41K
8. LPP: LL7 3 injectors, $7K LL8 Elliott Co repair Woodward actuator, $9K additional MGE labor for repairs, $16K

PURCHASE POWER VARIANCE: $ 622,700 99.33%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	5,332,000	475,700	7,007,200	1,150,237
HC&S Capacity	-	151,200	-	99,406
	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND	-	-	-	-
TOTAL	5,332,000	626,900	7,007,200	1,249,643

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,675,200	674,537
HC&S Capacity	-	(51,794)
HC&S Purchased Power	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	1,675,200	622,743

2006	HC&S AVOIDED COST $/KWH		
1st Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.1695	0.1144
OFF-PEAK	0.0513	0.1545	0.1032

EXPLANATION:

1. $55,907 posted in Jan for 2006 for liquid damages. (HC&S capacity)

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,055	14,053	(2)	-0.01%
MPP	9,115	9,400	285	3.13%
LPP	10,025	11,427	1,402	13.99%
MOL	10,004	9,984	(20)	-0.20%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	99,150,000	98,725,115	(424,885)	-0.43%
LANAI	2,303,500	2,465,697	162,197	7.04%
MOLOKAI	2,899,100	2,989,166	90,066	3.11%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	21,526,000	20,191,820	(1,334,180)	-6.20%
MPP	78,759,000	76,933,923	(1,825,077)	-2.32%
Maui Total	*100,285,000*	*97,125,743*	*(3,159,257)*	*-3.15%*
LPP	2,420,300	2,597,952	177,652	7.34%
MOL	3,188,900	3,250,050	61,150	1.92%

EXPLANATION:

1. KPP:
2. MPP:
3. LPP:
4. MOL:

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - FEBRUARY 2006

FUEL OIL VARIANCE: $ 4,726,900 69.13%
BBLS (5,931) -3.64%

	FORECAST			ACTUAL		
	BBLS	COST	TOTAL	BBLS	COST	TOTAL
KPP	42,742	29.22	1,249,105	42,000	54.03	2,269,378
MPP	111,477	45.64	5,087,800	105,842	79.76	8,441,887
LPP	3,748	63.35	237,404	4,352	97.59	424,749
MOL	5,108	51.54	263,282	4,949	86.58	428,512
TOTAL	163,075		6,837,591	157,144		11,564,526

	VARIANCE	
	BBLS	TOTAL
KPP	(742)	$1,020,273
MPP	(5,635)	$3,354,087
LPP	605	$187,345
MOL	(159)	$165,230
TOTAL	(5,931)	$4,726,935

EXPLANATION:

1. Sales 3.39% below forecast on Maui.
2. Sales 1.07% above forecast on Lanai.
3. Sales 3.44% below forecast on Molokai.
4. KPP fuel price 84.9% above forecast.
5. MPP fuel price 74.8% above forecast.
6. LPP fuel price 54.1% above forecast
7. MOL fuel price 68.0% above forecast.

OPERATION VARIANCE: $ (22,700) -3.01%

	FORECAST			ACTUAL		
	FUEL	TOTAL	OPER	FUEL	TOTAL	OPER
KPP	1,249,105	1,504,251	255,146	2,269,378	2,552,190	282,812
MPP	5,087,800	5,478,326	390,526	8,441,887	8,790,199	348,312
LPP	237,404	285,496	48,092	424,749	474,586	49,837
MOL	263,282	316,655	53,373	428,512	478,267	49,755
PPA			7,622			1,361
Ovhd Adj.						
TOTAL			754,759			732,077

	OPER VARIANCE
KPP	27,666
MPP	(42,214)
LPP	1,745
MOL	(3,618)
PPA	(6,261)
Ovhd Adj.	-
TOTAL	(22,682)

EXPLANATION:

1. KPP: LO-1 purchased in Feb, budgeted quarterly, **$16K**
2. KPP: Water budgeted every other month, **$9K**
3. MPP:CEMS Maint. budgeted evenly throughout year, no charges in Feb, **<$20K>**
4. MPP.Nox water & wastewater chemicals and emission fees less than budgeted, **<$18K>**

MAINTENANCE VARIANCE: $ (88,100) -13.40%

	FCST	ACTUAL	VARIANCE
KPP	125,052	114,173	(10,879)
MPP	510,504	423,269	(87,235)
LPP	10 231	22,451	12,220
MOL	11,800	9,622	(2,178)
Ovhd Adj.			-
TOTAL	657,587	569,515	(88,072)

EXPLANATION:

1. KPP: K1 Overhaul started Feb 14th budgeted to start Jan 31st, <$44K>
2. KPP: Arisumi Bros.-replace expansion joint hatch cover, $19K
3. KPP: K3 clean evaporator and K4 repair steam lube oil pump, $15K
4. MPP: M04 Lock-N-Stitch & Washinton Iron Works, Mat'l & Lbr to repair crankshaft coupling, $163K
5. MPP: M06 Fuel tip nozzle assy, $19K & M08 cylinder high temps, $20K offset by M08 overhaul cancelled, <$42K>
6. MPP: M09 cyl high temp, $29K & M10 Crankpin bearing failed, replaced turbocharger lube oil, jacket water leak, $30K
7. MPP: M11 overhaul delayed, <$447K> partically offset by M11 maint, $17K
8. MPP: M12 Foundation bolt set & tensioners and recond cyl heads/valves from 2005 OH, $43K
9. MPP: Reclass employee benfits, $19K & other corr/prev maintenace on units, $62K
10. LPP: L08 overhaul started in February along with crankshaft replacement, OH budgeted in Aug ,$15K

PURCHASE POWER VARIANCE: $ 668,900 92.75%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	6,390,000	570,100	7,551,000	1,240,286
HC&S Capacity	-	151,100	-	149,803
	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND	-	-	-	-
TOTAL	6,390,000	721,200	7,551,000	1,390,089

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,161,000	670,186
HC&S Capacity	-	(1,297)
HC&S Purchased Power	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	1,161,000	668,889

2006	HC&S AVOIDED COST $/KWH		
1st. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.1695	0.1144
OFF-PEAK	0 0513	0.1545	0.1032

EXPLANATION:

1.
2.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,236	14,330	94	0.66%
MPP	9,242	9,385	143	1.55%
LPP	10,025	11,469	1,444	14.40%
MOL	10,004	10,004	-	0.00%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	90,113,000	87,059,761	(3,053,239)	-3.39%
LANAI	2,084,800	2,107,061	22,261	1.07%
MOLOKAI	2,720,400	2,626,863	(93,537)	-3.44%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	18,915,000	18,465,160	(449,840)	-2.38%
MPP	*70,685,000*	*66,085,190*	*(4,599,810)*	*-6.51%*
Maui Total	89,600,000	84,550,350	(5,049,650)	-5.64%
LPP	2,190,600	2,223,695	33,095	1.51%
MOL	2,992,300	2,899,100	(93,200)	-3.11%

EXPLANATION:

1. **KPP:**
2. **MPP**
3. **LPP:**
4. **MOL:**

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - MARCH 2006

FUEL OIL VARIANCE: $ 6,260,800 83.0%
BBLS (542) -0.3%

	FORECAST			ACTUAL		
	BBLS	COST	TOTAL	BBLS	COST	TOTAL
KPP	53,353	29.22	1,558,905	46,528	53.77	2,501,645
MPP	118,844	45.64	5,424,000	125,194	82.97	10,387,413
LPP	4,194	63.36	265,700	4,263	100.28	427,466
MOL	5,651	51.55	291,300	5,515	87.80	484,221
TOTAL	182,042		7,539,905	181,500		13,800,745

	VARIANCE	
	BBLS	TOTAL
KPP	(6,825)	$942,740
MPP	6,350	$4,963,413
LPP	69	$161,766
MOL	(136)	$192,921
TOTAL	(542)	$6,260,840

EXPLANATION:

1. Sales .13% below forecast on Maui.
2. Sales 5.40 above forecast on Lanai.
3. Sales 3.14% below forecast on Molokai.
4. KPP fuel price 84.0% above forecast.
5. MPP fuel price 81.8% above forecast.
6. LPP fuel price 58.3% above forecast.
7. MOL fuel price 70.3% above forecast.

OPERATION VARIANCE: $ (2,400) -0.3%

	FORECAST			ACTUAL		
	FUEL	TOTAL	OPER	FUEL	TOTAL	OPER
KPP	1,558,905	1,886,807	327,902	2,501,645	2,857,136	355,491
MPP	5,424,000	5,850,080	426,080	10,387,413	10,810,624	423,211
LPP	265,700	328,528	62,828	427,466	478,176	50,710
MOL	291,300	352,452	61,152	484,221	537,364	53,143
PPA			7,620			600
Ovhd Adj.						
TOTAL			885,582			883,155

	OPER VARIANCE
KPP	27,589
MPP	(2,869)
LPP	(12,118)
MOL	(8,009)
PPA	(7,020)
Ovhd Adj.	-
TOTAL	(2,427)

EXPLANATION:

1. **KPP:** Jim Clary & Assoc. KPP air permit services 2005, **$25K**
2. **MPP:** Shaw Environmental M12/13 dry well abandment services, **$30K**
3. **MPP:** 2005 emission fee accrual adjustment to actual expense, **<$29K>**
4. **LPP:** Source testing budgeted for Mar to May, **<$9K>**
5. **MOL:** 2005 emission fee acrual adjustment to actual expense, **<$3K>**

MAINTENANCE VARIANCE: $ 246,700 32.5%

	FCST	ACTUAL	VARIANCE
KPP	140,488	172,452	31,964
MPP	592,892	465,638	(127,254)
LPP	13,916	348,554	334,638
MOL	11,085	18,455	7,370
Ovhd Adj.			-
TOTAL	758,381	1,005,099	246,718

EXPLANATION:

1. **KPP:** *N01* Overhaul start delayed, **<$21K>**
2. **KPP:** *N03* maint; PRV's, condensor repair ,**$26K** & *N04* less general maintenance than budgdted, **<$14K>**
3. **KPP:** *M15* one vacuum pump radiator, **$41K**
4. **MPP:** *M04* Mezco to align and balnace, **$18K** & *M06* Internal water leak on #4 cylinder and lube oil pump, **$12K**
5. **MPP:** *M08* Overhaul cancelled plus maint., **<$35>**
6. **MPP:** *M10* Repair of exhaust valves(2004 OH), **$39K**
7. **MPP:** *M11* M11 overhaul delayed(timing) , **<$366K>**
8. **MPP:** *M12* Mainly foundation and frame repairs, **$117K**
9. **MPP:** *M14* 2 transducers for major overhaul and prev. maint., **$42K**
10. **MPP:** *M19* GE Global Controls-repair VSV actuator, **$13K**
11. **MPP:** Reclass employee benefits, **$24K**
12. **LPP:** *L08* Crankshaft repair, **$330K**
13. **MOL:** *G09* expansion joint, **$7K**

PURCHASE POWER VARIANCE: $ 798,000 102.02%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,074,000	631,000	8,652,600	1,422,309
HC&S Capacity	-	151,200	-	157,848
	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND	-	-	-	-
TOTAL	7,074,000	782,200	8,652,600	1,580,157

	VARIANCE	
	KWH	COST
MAUI		
HC&S	1,578,600	791,309
HC&S Capacity	-	6,648
HC&S Purchased Power	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	1,578,600	797,957

2006	HC&S AVOIDED COST $/KWH		
1st. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.1695	0.1144
OFF-PEAK	0.0513	0.1545	0.1032

EXPLANATION:

1.
2.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,258	14,434	176	1.23%
MPP	9,166	10,576	1,410	15.38%
LPP	10,025	9,960	(65)	-0.65%
MOL	10,004	10,023	19	0.19%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	100,103,000	99,973,483	(129,517)	-0.13%
LANAI	2,333,100	2,459,133	126,033	5.40%
MOLOKAI	3,009,400	2,914,835	(94,565)	-3.14%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	23,575,000	20,308,660	(3,266,340)	-13.86%
MPP	75,983,000	76,772,623	789,623	1.04%
Maui Total	99,558,000	97,081,283	(2,476,717)	-2.49%
LPP	2,451,400	2,507,915	56,515	2.31%
MOL	3,310,200	3,224,325	(85,875)	-2.59%

EXPLANATION:

1. **KPP:**
2. **MPP:**
4. **LPP:**
5. **MOL:**
6. **Maui Sales:**

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - APRIL 2006

FUEL OIL VARIANCE: $ 6,326,900 87.1%
BBLS (1,549) -0.9%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	38,411	29.23	1,122,705		42,402	56.31	2,387,666
MPP	122,960	45.64	5,611,900		117,610	87.95	10,343,484
LPP	4,045	63.35	256,200		4,021	98.49	396,061
MOL	5,334	51.54	274,900		5,168	90.06	465,374
TOTAL	170,750		7,265,705		169,200		13,592,585

	VARIANCE	
	BBLS	TOTAL
KPP	3,991	$1,264,961
MPP	(5,350)	$4,731,584
LPP	(23)	$139,861
MOL	(167)	$190,474
TOTAL	(1,549)	$6,326,880

EXPLANATION:
1. Sales 3.63% below forecast on Maui
2. Sales .11% below forecast on Lanai.
3. Sales 1.57% below forecast on Molokai.
4. KPP fuel price 92.7% above forecast.
5. MPP fuel price 92.7% above forecast.
6. LPP fuel price 55.5% above forecast.
7. MOL fuel price 74.7% above forecast.

OPERATION VARIANCE: $ (25,200) -3.2%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,122,705	1,358,104	235,399		2,387,666	2,667,158	279,492
MPP	5,611,900	6,041,976	430,076		10,343,484	10,706,590	363,106
LPP	256,200	313,219	57,019		396,061	447,848	51,787
MOL	274,900	329,069	54,169		465,374	528,475	63,101
PPA			8,046				1,979
Ovhd Adj.							
TOTAL			784,709				759,465

	OPER VARIANCE
KPP	44,093
MPP	(66,970)
LPP	(5,232)
MOL	8,932
PPA	(6,067)
Ovhd Adj.	-
TOTAL	(25,244)

EXPLANATION:
1. KPP: Additional labor in operations at KPP than budgeted, $36K
2. KPP: Employee benefits reclassified, <$16K>
3. KPP: LO-1 fuel additive posted in April, budgeted qtrly, $16K (timing)
4. KPP: County water posted in April, budgeted every other month, $9K (timing)
5. MPP: Source testing for MPP budgeted for Apr-Jun, no pymnt in April, <$37>
6. MPP: Lube oil usage was less than budgeted, <$34K>
7. LPP: Source testing budgeted for Mar-May, <$6K>
8. MOL: Jim Clary svc in 2005, $8K

MAINTENANCE VARIANCE: $ 450,200 94.3%

	FCST	ACTUAL	VARIANCE
KPP	260,348	134,723	(125,625)
MPP	194,824	541,305	346,481
LPP	11,566	232,617	221,051
MOL	10,846	19,180	8,334
Ovhd Adj.			-
TOTAL	477,584	927,825	450,241

EXPLANATION:
1. KPP: M15 BFWP "B" failed, $31K
2. KPP: K1 Feedwater pump pressure low, $16K
3. KPP: K4 Overhaul delayed, <$290K> (timing)
4. KPP: Misc mech/elec maintenance on K1,K2 & K4;condensor and tube leak, breaker wiring, attend training, $62K
4. KPP: Reclass of employee benefits, $61K
5. MPP: M04 Replaced 2 cyl heads, high exhaust temps, $40K
6. MPP: M08 Overhaul cancelled, <$28K>
7. MPP: M10 Replaced #5cylinder liner, $27K
8. MPP: M11 Overhaul start was delayed, $307K (timing)
9. MPP: M12 Foundation repairs, $83K
10. MPP: M14 Fuel analysis, gear box repairs, thermocoupler, $56K
11. MPP: Less water treatment chemical than budgeted, <$15K> & less general maint due to overhaul shift, <$50K>
12. MPP: Reclass of employee benefits, <$51K>
13. LAN: LL8 overhaul budgeted mainly in Aug, $220K (timing)
14. MOL: Injectors for units 4 & 6, $8K

PURCHASE POWER VARIANCE: $ 945,400 122.19%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	6 846,000	622,500	9,061,200	1,555,790
HC&S Capacity	-	151,200	-	163,336
	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND	-	-	-	-
TOTAL	6,846,000	773,700	9,061,200	1,719,126

	VARIANCE	
	MWH	COST
MAUI		
HC&S	2,215,200	933,290
HC&S Capacity	-	12,136
HC&S Purchased Power	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	2,215,200	945,426

2008	HC&S AVOIDED COST $/KWH		
2nd. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0 0551	0.177	0.1219
OFF-PEAK	0 0513	0.1613	0.11

EXPLANATION:
1.
2.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,446	14,230	(216)	-1 50%
MPP	9,089	9,568	479	5 27%
LPP	10,025	9,994	(31)	-0 31%
MOL	10,004	10,060	56	0 56%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	96,574,000	93,072,627	(3,501,373)	-3 63%
LANAI	2,250,100	2,247,568	(2,532)	-0 11%
MOLOKAI	2,840,600	2,796,092	(44,508)	-1.57%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	16,751,000	18,772,070	2,021,070	12.07%
MPP	79,276,000	72,033,121	(7,242,879)	-9.14%
Maui Total	96,027,000	90,805,191	(5,221,809)	-5 44%
LPP	2,364,200	2,357,936	(6,264)	-0.26%
MOL	3,124,500	3,010,034	(114,466)	-3 66%

EXPLANATION:
1. **KPP:**
2. **MPP:**
3. **LPP:**
4. **MOL:**

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - MAY 2006

FUEL OIL VARIANCE: $ 7,554,000 111.1%
BBLS 10,845 6.6%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	48,044	29.22	1,403,905		46,198	57.12	2,638,979
MPP	105,603	45.64	4,819,700		118,394	90.66	10,733,929
LPP	4,361	63.36	276,300		4,659	102.34	476,756
MOL	5,848	51.54	301,400		5,449	92.80	505,632
CHP	0	0.00	0		0	0	0
TOTAL	163,855		6,801,305		174,700		14,355,296

	VARIANCE	
	BBLS	TOTAL
KPP	(1,846)	$1,235,074
MPP	12,791	$5,914,229
LPP	298	$200,456
MOL	(399)	$204,232
CHP	-	$0
TOTAL	$10,845	$7,553,991

EXPLANATION:

1. Sales 3.97% below forecast on Maui.
2. Sales 0.22% below forecast on Lanai.
3. Sales 8.89% below forecast on Molokai.
4. KPP fuel price 95.5% above forecast.
5. MPP fuel price 98.6% above forecast.
6. LPP fuel price 61.5% above forecast.
7. MOL fuel price 80.0% above forecast.

OPERATION VARIANCE: $ 32,200 3.6%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,403,905	1,692,381	288,476		2,638,979	2,923,810	284,831
MPP	4,819,700	5,282,133	462,433		10,733,929	11,221,204	487,275
LPP	276,300	339,429	63,129		476,756	544,278	67,522
MOL	301,400	362,056	60,656		505,632	575,007	69,375
PPA			7,717				5,647
Ovhd Adj.							
TOTAL			882,411				914,650

	OPER VARIANCE
KPP	(3,645)
MPP	24,842
LPP	4,393
MOL	8,719
PPA	(2,070)
Ovhd Adj.	-
TOTAL	32,239

EXPLANATION:

1. **KPP:** None
2. **MPP:** Lube oil useage higher than budgeted for month, **$24K**
3. **LPP:** Lube oil useage higher vs. budget due to LL7 OH, running EMD that use more, **$4K**
4. **MOL:** Source testing expense posted in May, budgeted monthly (timing), **$10K**

MAINTENANCE VARIANCE: $ 187,300 39.4%

	FCST	ACTUAL	VARIANCE
KPP	118,093	105,972	(12,121)
MPP	333,459	522,846	189,387
LPP	12,154	26,756	14,602
MOL	11,894	7,365	(4,529)
Ovhd Adj.			-
TOTAL	475,600	662,939	187,339

EXPLANATION:

1. **KPP:** *K1* #136 feedwater pump, #149 service water pump, **$29K**
2. **KPP:** Offset by less than budgeted general maintenance, **<$40K>**
3. **MPP:** *M11* Overhaul start was delayed, **$270K** (timing)
4. **MPP:** *M14* Gear box repairs, failed fan, idler shaft pump repair, **$29K**
5. **MPP:** *M12* Mitsubishi svc to recon piston crowns & hyd pump-2005 OH, **$29K**
6. **MPP:** *M8* Repair cylinder head bolt, **$26K**
7. **MPP:** Offset by less than budgeted general mainenance in other areas & less water treatment chemicals, **<$140K>**
8. **MPP:** Reclassification of employee benefits, **<$24K>**
9. **LPP:** Reconditioning of LL8 turbocharger (LL8 OH) & electrical, lighting, communication repairs to LL1, **$12K**

PURCHASE POWER VARIANCE: $ 121,700 7.16%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,074,000	643,300	9,685,800	1,660,014
HC&S Capacity	-	151,200	-	162,610
	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND	10,900,000	906,400	-	-
TOTAL	17,974,000	1,700,900	9,685,800	1,822,624

	VARIANCE	
	MWH	COST
MAUI		
HC&S	2,611,800	1,016,714
HC&S Capacity	-	11,410
HC&S Purchased Power	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	(906,400)	(906,400)
TOTAL	1,705,400	121,724

2006	HC&S AVOIDED COST $/KWH		
2nd. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.177	0.1219
OFF-PEAK	0.0513	0.1613	0.11

EXPLANATION:

1.
2.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,136	14,370	234	1.66%
MPP	9,030	9,430	400	4.43%
CHP	-	-	-	0.00%
LPP	10,025	10,698	673	6.71%
MOL	10,004	10,058	54	0.54%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	101,243,000	97,225,597	(4,017,403)	-3.97%
LANAI	2,426,000	2,420,580	(5,420)	-0.22%
MOLOKAI	3,114,100	2,837,395	(276,705)	-8.89%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	19,539,000	20,253,960	714,960	3.66%
MPP	65,977,000	73,574,545	7,597,545	11.52%
CHP	-	-	-	#DIV/0!
Maui Total	85,516,000	93,828,505	8,312,505	9.72%
LPP	2,549,100	2,551,894	2,794	0.11%
MOL	3,425,300	3,174,556	(250,744)	-7.32%

EXPLANATION:

1. **KPP:** Heatrate increase due to K3 down to adjust steam turbine rotor and steam seals. Not forecast.
2. **MPP:** Heatrate high due to M13 outage all year for engine repair and K3 coverage during maintenance. Also, generation higher than forecast because of anticipated wind energy was not online this month.
3. **LPP:** Unit#7 in overhaul, run less efficient EMD units
4. **MOL:**

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - JUNE 2006

FUEL OIL VARIANCE: $ 8,635,400 124.5%
BBLS 2,891 1.7%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	50,446	29.22	1,474,005		31,859	58.55	1,865,244
MPP	107,603	45.64	4,911,000		129,009	98.28	12,679,328
LPP	4,160	63.35	263,561		4,308	109.75	472,864
MOL	5,625	51.54	289,928		5,550	100.27	556,490
CHP	0	0.00	0		0	0.00	0
TOTAL	167,835		6,938,494		170,726		15,573,927

	VARIANCE	
	BBLS	TOTAL
KPP	(18,587)	$391,240
MPP	21,406	$7,768,328
LPP	148	$209,303
MOL	(76)	$266,562
CHP	-	$0
TOTAL	2,891	$8,635,432

EXPLANATION:

1. *Sales 0.88% below forecast on Maui.*
2. Sales .56% above forecast on Lanai.
3. Sales 2.30% below forecast on Molokai.
4. KPP fuel price 100.4% above forecast.
5. MPP fuel price 115.3% above forecast.
6. LPP fuel price 73.2% above forecast.
7. MOL fuel price 94.6% above forecast.
8.

OPERATION VARIANCE: $ (37,600) -4.3%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,474,005	1,786,350	312,345		1,865,244	2,120,594	255,350
MPP	4,911,000	5,357,561	446,561		12,679,328	13,140,792	461,464
LPP	263,561	315,099	51,538		472,864	525,280	52,416
MOL	289,928	347,640	57,712		556,490	614,740	58,250
PPA			7,622				10,681
Ovhd Adj.							
TOTAL			875,778				838,161

	OPER VARIANCE
KPP	(56,995)
MPP	14,903
LPP	878
MOL	538
PPA	3,059
Ovhd Adj.	-
TOTAL	(37,617)

EXPLANATION:

1. **KPP:** Fuel Additive budget qtrly, **<$38K>**
2. **KPP:** Emission fees less than budgeted, **<$5K>**
3. **KPP:** Less MGK labor than budgeted for month, **<$15K>**
4. **MPP:** LFR pymt for fuel leak clean up at MPP, **$12K**
5. **LPP:** None
6. **MOL:** None
7. **PPA:** HECO svc for Auwahi Wind Farm

MAINTENANCE VARIANCE: $ 215,600 32.9%

	FCST	ACTUAL	VARIANCE
KPP	461,585	340,354	(121,231)
MPP	173,023	503,318	330,295
LPP	10,231	21,157	10,926
MOL	10,897	6,490	(4,407)
Ovhd Adj.			-
TOTAL	655,736	871,319	215,583

EXPLANATION:

1. **KPP:** M15 HRSG & 6yr turbine OH delayed (timing) from Jun to Jul & retube 1st 2 rows boiler cancelled, **<$421K>**
2. **KPP:** K04 overhaul delayed until June, **$195K**
3. **KPP:** F.O. Consortium pipeline repair, **$104K**
4. **MPP:** M13 Overhaul start was delayed, **$344K**
5. **MPP:** M16 Major overhaul delayed, **<$31K>**
6. **MPP:** M09 jacket water repairs, **$20K**
7. **LPP:** L07 replace radiator motor, L01replace MW meter and electrical EMD repairs, purchase solvents, **$11K**

PURCHASE POWER VARIANCE: $ 391,200 21.03%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	6,846,000	622,500	8,199,000	1,406,544
HC&S Capacity	-	151,200	-	153,544
	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND	13,059,000	1,086,900	6,440,849	691,702
TOTAL	19,905,000	1,860,600	14,639,849	2,251,791

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,353,000	784,044
HC&S Capacity	-	2,344
HC&S Purchased Power	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	5,353,949	(395,198)
TOTAL	6,706,949	391,191

2006	HC&S AVOIDED COST $/KWH		
2nd. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.1770	0.1219
OFF-PEAK	0.0513	0.1613	0.1100

EXPLANATION:

1. Purchased more power from HC&S to help cover M13 outage.
2. Wind energy lower as windfarm came online later than forecast.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,256	14,428	172	1.21%
MPP	9,430	9,611	181	1.92%
LPP	10,025	10,170	145	1.45%
MOL	10,004	10,144	140	1.40%
CHP	-	-	-	#DIV/0!

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	102,386,000	101,484,862	(901,138)	-0.88%
LANAI	2,314,500	2,327,464	12,964	0.56%
MOLOKAI	2,995,700	2,926,661	(69,039)	-2.30%
CHP	-	-	-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	22,293,000	13,911,200	(8,381,800)	-37.60%
MPP	66,866,000	78,654,826	11,788,826	17.63%
CHP	-	-	-	#DIV/0!
Maui Total	89,159,000	92,566,026	3,407,026	3.82%
LPP	2,431,900	2,482,619	50,719	2.09%
MOL	3,295,100	3,205,955	(89,145)	-2.71%

EXPLANATION:

1. **KPP:** Heatrate higher than forecast due to delay of K4 overhaul to June.
2. **MPP:** Heatrate higher due to less efficient units running to cover M13 shortfall. Heatrate higher due to M15 overhaul and more generation to cover K4 overhaul. Heatrate higher due to carrying more regulating reserve to cover windfarm.
3. **LPP:** Heatrate higher due to EMDs running to cover higher sales.
4. **MOL:** Heatrate higher due to lower sales and CAT units running at lower loads.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - JULY 2006

FUEL OIL VARIANCE: $ 11,389,300 160.6%
BBLS 21,136 12.5%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	45,244	29.22	1,322,205		46,183	60.91	2,812,873
MPP	113,617	45.64	5,185,500		134,117	108.41	14,540,304
LPP	4,375	63.34	277,100		4,155	113.25	470,535
MOL	5,998	51.53	309,100		5,914	111.51	659,470
CHP	-	0.00	0		0	0	0
TOTAL	169,234		7,093,905		190,369		18,483,182

	VARIANCE	
	BBLS	TOTAL
KPP	939	$1,490,668
MPP	20,500	$9,354,804
LPP	(220)	$193,435
MOL	(84)	350,370
CHP	-	-
TOTAL	21,136	$11,389,277

EXPLANATION:

1. Sales .73% below forecast on Maui.
2. Sales 3.67% below forecast on Lanai.
3. Sales 3.42% below forecast on Molokai.
4. KPP fuel price 108.4% above forecast.
5. *MPP fuel price 137.5% above forecast.*
6. LPP fuel price 78.8% above forecast.
7. MOL fuel price 116.4% above forecast.

OPERATION VARIANCE: $ 55,100 7.2%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,322,205	1,575,045	252,840		2,812,873	3,098,506	285,633
MPP	5,185,500	5,585,067	399,567		14,540,304	14,969,250	428,946
LPP	277,100	327,811	50,711		470,535	518,290	47,755
MOL	309,100	366,339	57,239		659,470	716,609	57,139
PPA			7,999				4,029
Ovhd Adj.							
TOTAL			768,356				823,502

	OPER VARIANCE
KPP	32,793
MPP	29,379
LPP	(2,956)
MOL	(100)
PPA	(3,970)
Ovhd Adj.	-
TOTAL	55,146

EXPLANATION:

1. **KPP:** Fuel additive budget qtrly, **$16K**
2. **KPP:** More MGK labor than budgeted for month, **$17K**
3. **MPP:** Water treatment chemicals,**$36K**
   MPP: Lube oil, **$19K**
   MPP: CEMS maintenance budgeted for July, no postings, **<$20K>**
   LPP: None
   MOL: None
   PPA: None

MAINTENANCE VARIANCE: $ (202,700) -19.2%

	FCST	ACTUAL	VARIANCE
KPP	544,691	289,023	(255,668)
MPP	185,423	195,663	10,240
LPP	313,779	357,903	44,124
MOL	12,681	11,333	(1,348)
Ovhd Adj.			-
TOTAL	1,056,574	853,922	(202,652)

EXPLANATION:

1. **KPP: M15** HRSG & 6yr turbine OH delayed (timing) from Jun to Jul & retube 1st 2 rows boiler cancelled, **<$102K>**
2. **KPP: K2** overhaul cancelled, **<$258K>** & K4 overhaul cost (Banaksy, etc), **$38K**
3. KPP: **K4** Repair soot blower line and forced draft fan, **$21K** & Repair of 8" fuel line, **$25K**
4. **MPP: M11** Recond cylinder valves (OH) and repair exhaust leak and exhaust valve cap, **$45K**
5. **MPP: M14 & M16** Clean and test nozzles **offset** by less maintenance on other units vs. budget
6. **MPP:** Less water treatment chemical than budgeted, **<$29K>**
7. **LPP: LL7** Overhaul more than budgeted, **$11K**
8. **LPP: LL1-6** replaced generator collector rings, **$23K** & main fuel oil filers (18), **$7K**

PURCHASE POWER VARIANCE: $ 1,375,700 71.13%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,074,000	630,300	8,350,200	1,707,905
HC&S Capacity	-	151,200	-	152,024
WIND, KAHEAWA	13,969,000	1,152,600	12,402,765	1,449,885
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND				
TOTAL	21,043,000	1,934,100	20,752,965	3,309,813

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,276,200	1,077,605
HC&S Capacity	-	824
HC&S Purchased Power	-	-
WIND, KAHEAWA	(1,566,235)	297,285
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	(290,035)	1,375,713

2006	HC&S AVOIDED COST $/KWH		
3rd. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.2111	0.1560
OFF-PEAK	0.0513	0.1921	0.1408

EXPLANATION:

1. Less purchase power from wind energy than forecast but avoided cost higher than forecast.
2. Avoided cost higher than forecast by approx. $0.09 per KWH.
3.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,016	14,343	327	2.33%
MPP	9,058	10,834	1,776	19.61%
LPP	10,025	10,099	74	0.74%
MOL	10,004	10,169	165	1.65%
CHP	8,794	-	(8,794)	-100.00%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	107,846,000	107,058,059	(787,941)	-0.73%
LANAI	2,433,600	2,344,225	(89,375)	-3.67%
MOLOKAI	3,194,200	3,085,106	(109,094)	-3.42%
CHP	-		-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	20,337,000	20,285,190	(51,810)	-0.25%
MPP	73,500,000	72,542,207	(957,793)	-1.30%
CHP	-	-	-	#DIV/0!
Maui Total	93,837,000	92,827,397	(1,009,603)	-1.08%
LPP	2,557,000	2,410,857	(146,143)	-5.72%
MOL	3,513,400	3,408,090	(105,310)	-3.00%

EXPLANATION:

1. **KPP:** *K2 overhaul deferred. Unit ran all month which increased station heatrate.*
2. **MPP:** M15 overhaul delayed into July. CTs in simple cycle the whole month.
   M13 down for extended repairs.
   Additional regulating reserves carried for windfarm deviations.
3. **LPP:** No explanation needed.
4. **MOL:** No explanation needed.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - AUGUST 2006

FUEL OIL VARIANCE: $ 9,804,500 129.4%
BBLS 3,593 2.0%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	51,259	29.22	1,497,805		48,693	58.76	2,861,061
MPP	120,042	45.64	5,478,700		126,139	105.78	13,343,493
LPP	4,583	63.34	290,300		4,677	110.54	516,947
MOL	6,073	51.54	313,000		6,041	109.73	662,860
CHP	-	0.00	0		0	0	0
TOTAL	181,957		7,579,805		185,549		17,384,361

	VARIANCE	
	BBLS	TOTAL
KPP	(2,566)	1,363,256
MPP	6,097	$7,864,793
LPP	94	$226,647
MOL	(32)	349,860
CHP	-	-
TOTAL	3,593	$9,804,556

EXPLANATION:

1. Sales .20% above forecast on Maui.
2. Sales 3.30% above forecast on Lanai.
3. Sales 2.20% below forecast on Molokai.
4. KPP fuel price 101.1% above forecast.
5. MPP fuel price 131.8% above forecast.
6. LPP fuel price 74.5% above forecast.
7. MOL fuel price 112.9% above forecast.

OPERATION VARIANCE: $ 85,110 10.3%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,497,805	1,785,972	288,167		2,861,061	3,193,385	332,324
MPP	5,478,700	5,896,248	417,548		13,343,493	13,812,603	469,110
LPP	290,300	345,076	54,776		516,947	567,285	50,338
MOL	313,000	372,624	59,624		662,860	718,400	55,540
PPA			7,622				5,535
Ovhd Adj.							
TOTAL			827,737				912,847

	OPER VARIANCE
KPP	44,157
MPP	51,562
LPP	(4,438)
MOL	(4,084)
PPA	(2,087)
Ovhd Adj.	-
TOTAL	85,110

EXPLANATION:

1. **KPP:** L01 Fuel additive, **$16k**
2. **KPP:** Operations labor more than budgeted due to training of new Operator Helpers (2). **$29k**
3. **MPP:** Mainly for lube oil, **$51k**

LPP: None

MOL: None

PPA: None

MAINTENANCE VARIANCE: $ (27,824) -4.0%

	FCST	ACTUAL	VARIANCE
KPP	124,048	258,816	134,768
MPP	245,326	299,695	54,369
LPP	317,049	20,374	(296,675)
MOL	11,800	91,514	79,714
Ovhd Adj.			-
TOTAL	698,223	670,399	(27,824)

EXPLANATION:

1. *KPP: K4 boilers repair,* **$38k**
2. **KPP:** F.O. consortium pipeline maintenance work, repair corroded section, **$41k**
3. **KPP: M15** 6-Year turbine overhaul pushed through August due to OH delayed from June to July, **$74k**
4. **MPP: M09** Major overhaul started 8/23/06 but budgeted to start 9/25/06, **$32k**
5. **MPP: M10** Forced maintenance for #6 cylinder piston seizure, **$35k**
6. **MPP: M14** Outage to change engine, **$18k** and **M17** hydraulic starter oil line replacement, **$17k**
7. **MPP:** More labor costs budgeted for the month, **<$61k>**
8. **LPP; L08** Overhaul was earlier than the original schedule date **<$302k>**
9. **MOL:** P07 Turbo charger failure due to problem with a bearing, **$82k**

PURCHASE POWER VARIANCE: $ 1,586,400 96.21%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,074,000	630,300	8,503,200	1,742,220
HC&S Capacity	-	151,200	-	163,587
WIND, KAHEAWA	10,552,000	867,400	11,356,214	1,329,578
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND				
TOTAL	17,626,000	1,648,900	19,859,414	3,235,386

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,429,200	1,111,920
HC&S Capacity	-	12,387
HC&S Purchased Power	-	-
WIND, KAHEAWA	804,214	462,178
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	2,233,414	1,586,486

2006	HC&S AVOIDED COST $/KWH		
3rd. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.2111	0.1560
OFF-PEAK	0.0513	0.1921	0.1408

EXPLANATION:

1. Purchased more power from HC&S and wind energy than forecast.
2. More wind energy into system.
3. Avoided cost higher than forecast due to fuel pricing.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,250	14,415	165	1.16%
MPP	9,077	9,708	631	6.95%
LPP	10,025	9,990	(35)	-0.35%
MOL	10,004	10,218	214	2.14%
CHP	-	-	-	#DIV/0!

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	110,576,000	110,794,819	218,819	0.20%
LANAI	2,549,500	2,633,633	84,133	3.30%
MOLOKAI	3,233,900	3,162,825	(71,075)	-2.20%
CHP	-		-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	22,662,000	21,281,010	(1,380,990)	-6.09%
MPP	77,500,000	76,142,981	(1,357,019)	-1.75%
CHP	-	-	-	#DIV/0!
Maui Total	100,162,000	97,423,991	(2,738,009)	-2.73%
LPP	2,678,900	2,743,296	64,396	2.40%
MOL	3,557,100	3,464,395	(92,705)	-2.61%

EXPLANATION:

1. **KPP:** High due to running of K2 continuously, instead of being cycled off.
2. **MPP:** High due to higher regulating reserve for wind energy but lower than reforecast heatrate.
   M17 OTSG tied in so carrying lower load to preserve boiler life by maintaining exhaust temp. below 1,000 °F.
3. **LPP:** *Lower due to more sales then forecast with units running at more efficient load.*
4. **MOL:** High due to lower sales and unit Cat7 out week and a half for turbo failure and engine repairs.
   Cat8 out one week with cable problems from generator J-Box to generator circuit breaker.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - SEPTEMBER 2006

FUEL OIL VARIANCE: $ 8,999,000 131.8%
BBLS 15,938 10.0%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	32,502	29.24	950,205		48,356	58.90	2,848,101
MPP	116,226	45.64	5,304,600		116,471	101.88	11,866,443
LPP	4,252	63.36	269,400		4,280	113.14	484,259
MOL	5,928	51.54	305,500		5,739	109.76	629,914
CHP	-	0.00	0		0	0	0
TOTAL	158,908		6,829,705		174,846		15,828,717

	VARIANCE	
	BBLS	TOTAL
KPP	15,854	1,897,896
MPP	245	$6,561,843
LPP	28	$214,859
MOL	(189)	324,414
CHP	-	-
TOTAL	15,938	$8,999,012

EXPLANATION:

1. Sales 0.20% above forecast on Maui.
2. Sales 3.30% above forecast on Lanai.
3. Sales 2.20% below forecast on Molokai.
4. KPP fuel price 101.5% above forecast.
5. MPP fuel price 123.2% above forecast.
6. LPP fuel price 78.6% above forecast.
7. MOL fuel price 113.0% above forecast.

OPERATION VARIANCE: $ 39,700 4.9%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	950,205	1,253,272	303,067		2,848,101	3,150,450	302,349
MPP	5,304,600	5,704,096	399,496		11,866,443	12,296,084	429,641
LPP	269,400	320,143	50,743		484,259	535,179	50,920
MOL	305,500	361,987	56,487		629,914	681,713	51,799
PPA			7,622				22,425
Ovhd Adj.							
TOTAL			817,415				857,134

	OPER VARIANCE
KPP	(718)
MPP	30,145
LPP	177
MOL	(4,688)
PPA	14,803
Ovhd Adj.	-
TOTAL	39,719

EXPLANATION:

1. **KPP:** More costs budgeted for this month for L01 Fuel additive, **<$22k>**
2. **KPP:** Tabletop training costs, **$22K**
3. **MPP:** Lube oil dispensing for Mobil, EMD and C.T. Units, **$21k**

LPP: None

MOL: Emission fees, **<$7k>**

PPA: Wind energy development services for Auwahi Wind Farm, **$15k**

MAINTENANCE VARIANCE: $ 708,000 107.0%

	FCST	ACTUAL	VARIANCE
KPP	389,415	131,269	(258,146)
MPP	251,315	1,219,014	967,699
LPP	10,189	10,804	615
MOL	10,897	8,823	(2,074)
Ovhd Adj.			-
TOTAL	661,816	1,369,910	708,094

EXPLANATION:

1. **KPP:** Berm wall repair rescheduled for 2007; funds used to repair fuel lines in Pier 1 & 3, **<$125k>**
2. **KPP:** Delay in overhaul schedule for K3; originally scheduled for 9/18-10/13, **<$125K>**
3. **KPP:** M15 6-Year turbine overhaul delay, **<$45K>**
4. **KPP:** K4 outage due to condenser leakage, **$14k**
5. **MPP:** M9 Overhaul continues but budgeted to start 9/25/06, **192K**
6. **MPP:** Hot section overhaul, used funding for 2006 M16 major overhaul which was delayed for 2007, **$829k**
7. **LPP:** None
8. ***MOL:*** None

PURCHASE POWER VARIANCE: $ 1,219,000 74.32%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	6,846,000	610,000	8,118,000	1,660,324
HC&S Capacity	-	151,200	-	151,124
WIND, KAHEAWA	10,656,000	879,100	8,961,457	1,045,554
HYDRO, MAKILA	-	-	*14,012*	*2,854*
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND				
TOTAL	17,502,000	1,640,300	17,093,469	2,859,856

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,272,000	1,050,324
HC&S Capacity	-	(76)
HC&S Purchased Power	-	-
WIND, KAHEAWA	(1,694,543)	166,454
HYDRO, MAKILA	14,012	2,854
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	(408,531)	1,219,556

2006	HC&S AVOIDED COST $/KWH		
3rd. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.2111	0.1560
OFF-PEAK	0.0513	0.1921	0.1408

EXPLANATION:

1. Purchased more power from HC&S and wind energy than forecast.
2. More wind energy into system.
3. Avoided cost higher than forecast due to fuel pricing.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,250	14,415	165	1.16%
MPP	9,077	9,708	631	6.95%
LPP	10,025	9,990	(35)	-0.35%
MOL	10,004	10,218	214	2.14%
CHP	-	-	-	#DIV/0!

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	110,576,000	110,794,819	218,819	0.20%
LANAI	2,549,500	2,633,633	84,133	3.30%
MOLOKAI	3,233,900	3,162,825	(71,075)	-2.20%
CHP	-		-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	22,662,000	21,281,010	(1,380,990)	-6.09%
MPP	77,500,000	76,142,981	(1,357,019)	-1.75%
CHP	-	-	-	#DIV/0!
Maui Total	100,162,000	97,423,991	(2,738,009)	-2.73%
LPP	2,678,900	2,743,296	64,396	2.40%
MOL	3,557,100	3,464,395	(92,705)	-2.61%

EXPLANATION:

1. **KPP:** No explanation needed.
2. **MPP:** High due to keeping a higher regulating reserve for wind energy.
   Regulating M17&M19 CT outputs to conduct steam blows on M18 steam piping.
   M17 & 19 OTSG tied in so carrying lower load to preserve boiler life by maintaining exhaust temp. below 1,000 °F.
3. **LPP:** No explanation needed.
4. **MOL:** High due to lower sales.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - OCTOBER 2006

FUEL OIL VARIANCE: $ 10,811,650 153.0%
BBLS 23,577 14.3%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	34,486	29.23	1,008,105		42,139	59.11	2,490,721
MPP	120,018	45.64	5,477,600		135,903	104.90	14,255,887
LPP	4,404	63.35	279,000		4,531	114.13	517,090
MOL	5,890	51.54	303,600		5,804	106.19	616,255
CHP	-	0.00	0		0	0	0
TOTAL	164,799		7,068,305		188,376		17,879,954

	VARIANCE	
	BBLS	TOTAL
KPP	7,653	1,482,616
MPP	15,885	$8,778,287
LPP	126	$238,090
MOL	(87)	312,655
CHP	-	-
TOTAL	23,577	$10,811,649

EXPLANATION:

1. Sales 0.61% above forecast on Maui.
2. Sales 2.31% above forecast on Lanai.
3. Sales 2.97% below forecast on Molokai.
4. KPP fuel price 102.2% above forecast.
5. MPP fuel price 129.8% above forecast.
6. LPP fuel price 80.2% above forecast.
7. *MOL fuel price 106.0% above forecast.*

OPERATION VARIANCE: $ 21,562 2.7%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,008,105	1,272,572	264,467		2,490,721	2,780,408	289,687
MPP	5,477,600	5,892,086	414,486		14,255,887	14,657,265	401,378
LPP	279,000	330,316	51,316		517,090	575,576	58,486
MOL	303,600	360,775	57,175		616,255	679,060	62,805
PPA			8,046				4,696
Ovhd Adj.							
TOTAL			795,490				817,052

	OPER VARIANCE
KPP	25,220
MPP	(13,108)
LPP	7,170
MOL	5,630
PPA	(3,350)
Ovhd Adj.	-
TOTAL	21,562

EXPLANATION:

1. **KPP:** Mainly due to purchase of HRSG chemicals and chemicals for boilers, **$15k**
2. **KPP:** Tabletop training costs, **$9k** and County water services, **$10k**
3. **KPP:** More costs budgeted this month for custodial and security services, **<$10k>**
4. **MPP:** More costs budgeted this month for developing and maintaining polices & procedures, **<$36k>**
5. **MPP:** Cooling water chemicals for M1-M13, **$21k**
6. **LPP:** None
7. **MOL:** Lube Oil, **$8k**
8. ***PPA:*** *None*

MAINTENANCE VARIANCE: $ (2,397,080) -81.0%

	FCST	ACTUAL	VARIANCE
KPP	191,511	219,281	27,770
MPP	2,747,578	313,642	(2,433,936)
LPP	10,231	12,497	2,266
MOL	10,846	17,666	6,820
Ovhd Adj.			-
TOTAL	2,960,166	563,086	(2,397,080)

EXPLANATION:

1. **KPP:** K2 unit overhaul originally budgeted for August 2006, **$175k**
2. **KPP:** K3 unit overhaul moved to 2007; was budgeted for 9/18-10/13, **<$103k>**
3. **MPP:** M16 unit overhaul moved to 2007, **<$2,519k>**
4. **MPP:** M09 unit overhaul schedule extended to Dec. 22, 2006, **$117k**
5. **MPP:** M10 unit overhaul schedule moved to 11/06/06-1/12/07, **<89k>**
6. **LPP:** None
7. **MOL:** G08 unit cylinder head failure, **$8k**

PURCHASE POWER VARIANCE: $ 406,402 24.34%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,074,000	648,000	7,340,400	1,432,601
HC&S Capacity	-	151,200	-	149,728
WIND, KAHEAWA	10,444,000	870,600	4,275,616	488,077
HYDRO, MAKILA	-	-	29,850	5,797
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND				
TOTAL	17,518,000	1,669,800	11,645,866	2,076,202

	VARIANCE	
	MWH	COST
MAUI		
HC&S	266,400	784,601
HC&S Capacity		(1,472)
HC&S Purchased Power	-	-
WIND, KAHEAWA	(6,168,384)	(382,523)
HYDRO, MAKILA	29,850	5,797
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	(5,872,134)	406,402

2006	HC&S AVOIDED COST $/KWH		
4th. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.2017	0.1466
OFF-PEAK	0.0513	0.1835	0.1322

EXPLANATION:

1. Purchased more power from HC&S and wind energy than forecast.
2. More wind energy into system.
3. Avoided cost higher than forecast due to fuel pricing.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	14,070	14,345	275	1.95%
MPP	8,676	9,748	1,072	12.36%
LPP	10,025	10,122	97	0.97%
MOL	10,004	10,115	111	1.11%
CHP	-	-	-	#DIV/0!

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	107,038,000	107,695,805	657,805	0.61%
LANAI	2,450,200	2,506,770	56,570	2.31%
MOLOKAI	3,136,900	3,043,863	(93,037)	-2.97%
CHP	-		-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	15,442,000	18,506,980	3,064,980	19.85%
MPP	81,059,000	81,700,728	641,728	0.79%
CHP	-	-	-	#DIV/0!
Maui Total	96,501,000	100,207,708	3,706,708	3.84%
LPP	2,574,500	2,622,827	48,327	1.88%
MOL	3,450,400	3,362,265	(88,135)	-2.55%

EXPLANATION:

1. **KPP:** K2 down for overhaul. More power generated with K3&4 kept heatrate up.
2. **MPP:** High due to keeping a higher regulating reserve for wind energy. Regulating M17&M19 CT outputs to conduct M18 startup testing.
3. **LPP:** No explanation needed.
4. **MOL:** High due to lower sales than forecast.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - NOVEMBER 2006

FUEL OIL VARIANCE: $ 8,900,160 134.6%
BBLS 18,968 12.2%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	34,545	29.18	1,008,105		38,643	55.74	2,165,203
MPP	110,821	45.64	5,057,900		125,379	98.14	12,305,082
LPP	4,104	63.36	260,000		4,357	110.20	480,152
MOL	5,577	51.54	287,400		5,436	103.60	563,129
CHP	-	0.00	0		0	0	0
TOTAL	155,046		6,613,405		174,014		15,513,565

	VARIANCE	
	BBLS	TOTAL
KPP	4,298	$1,157,098
MPP	14,558	$7,247,182
LPP	253	$220,152
MOL	(141)	$275,729
CHP	-	-
TOTAL	18,968	$8,900,160

EXPLANATION:

1. Sales 1.65% below forecast on Maui.
2. Sales 6.65% above forecast on Lanai.
3. Sales 3.53% below forecast on Molokai.
4. KPP fuel price 91.0% above forecast.
5. MPP fuel price 115.0% above forecast.
6. LPP fuel price 73.9% above forecast.
7. MOL fuel price 101.0% above forecast.
8. Also, Maui heatrates higher due to explanations below.

OPERATION VARIANCE: $ 12,247 1.5%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,008,105	1,292,751	284,646		2,165,203	2,463,450	298,247
MPP	5,057,900	5,464,290	406,390		12,305,082	12,700,615	395,533
LPP	260,000	310,792	50,792		480,152	534,895	54,743
MOL	287,400	343,263	55,863		563,129	622,138	59,009
PPA			7,622				10,028
Ovhd Adj.							
TOTAL			805,313				817,560

	OPER VARIANCE
KPP	13,601
MPP	(10,857)
LPP	3,951
MOL	3,146
PPA	2,406
Ovhd Adj.	-
TOTAL	12,247

EXPLANATION:

1. **KPP:** KPP LO-1 Fuel additive not budgeted this month; more costs budgeted in Sept., **$16k**
2. **KPP:** More costs budgeted this month for KPP bottled drinking water, **<$7k>**
3. **KPP:** Attend M18 training, **$14k**
4. **MPP:** More costs budgeted this month for CEMS, MPP Emission Fees, Ops Nox Water Treatment and Generation Planning, **<$26k>**
5. **MPP:** More labor costs for operation due to M18 comissioning, **$16k**
6. **LPP:** None
7. **MOL:** None
8. **PPA:** None

MAINTENANCE VARIANCE: $ 76,347 11.4%

	FCST	ACTUAL	VARIANCE
KPP	113,956	209,650	95,694
MPP	535,575	513,224	(22,351)
LPP	10,231	7,118	(3,113)
MOL	11,800	17,917	6,117
Ovhd Adj.			-
TOTAL	671,562	747,909	76,347

EXPLANATION:

1. **KPP:** Kahului consortium pipeline maintenance, **$11k**
2. **KPP:** K3 unit outtage due to bearings on steam turbine and generator problems, possibly caused by earthquake, **$105k**
3. **MPP:** M10 unit overhaul originally budgeted for this month, costs inccured are only for preparation, still awaiting for M09 to be completed **<$483k>**
4. **MPP:** M09 unit overhaul not originally budgeted for this month due to some delay in receiving materials **$250k**
5. **LPP:** None
6. **MOL:** P08 unit rebuild Woodward governor actuator, **$9k**

PURCHASE POWER VARIANCE: $ 631,100 38.62%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	6,846,000	627,100	8,026,200	1,567,582
HC&S Capacity	-	151,200	-	150,594
WIND, KAHEAWA	10,257,000	855,800	4,827,118	547,044
HYDRO, MAKILA	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND	-	-	-	-
TOTAL	17,103,000	1,634,100	12,853,318	2,265,220

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,180,200	940,482
HC&S Capacity	-	(606)
HC&S Purchased Power	-	-
WIND, KAHEAWA	(5,429,882)	(308,756)
HYDRO, MAKILA	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	(4,249,682)	631,120

2006	HC&S AVOIDED COST $/KWH		
4th. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.2017	0.1466
OFF-PEAK	0.0513	0.1835	0.1322

EXPLANATION:

1. Purchase power high costs due to higher avoided cost then forecast.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	13,587	14,721	1,134	8.35%
MPP	8,693	9,492	799	9.19%
SYSTEM	9,520	10,417	897	9.42%
LPP	10,025	9,951	(74)	-0.74%
MOL	10,004	10,064	60	0.60%
CHP	-	-	-	#DIV/0!

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	101,223,000	99,557,134	(1,665,866)	-1.65%
LANAI	2,282,900	2,434,768	151,868	6.65%
MOLOKAI	2,969,700	2,865,004	(104,696)	-3.53%
CHP			-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	16,018,000	16,623,830	605,830	3.78%
MPP	74,704,000	77,400,477	2,696,477	3.61%
CHP	-	-	-	#DIV/0!
Maui Total	90,722,000	94,024,307	3,302,307	3.64%
LPP	2,398,700	2,565,971	167,271	6.97%
MOL	3,266,500	3,164,950	(101,550)	-3.11%

EXPLANATION:

1. KPP heatrate high due to keeping K1 online because of K3 bearing failure from earthquake.
2. MPP *heatrate high due to M18 cleaning and testing of unit.* Carrying additional regulating capacity due to windfarm. M18 not producing designed capacity. Problem being investigated.
3. LPP heatrate no explanation needed.
4. MOL heatrate no explanation needed.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - DECEMBER 2006

FUEL OIL VARIANCE: $ 5,662,000 87.2%
BBLS 10,791 7.0%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	35,423	29.19	1,034,000		42,706	52.51	2,242,544
MPP	108,628	45.64	4,957,800		111,175	80.09	8,904,505
LPP	3,324	63.36	210,600		4,549	106.18	483,047
MOL	5,709	51.53	294,200		5,445	97.14	528,929
CHP	-	0.00	0		0	0	0
TOTAL	153,084		6,496,600		163,875		12,159,025

	VARIANCE	
	BBLS	TOTAL
KPP	7,283	$1,208,544
MPP	2,547	$3,946,705
LPP	1,225	$272,447
MOL	(264)	$234,729
CHP	-	-
TOTAL	10,791	$5,662,425

EXPLANATION:

1. Sales 1.61% below forecast on Maui.
2. Sales 5.06% above forecast on Lanai.
3. Sales 3.19% below forecast on Molokai.
4. KPP fuel price 79.9% above forecast.
5. MPP fuel price 75.5% above forecast.
6. LPP fuel price 67.6% above forecast.
7. MOL fuel price 88.5% above forecast.
8. Also, Maui heatrates higher due to explanations below.

OPERATION VARIANCE: $ 183,900 22.7%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,034,000	1,338,630	304,630		2,242,544	2,629,960	387,416
MPP	4,957,800	5,353,207	395,407		8,904,505	9,370,614	466,109
LPP	210,600	260,579	49,979		483,047	552,492	69,445
MOL	294,200	348,296	54,096		528,929	599,063	70,134
PPA			7,622				2,584
Ovhd Adj.							
TOTAL			811,734				995,688

	OPER VARIANCE
KPP	82,786
MPP	70,702
LPP	19,466
MOL	16,038
PPA	(5,038)
Ovhd Adj.	-
TOTAL	183,954

EXPLANATION:

1. **KPP:** Mainly for K1-K4 Operate & Monitor Boiler/Generator Related, **$45k**
2. **KPP:** Mainly for chemicals for boilers, **$9k** and PUC filings, **$5k**
3. **KPP:** Mainly Ops HRSG Chemicals, Materials, etc., **$15k**
4. **MPP:** M1-M13 cooling water chemicals, **$12k**
5. **MPP:** More labor costs for operation due to staff shortage, **$32k**
6. **MPP:** M12/13 opacity mitigation services, **$7k** and MPP air compliance services, **$6k**
7. **LPP:** More labor costs for operation due to staff shortage, **$11k**
8. **LPP:** Air permitting services, **$5k** and CEMS maintenance, **$3k**
9. **MOL:** More labor costs for operation due to staff shortage, **18k**
10. **PPA:** None

MAINTENANCE VARIANCE: $ (342,600) -27.5%

	FCST	ACTUAL	VARIANCE
KPP	112,943	198,860	85,917
MPP	1,087,642	572,797	(514,845)
LPP	17,908	113,825	95,917
MOL	28,578	18,979	(9,599)
Ovhd Adj.			-
TOTAL	1,247,071	904,461	(342,610)

EXPLANATION:

1. **KPP:** Kahului consortium pipeline maintenance, **$16k** .
2. **KPP:** Replace city water lines, **$20k** and FO consortium pipeline inspection due to earthquake, **9k**
3. **KPP:** Mainly for services for M15 turbine problem, **$27k**, Retube K1 generator air cooler, **12k** and K3 *turbine & generator bearings*, **$8k**
4. **MPP:** Delay in M10 unit overhaul, **<$429k>**
5. **MPP:** M13 generator repair budgeted for this month, **<$91k>**
6. **LPP:** Mainly due to delay in recording expenditures for L07 and L08 overhaul, **$87k**
7. **MOL:** None

PURCHASE POWER VARIANCE: $ 1,197,900 74.96%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,074,000	648,000	8,632,800	1,685,544
HC&S Capacity	-	151,200	-	150,675
WIND, KAHEAWA	9,570,000	798,900	8,366,723	959,775
HYDRO, MAKILA	-	-	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND				
TOTAL	16,644,000	1,598,100	16,999,523	2,795,994

	VARIANCE	
	MWH	COST
MAUI		
HC&S	1,558,800	1,037,544
HC&S Capacity	-	(525)
HC&S Purchased Power	-	-
WIND, KAHEAWA	(1,203,277)	160,875
HYDRO, MAKILA	-	-
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	355,523	1,197,894

2006	HC&S AVOIDED COST $/KWH		
4th. Qtr.	FCST (floor)	ACT	VAR
MAUI			
ON-PEAK	0.0551	0.2017	0.1466
OFF-PEAK	0.0513	0.1835	0.1322

EXPLANATION:

1. Purchase power high costs due to higher avoided cost then forecast.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	13,584	14,479	895	6.59%
MPP	8,667	9,243	576	6.65%
SYSTEM	9,493	10,335	842	8.87%
LPP	10,025	10,350	325	3.24%
MOL	10,004	10,098	94	0.94%
CHP	-	-	-	#DIV/0!

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	100,001,000	98,395,902	(1,605,098)	-1.61%
LANAI	2,296,700	2,413,023	116,323	5.06%
MOLOKAI	3,040,200	2,943,170	(97,030)	-3.19%
CHP			-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	16,429,000	18,582,220	2,153,220	13.11%
MPP	73,450,000	70,484,255	(2,965,745)	-4.04%
CHP	-	-	-	#DIV/0!
Maui Total	89,879,000	89,066,475	(812,525)	-0.90%
LPP	1,943,000	2,575,790	632,790	32.57%
MOL	3,344,100	3,159,900	(184,200)	-5.51%

EXPLANATION:

1. **KPP** heatrate high due to running of units more due to Increased maintenance on Maalaea units..
2. **MPP** heatrate high due to carrying additional regulating capacity due to windfarm. M18 awaiting equipment operating issues to be corrected before performance test can be scheduled. CT source testing running at lower loads. M10 started scheduled overhaul.
3. **LPP** heatrate high due to running EMD more than forecast because of higher sales.
4. **MOL** heatrate no explanation needed.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - JANUARY 2007

FUEL OIL VARIANCE: $ 1,264,100 10.6%
BBLS 5,603 3.4%

	FORECAST			ACTUAL		
	BBLS	COST	TOTAL	BBLS	COST	TOTAL
KPP	36,556	50.62	1,850,400	45,991	51.34	2,361,120
MPP	119,198	77.17	9,198,500	114,979	86.10	9,900,117
LPP	4,418	101.05	446,400	4,651	98.57	458,496
MOL	5,387	85.54	460,800	5,541	90.32	500,439
CHP	-	0.00	0	0	0	0
TOTAL	165,559		11,956,100	171,162		13,220,172

	VARIANCE	
	BBLS	TOTAL
KPP	9,435	$510,720
MPP	(4,219)	$701,617
LPP	234	$12,096
MOL	154	$39,639
CHP	-	-
TOTAL	5,603	$1,264,072

EXPLANATION:

1. Sales 1.46% above forecast on Maui.
2. *Sales 5.03% above forecast on Lanai.*
3. Sales 1.46% above forecast on Molokai.
4. KPP fuel price1.4% above forecast.
5. MPP fuel price 11.6% above forecast.
6. LPP fuel price 2.5% below forecast.
7. MOL fuel price 5.6% above forecast.
8. Also, Maui heatrates higher due to explanations below.

OPERATION VARIANCE: $ (82,900) -9.5%

	FORECAST			ACTUAL		
	FUEL	TOTAL	OPER	FUEL	TOTAL	OPER
KPP	1,850,400	2,151,340	300,940	2,361,120	2,683,019	321,899
MPP	9,198,500	9,652,367	453,867	9,900,117	10,247,780	347,663
LPP	446,400	500,741	54,341	458,496	510,895	52,399
MOL	460,800	515,682	54,882	500,439	564,693	64,254
PPA			8,853			3,786
Ovhd Adj.						
TOTAL			872,883			790,001

	OPER VARIANCE
KPP	20,959
MPP	(106,204)
LPP	(1,942)
MOL	9,372
PPA	(5,067)
Ovhd Adj.	-
TOTAL	(82,882)

EXPLANATION:

1. **KPP:** Mainly for KPP Emission Fees, **+$7k**
2. **KPP:** Mainly for LO-1 fuel additive, **+$10k** and PUC filings, **$5k**
3. **KPP:** Mainly for K1-K4 operations and boiler related labor, **+$17k**
4. **MPP:** Ops Nox water treatment chemicals, **<$10k>**
5. **MPP:** HECO Generation Planning Service, **<$11k>** due to timing in recording expenses
6. **MPP: Lube oil usage, <$59k>** and labor costs for operations, **<$13k>** delay in recording expenditures for the month
7. **LPP:** *None*
8. **MOL:** None
9. **PPA:** None

MAINTENANCE VARIANCE: $ 128,000 24.4%

	FCST	ACTUAL	VARIANCE
KPP	193,979	99,338	(94,641)
MPP	279,496	518,040	238,544
LPP	24,679	21,131	(3,548)
MOL	26,876	14,092	(12,784)
Ovhd Adj.			-
TOTAL	525,030	652,601	127,571

EXPLANATION:

1. **KPP:** *K2 Overhaul originally scheduled on 01/15/07-02/10/07 but delayed to 2008,* **<$138k>**
2. **MPP:** Delay in M08 unit overhaul, **<$263k>**
3. **MPP:** M10 unit overhaul originally budgeted in Dec. 2006, **+$419k**
4. **MPP:** M16 re-installation of overhauled engine originally budgted in Feb. 2007, **+$45k**
7. **LPP:** None
7. **MOL:** Delay in Cat8 and Cat9 overhaul; costs budgeted in Jan. 2007., **+32k**

PURCHASE POWER VARIANCE: $ 101,800 5.82%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	5,541,000	837,200	5,695,689	947,706
HC&S Capacity		151,200	-	150,130
WIND, KAHEAWA	7,163,000	731,800	7,031,377	752,235
HYDRO, MAKILA	186,000	28,100		-
MOLOKAI				
SML ALT ENERGY		-		-
WIND				
TOTAL	12,890,000	1,748,300	12,727,066	1,850,070

	VARIANCE	
	MWH	COST
MAUI		
HC&S	154,689	110,506
HC&S Capacity	-	(1,070)
HC&S Purchased Power	-	-
WIND, KAHEAWA	(131,623)	20,435
HYDRO, MAKILA	(186,000)	(28,100)
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	(162,934)	101,770

2006	HC&S AVOIDED COST $/KWH		
4th Qtr.	FCST	ACT	VAR
MAUI			
ON-PEAK	0.1163	0.2017	0.0854
OFF-PEAK	0.1065	0.1835	0.0770

EXPLANATION:

1. Purchase power high costs due to higher avoided cost then forecast.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	13,647	14,492	845	6.19%
MPP	9,165	9,169	4	0.04%
SYSTEM	9,977	10,307	330	3.31%
LPP	10,062	10,361	299	2.97%
MOL	9,927	10,069	142	1.43%
CHP	-	-	-	0%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	99,705,000	101,163,382	1,458,382	1.46%
LANAI	2,446,300	2,569,369	123,069	5.03%
MOLOKAI	2,890,400	2,932,478	42,078	1.46%
CHP	-	-	-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	16,875,000	19,993,920	3,118,920	18.48%
MPP	76,217,000	73,488,123	(2,728,877)	-3.58%
CHP	-	-	-	0%
Maui Total	93,092,000	93,482,043	390,043	0.42%
LPP	2,572,800	2,360,720	(212,080)	-8.24%
MOL	3,180,000	3,224,545	44,545	1.40%

EXPLANATION:

1. **KPP** heatrate high due to running of units more due to increased maintenance on Maalaea units.
2. **MPP** heatrate high due to carrying additional regulating capacity due to windfarm. M18 awaiting equipment operating issues to be corrected before performance test can be scheduled. CT source testing running at lower loads. M10 started scheduled overhaul.
3. **LPP** heatrate high due to running EMD more than forecast because of higher sales.
4. **MOL** heatrate no explanation needed.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - FEBRUARY 2007

FUEL OIL VARIANCE: $ 1,701,700 16.2%
BBLS (1,455) -1.0%

	FORECAST			ACTUAL		
	BBLS	COST	TOTAL	BBLS	COST	TOTAL
KPP	33,000	50.62	1,670,500	37,399	53.08	1,985,070
MPP	103,771	77.17	8,008,000	97,870	95.36	9,332,776
LPP	3,943	101.05	398,400	4,099	105.13	430,928
MOL	5,029	85.54	430,200	4,920	93.51	460,090
CHP	-	0.00	0	0	0	0
TOTAL	145,743		10,507,100	144,288		12,208,863

	VARIANCE	
	BBLS	TOTAL
KPP	4,399	$314,570
MPP	(5,901)	$1,324,776
LPP	156	$32,528
MOL	(109)	$29,890
CHP	-	-
TOTAL	(1,455)	$1,701,763

EXPLANATION:

1. Sales 1.80% below forecast on Maui.
2. Sales 3.89% above forecast on Lanai.
3. Sales 2.98% below forecast on Molokai.
4. KPP fuel price 4.9% above forecast.
5. MPP fuel price 23.6% above forecast.
6. LPP fuel price 4.0% above forecast.
7. MOL fuel price 9.3% above forecast.
8. Also, Maui heatrates higher due to explanations below.

OPERATION VARIANCE: $ 9,036 1.1%

	FORECAST			ACTUAL		
	FUEL	TOTAL	OPER	FUEL	TOTAL	OPER
KPP	1,670,500	1,939,042	268,542	1,985,070	2,276,048	290,978
MPP	8,008,000	8,427,717	419,717	9,332,776	9,729,987	397,211
LPP	398,400	447,742	49,342	430,928	486,775	55,847
MOL	430,200	478,452	48,252	460,090	516,855	56,765
PPA			9,120			3,208
Ovhd Adj.						
TOTAL			794,973			804,009

	OPER VARIANCE
KPP	22,436
MPP	(22,506)
LPP	6,505
MOL	8,513
PPA	(5,912)
Ovhd Adj.	-
TOTAL	9,036

EXPLANATION:

1. **KPP:** Mainly due to higher labor costs for K1-K4 operations and boiler related, **+$47k**
2. **MPP:** More costs budgeted this month for lube oil usage, **<$32k>**
3. **LPP:** None
4. **MOL:** None
5. **PPA:** None

MAINTENANCE VARIANCE: $ 293,794 26.1%

	FCST	ACTUAL	VARIANCE
KPP	157,007	100,871	(56,136)
MPP	401,637	1,295,954	894,317
LPP	19,211	12,297	(6,914)
MOL	548,702	11,229	(537,473)
Ovhd Adj.			-
TOTAL	1,126,557	1,420,351	293,794

EXPLANATION:

1. **KPP:** K2 annual overhaul orginally forecasted to begin in February but was rescheduled for November, **<$54k>**
2. **MPP:** Mainly due to accrual of unpaid invoices for M16 50,000 hr overhaul, **+$772k**
3. **MPP:** *M10 unit overhaul originally budgeted in Dec. 2006,* **+$426k**
4. **LPP:** None
5. **MOL:** Delay in Cat8 and Cat9 overhaul; costs were originally budgeted in Jan. and Feb. 2007, **<$527k>**

PURCHASE POWER VARIANCE: $ 234,303 12.66%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	6,488,000	983,400	7,164,195	1,191,234
HC&S Capacity	-	151,200	-	149,240
WIND, KAHEAWA	6,802,000	690,400	6,903,041	744,129
HYDRO, MAKILA	168,000	25,300	-	-
MOLOKAI				
SML ALT ENERGY	-	-	-	-
WIND				
TOTAL	13,458,000	1,850,300	14,067,236	2,084,603

	VARIANCE	
	MWH	COST
MAUI		
HC&S	676,195	207,834
HC&S Capacity	-	(1,960)
HC&S Purchased Power	-	-
WIND, KAHEAWA	101,041	53,729
HYDRO, MAKILA	*(168,000)*	*(25,300)*
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	609,236	234,303

2007	HC&S AVOIDED COST $/KWH		
1st. Qtr.	FCST (GenPln)	ACT	VAR
MAUI			
ON-PEAK	0.1566	0.1717	0.0151
OFF-PEAK	0.1429	0.1565	0.0136

EXPLANATION:

1. Purchase power high costs due to higher avoided cost then forecast.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	13,675	14,259	584	4.27%
MPP	9,202	9,078	(124)	-1.35%
SYSTEM	10,038	10,153	115	1.15%
LPP	10,062	9,920	(142)	-1.41%
MOL	9,927	9,896	(31)	-0.31%
CHP	-	-	-	0%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	89,094,000	87,491,507	(1,602,493)	-1.80%
LANAI	2,182,800	2,267,802	85,002	3.89%
MOLOKAI	2,697,600	2,617,184	(80,416)	-2.98%
CHP	-	-	-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	15,203,000	16,523,120	1,320,120	8.68%
MPP	66,087,000	63,174,113	(2,912,887)	-4.41%
CHP	-	-	-	0%
Maui Total	81,290,000	79,697,233	(1,592,767)	-1.96%
LPP	2,296,200	2,421,419	125,219	5.45%
MOL	2,968,700	2,913,620	(55,080)	-1.86%

EXPLANATION:

1. **KPP** heatrate high due to more generation from KPP then forecast.
2. **MPP** heatrate lower than forecast because less generation then forecast.
   Purchase power from renewables less than forecast made up from KPP & HC&S.
3. **LPP** heatrate lower than forecast because CAT units able to run at higher loads due to higher than forecast sales.
4. **MOL** heatrate no explanation needed.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - MARCH 2007

FUEL OIL VARIANCE: $ 2,003,182 17.6%
BBLS 4,801 3.0%

	FORECAST				ACTUAL		
	BBLS	COST	TOTAL		BBLS	COST	TOTAL
KPP	38,206	50.62	1,934,000		31,217	51.00	1,591,980
MPP	110,342	77.17	8,515,100		122,143	88.60	10,821,963
LPP	4,420	101.03	446,500		4,495	103.62	465,757
MOL	5,613	85.54	480,100		5,527	90.31	499,183
CHP	-	0.00	0		0	0	0
TOTAL	158,580		11,375,700		163,382		13,378,882

	VARIANCE	
	BBLS	TOTAL
KPP	(6,989)	-$342,020
MPP	11,801	$2,306,863
LPP	75	$19,257
MOL	(85)	$19,083
CHP	-	-
TOTAL	4,801	$2,003,182

EXPLANATION:

1. *Sales 2.44% above forecast on Maui.*
2. Sales 2.58% above forecast on Lanai.
3. Sales 1.11% above forecast on Molokai.
4. KPP fuel price 0.7% above forecast.
5. MPP fuel price 14.8% above forecast.
6. LPP fuel price 2.6% above forecast.
7. MOL fuel price 5.6% above forecast.
8. Also, Maui heatrates higher due to explanations below.

OPERATION VARIANCE: $ (749,630) -83.2%

	FORECAST				ACTUAL		
	FUEL	TOTAL	OPER		FUEL	TOTAL	OPER
KPP	1,934,000	2,242,197	308,197		1,591,980	1,887,800	295,820
MPP	8,515,100	8,961,599	446,499		10,821,963	10,566,130	(255,833)
LPP	446,500	518,221	71,721		465,757	520,236	54,479
MOL	480,100	545,815	65,715		499,183	552,601	53,418
PPA			8,853				3,471
Ovhd Adj.							
TOTAL			900,985				151,355

	OPER VARIANCE
KPP	(12,377)
MPP	(702,332)
LPP	(17,242)
MOL	(12,297)
PPA	(5,382)
Ovhd Adj.	-
TOTAL	(749,630)

EXPLANATION:

1. **KPP:** Mainly to adjustment for 2006 emission fees to actual calculation, **<$16k>**
2. **MPP:** Mainly due to acrrual of estimated receivables from Aegis for liability insurance claims on 2002 MPP Oil Spill **<$725k>**.
3. **LPP:** Mainly due to delay in recording expenditures for environmental consulting services, **<$19k>**.
4. **MOL:** Mainly due to delay in recording expenditures for environmental consulting services, **<$18k>**.
5. **PPA:** None

MAINTENANCE VARIANCE: $ (1,673,434) -45.2%

	FCST	ACTUAL	VARIANCE
KPP	155,210	351,944	196,734
MPP	3,243,616	1,616,589	(1,627,027)
LPP	21,572	46,775	25,203
MOL	278,118	9,774	(268,344)
Ovhd Adj.			-
TOTAL	3,698,516	2,025,082	(1,673,434)

EXPLANATION:

1. **KPP:** Mainly due to change in overhaul schedule for K4 (originally budgeted on 05/07/07-06/02/07), **+$214k>**
2. **MPP:** Mainly due to delay in overhaul schedule for M16 to reinstall overhauled engine (originally budgeted on 02/24-02/25/07), **+$1.4M**
3. **MPP:** Mainly due to delay in overhaul schedule for M12 (moved to 08/13/07-10/05/07), **<$500k>**
4. **MOL:** Delay in Cat7 overhaul schedule (moved to 04/16/07-04/25/07), **<$265k>**

PURCHASE POWER VARIANCE: $ (120,280) -5.14%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,919,000	1,201,600	8,499,405	1,414,146
HC&S Capacity		151,200		151,153
WIND, KAHEAWA	9,381,000	958,500	6,102,242	653,821
HYDRO, MAKILA	186,000	28,100		-
MOLOKAI				
SML ALT ENERGY		-	-	-
WIND				
TOTAL	17,486,000	2,339,400	14,601,647	2,219,120

	VARIANCE	
	MWH	COST
MAUI		
HC&S	580,405	212,546
HC&S Capacity	-	(47)
HC&S Purchased Power	-	-
WIND, KAHEAWA	(3,278,758)	(304,679)
HYDRO, MAKILA	(186,000)	(28,100)
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	(2,884,353)	(120,280)

2007	HC&S AVOIDED COST $/KWH		
1st Qtr.	FCST	ACT	VAR
MAUI			
ON-PEAK	0.1163	0.1717	0.0554
OFF-PEAK	0.1065	0.1565	0.05

EXPLANATION:

1. Purchase power high costs due to higher avoided cost then forecast.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	13,779	14,596	817	5.93%
MPP	9,195	9,108	(87)	-0.95%
SYSTEM	10,107	9,911	(196)	-1.94%
LPP	10,062	10,206	144	1.43%
MOL	9,927	10,049	122	1.23%
CHP			-	0%

	SALES, net.			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	98,966,000	101,381,650	2,415,650	2.44%
LANAI	2,447,300	2,510,459	63,159	2.58%
MOLOKAI	3,010,600	3,044,115	33,515	1.11%
CHP			-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	17,469,000	13,473,670	(3,995,330)	-22.87%
MPP	70,318,000	78,583,441	8,265,441	11.75%
CHP	-	-	-	0%
Maui Total	87,787,000	92,057,111	4,270,111	4.86%
LPP	2,573,900	2,580,828	6,928	0.27%
MOL	3,313,200	3,223,150	(90,050)	-2.72%

EXPLANATION:

1. **KPP** heatrate high due to K4 budgeted overhaul moved from May to March.
2. **MPP** heatrate running close to budget forecast. No explanation needed.
3. **LPP** heatrate high due to running EMD more than forecast.
4. **MOL** heatrate high due to running of smaller diesel units due to CAT8 turbo failure and problem with CAT7 engine. Also, CAT overhauls were rescheduled from Jan-Feb to Mar-Apr so smaller units run during the overhauls.

MAUI ELECTRIC COMPANY, LIMITED
PRODUCTION DEPARTMENT
MONTHLY VARIANCE REPORT - APRIL 2007

FUEL OIL VARIANCE: $ 1,624,182 14.8%
BBLS (771) -0.5%

	FORECAST			ACTUAL		
	BBLS	COST	TOTAL	BBLS	COST	TOTAL
KPP	40,524	50.62	2,051,300	39,249	53.21	2,088,475
MPP	104,215	77.17	8,042,200	104,474	91.64	9,574,257
LPP	4,335	101.05	438,000	4,479	99.91	447,446
MOL	5,335	85.53	456,300	5,435	92.33	501,804
CHP	-	0.00	0	0	0	0
TOTAL	154,408		10,987,800	153,637		12,611,982

	VARIANCE	
	BBLS	TOTAL
KPP	(1,275)	$37,175
MPP	259	$1,532,057
LPP	144	$9,446
MOL	100	$45,504
CHP	-	-
TOTAL	(771)	$1,624,182

EXPLANATION:

1. Sales 0.97% below forecast on Maui.
2. Sales 4.28% above forecast on Lanai.
3. Sales 0.45% above forecast on Molokai.
4. KPP fuel price 5.1% above forecast.
5. MPP fuel price 18.8% above forecast.
6. LPP fuel price 1.1% below forecast.
7. MOL fuel price 7.9% above forecast.
8. Also, Maui heatrates higher due to explanations below.

OPERATION VARIANCE: $ (112,234) -12.4%

	FORECAST			ACTUAL		
	FUEL	TOTAL	OPER	FUEL	TOTAL	OPER
KPP	2,051,300	2,336,738	285,438	2,088,475	2,382,640	294,165
MPP	8,042,200	8,518,287	476,087	9,574,257	9,955,162	380,905
LPP	438,000	507,688	69,688	447,446	506,994	59,548
MOL	456,300	524,818	68,518	501,804	560,912	59,108
PPA			8,853			2,624
Ovhd Adj.						
TOTAL			908,584			796,350

	OPER VARIANCE
KPP	8,727
MPP	(95,182)
LPP	(10,140)
MOL	(9,410)
PPA	(6,229)
Ovhd Adj.	-
TOTAL	(112,234)

EXPLANATION:

1. **KPP:** *Mainly due to higher labor hours than budgeted for the month,* **+$25k**
2. **KPP:** Mainly due to delay in recording expenditures for fuel additives, **<$11k>**
3. **MPP:** Mainly due to delay in recording costs for MPP Air Compliance services, **<$40k>**
4. **MPP:** Mainly due to delay in recording costs for lube oil usage, **<$71k>**
5. **LPP:** Mainly due to delay in recording costs for Miki Air Compliance services, **<$17k>**
6. **MOL:** Mainly due to delay in recording costs for PPP Air Compliance services, **<$11k>**
7. **PPA:** None

MAINTENANCE VARIANCE: $ 14,515 1.8%

	FCST	ACTUAL	VARIANCE
KPP	131,480	203,105	71,625
MPP	639,266	531,352	(107,914)
LPP	19,514	3,156	(16,358)
MOL	9,730	76,892	67,162
Ovhd Adj.			-
TOTAL	799,990	814,505	14,515

EXPLANATION:

1. **KPP:** Mainly due to change in overhaul schedule for K4 (originally budgeted on 05/07/07-06/02/07), **+$125k>**
2. **MPP:** Mainly due to change in overhaul schedule for M08 (originally budgeted on 01/08/07-03/02/07) and is now scheduled for 04/02/07-06/02/07 to do major overhaul and ring gear replacement, **+$253k**
3. **MPP:** Mainly due to delay in overhaul schedule for M12 (moved to 08/13/07-10/05/07), **<$488k>**
4. **MPP:** Mainly due to delay in overhaul schedule for M10 (unbudgeted for this year), **+$101k**
5. **LAN:** Mainly due to accrual of services portion of L07 & L08 OH from costs charged to materials, **<$14k>**
5. **MOL:** Mainly due to unbudgeted costs for the replacement of turbocharger unit G08, **+$61k**

PURCHASE POWER VARIANCE: $ 397,531 16.97%

	FORECAST		ACTUAL	
	KWH	COST	KWH	COST
MAUI				
HC&S	7,669,000	1,140,400	8,394,371	1,443,044
HC&S Capacity		151,200		155,457
WIND, KAHEAWA	10,140,000	1,024,200	10,484,046	1,141,430
HYDRO, MAKILA	180,000	26,600		
MOLOKAI				
SML ALT ENERGY		-		
WIND				
TOTAL	17,989,000	2,342,400	18,878,417	2,739,931

	VARIANCE	
	MWH	COST
MAUI		
HC&S	725,371	302,644
HC&S Capacity	-	4,257
HC&S Purchased Power	-	-
WIND, KAHEAWA	344,046	117,230
HYDRO, MAKILA	(180,000)	(26,600)
MOLOKAI		
SML ALT ENERGY	-	-
WIND	-	-
TOTAL	889,417	397,531

2007	HC&S AVOIDED COST $/KWH		
2nd Qtr.	FCST	ACT	VAR
MAUI			
ON-PEAK	0.1163	0.1773	0.0610
OFF-PEAK	0.1065	0.1615	0.0550

EXPLANATION:

1. Purchase power high costs due to higher avoided cost then forecast.

HEAT RATE VARIANCE:

	BTU/KWH, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	13,965	14,554	589	4.22%
MPP	9,211	9,184	(27)	-0.29%
SYSTEM	10,239	10,275	36	0.35%
LPP	10,062	9,951	(111)	-1.10%
MOL	9,927	10,196	269	2.71%
CHP	-	-	-	0%

	SALES, net			Monthly
	FCST	ACTUAL	VARIANCE	% VARIANCE
MAUI	96,425,000	95,493,406	(931,594)	-0.97%
LANAI	2,399,800	2,502,453	102,653	4.28%
MOLOKAI	2,861,700	2,874,473	12,773	0.45%
CHP	-		-	0.00%

NET POWER PRODUCED

	KWH			
	FCST	ACTUAL	VARIANCE	% VARIANCE
KPP	18,282,000	16,990,330	(1,291,670)	-7.07%
MPP	66,298,000	66,658,944	360,944	0.54%
CHP	-	-	-	0%
Maui Total	84,580,000	83,649,274	(930,726)	-1.10%
LPP	2,524,400	2,637,349	112,949	4.47%
MOL	3,149,200	3,123,885	(25,315)	-0.80%

EXPLANATION:

1. **KPP** heatrate high due to rescheduling of K3 overhaul in April. K3 overhaul was originally budgeted in November.
2. **MPP** heatrate close to forecast. No explanation needed.
3. **LPP** heatrate low due to less running hours on the EMDs.
4. **MOL** heatrate high due to rescheduling of new CAT unit overhauls from budgeted forecast. Overhauls moved from Jan-Feb to Mar-Apr.

CA-IR-92

Ref: Response to CA-IR-1, MECO T-5, Attachment 9 – (MGD Projected Labor Hours).

a. Please provide calculations and detailed supporting information for the input overtime hours on Attachment 9, page 6 of 390 hours for GDSUPV, 7,116 hours for GDMANT and 390 hours for GDMATL.

b. Provide electronic spreadsheet files for the standard overhaul calculations at pages 7 through 12, indicating:

   1. which values for each overhaul were carried forward into labor input hours,

   2. which materials costs (EE=201) were carried forward into MGD non-labor expense projections for the test year, and

   3. which outside services (EE=501) costs were carried forward into MGD non-labor expense projections for the test year.

c. Identify and describe which of the test year projected overhauls involve capital work, for which labor hours were charged to NI indicators.

d. Confirm that no normalization adjustments were made by MECO to restate projected 2007 overhaul schedules and work scope, even though non-labor overhaul costs were normalized.

MECO Response:

a. The input overtime hours on CA-IR-1 MECO T-5 Attachment 9, page 6 are calculated based on the holiday and overhaul schedules (see CA-IR-92 Attachments 1 and 2 for these schedules). The overtime hours projected as it relates to overhaul are all work performed during a unit overhaul that is outside the designated work hours/days (i.e. hours worked in excess of 8 hours a day, 40 hours a week and during holidays). The spreadsheet on our CA-IR-1, MECO T-5, Attachment 9, page 5 is

being re-submitted in a better format as our supporting document for the calculations of our overtime hours (see CA-IR-92 Attachment 3).

b. Please refer to CA-IR-92 Attachments 4 through 6 for the electronic spreadsheet files for the standard overhaul calculations. Please note that the non-labor expenses projections for the test year are not shown on these spreadsheets due to the normalization adjustments not being budgeted at this level of detail.

   1. Please refer to CA-IR-92 Attachment 4 for values for each overhaul that were carried forward into labor input hours for MGD,
   2. Please refer to CA-IR-92 Attachment 5 for material costs that were carried forward into MGD non-labor expenses projections for 2007 operating budget, and
   3. Please refer to CA-IR-92 Attachment 6 for outside services costs that were carried forward into MGD non-labor expenses projections for 2007 operating budget.

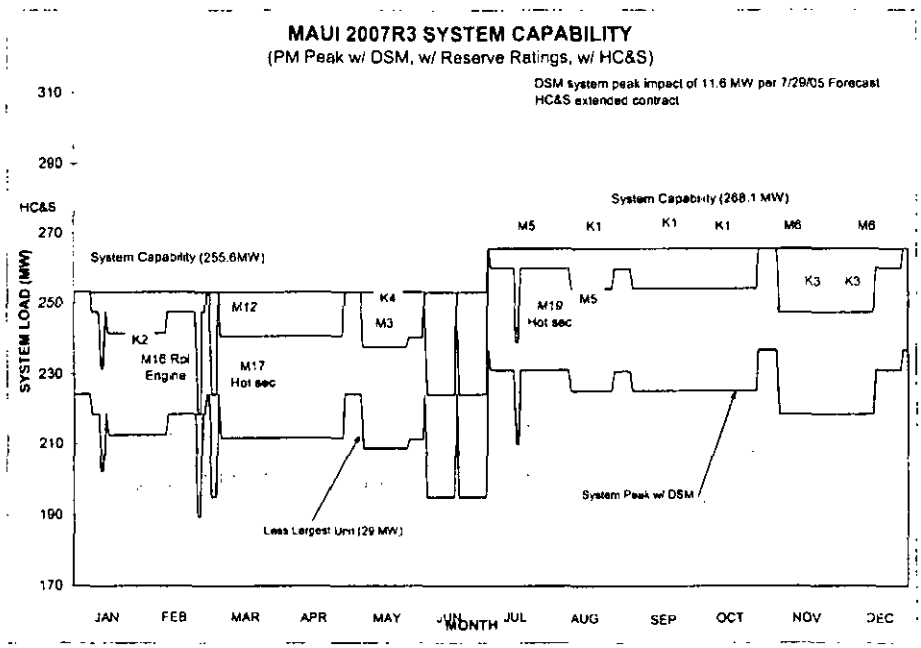
c. There are no overhauls involving capital work for MGD labor hours that were charged to NI indicators.

d. There was no normalization adjustments made to restate projected 2007 overhaul schedules and work scope, even though non-labor overhaul costs were normalized.

Holiday Schedule

	2006	2007	2008
January	Monday, January 2 *New Year's Day*	Monday, January 1 *New Year's Day*	Tuesday, January 1 *New Year's Day*
February	†Monday, February 20 *President's Day*	†Monday, February 19 *President's Day*	†Monday, February 18 *President's Day*
March			†Friday, March 21 *Good Friday*
April	†Friday, April 14 *Good Friday*	†Friday, April 6 *Good Friday*	
May	Monday, May 29 *Memorial Day*	Monday, May 28 *Memorial Day*	Monday, May 26 *Memorial Day*
June	†Monday, June 12 *Kamehameha Day*	†Monday, June 11 *Kamehameha Day*	†Wednesday, June 11 *Kamehameha Day*
July	Tuesday, July 4 *Independence Day*	Wednesday, July 4 *Independence Day*	Friday, July 4 *Independence Day*
August	†Friday, August 18 *Statehood Day*	†Friday, August 17 *Statehood Day*	†Friday, August 15 *Statehood Day*
September	Monday, September 4 *Labor Day*	Monday, September 3 *Labor Day*	Monday, September 1 *Labor Day*
October	†Monday, October 9 *Discoverers' Day*	†Monday, October 8 *Discoverers' Day*	†Monday, October 13 *Discoverers' Day*
November	Tuesday, Nov 7 *General Election Day*	†Monday, November 12 *Veterans' Day*	Tuesday, Nov 4 *General Election Day*
	†Friday, November 10 *Veterans' Day*	Thursday, November 22 *Thanksgiving Day*	†Tuesday, November 11 *Veterans' Day*
	Thursday, November 23 *Thanksgiving Day*		Thursday, November 27 *Thanksgiving Day*
December	Friday, December 22 *½ Day Christmas Eve*	Monday, December 24 *½ Day Christmas Eve*	Wednesday, December 24 *½ Day Christmas Eve*
	Monday, December 25 *Christmas Day*	Tuesday, December 25 *Christmas Day*	Thursday, December 25 *Christmas Day*
	Friday, December 29 *½ Day New Year's Eve*	Monday, December 31 *½ Day New Year's Eve*	Wednesday, December 31 *½ Day New Year's Eve*

†Floating Holiday for merit employees



Month (1)	System Pk w/ DSM (MW) (2)	System Cap (MW) (3)	Maint (MW) (4)	Reserve (MW) (5)=(3)-(4)-(2)	% Reserve (Less Maint) (5) / (2)	Lrgst Avail (MW) (7)	LSC Diff (MW) (5) - (7)
JAN	214.3	253.2	21.60	17.31	8.08%	29.00	-11.69
FEB	212.7	253.2	34.60	5.85	2.75%	29.00	-23.15
MAR	212.2	253.2	29.00	12.02	5.67%	29.00	-16.98
APR	207.7	253.2	12.50	33.01	15.90%	29.00	4.01
MAY	207.4	253.2	15.50	30.25	14.58%	29.00	1.25
JUN	207.9	253.2	29.00	16.27	7.82%	29.00	-12.73
JUL	218.5	265.7	26.80	20.39	9.33%	29.00	-8.61
AUG	224.5	265.7	11.50	29.71	13.24%	29.00	0.71
SEP	218.7	265.7	11.50	35.47	16.22%	29.00	6.47
OCT	224.7	265.7	11.50	29.54	13.15%	29.00	0.54
NOV	221.4	265.7	18.30	25.99	11.74%	29.00	-3.01
DEC	223.4	265.7	18.30	23.95	10.72%	29.00	-5.05

HC&S	01/13/07-01/14/07	2 days	Annual outage. Zero tie.
M8	01/08/07-03/02/07	8 Weeks	Major overhaul
K2	01/15/07-02/10/07	4 Weeks	Annual overhaul (Static Exciter)
M16	02/24/07-02/25/07	2 days	Re-install overhauled engine.
M17	03/02/07-03/04/07	3 days	Hot section replacement
M12	03/05/07-04/28/07	8 Weeks	Major overhaul
K4	05/07/07-06/02/07	4 Weeks	Annual overhaul
M3	05/07/07-05/28/07	3 Weeks	Major overhaul
M16 HRSG	06/04/07-06/16/07	2 Weeks	Annual maintenance.
M14 HRSG	06/18/07-06/30/07	2 Weeks	Annual maintenance & LP section retubing.
M14	06/18/07-06/24/07	7 days	Generator cleaning (M14 Controls Upgrade)
M5	07/02/07-08/24/07	8 Weeks	Major overhaul
M19	07/13/07-07/14/07	2 days	Hot section replacement.
M4	09/04/07-10/26/07	8 Weeks	Major overhaul
K1	08/06/07-10/26/07	12 Weeks	Annual overhaul. Turb Ovhl (Generator Rewind & Static Exciter)
M6	11/05/07-12/28/07	8 Weeks	Major overhaul
K3	11/05/07-12/14/07	6 Weeks	Annual overhaul (ID fan replacement)

GDMANT (18)

*RA # *Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	TOTAL 2007
Overhaul hours	2,688	3,168	4,096	3,552	1,693	1,655	3488	2,976	3,192	3,454	3,285	3541	36788
General Maint hours	460	112	224	5	630	1,014	148	147	47	0	0	0	2783.5
Capital	40	40	4	4	0	0	0	0	0	160	0	0	248
Total	3,188	3,320	4,324	3,561	2,323	2,669	3,636	3,123	3,239	3,614	3,285	3,541	39819.5
													0
Supply	3312	2880	3168	3024	3312	3024	3168	3312	2880	3312	3168	3024	37584
OT	384	608	1280	992	157.5	462.5	672	512	512	512	384	640	7116
Total Hrs Avail	3696	3488	4448	4016	3469.5	3486.5	3840	3824	3392	3824	3552	3664	44700

*RA # *Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	TOTAL 2007
GDSUPV (1) Mike Abbey													
Overhaul hours	42	64	78	72	15	48	52	44	48	48	46	50	607
General Maint hours	166	128	168	158	174	125	156	172	144	168	154	158	1,871
Capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	208	192	246	230	189	173	208	216	192	216	200	208	2478
													0
Supply	184	160	176	168	184	168	176	184	160	184	176	168	2088
OT	24	32	70	62	5	5	32	32	32	32	24	40	390
Total Hrs Avail	208	192	246	230	189	173	208	216	192	216	200	208	2478

*RA # *Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	TOTAL 2007
GDMATL (Eileen)													
Overhaul hours	0	0	0	0	0	0	0	0	0	0	0	0	0
General Maint hours	196	176	211	199	187	170	192	200	176	200	188	188	2283
Ellipse	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	196	176	211	199	187	170	192	200	176	200	188	188	2283
													0
Supply	184	160	176	168	184	168	176	184	160	184	176	168	2088
OT	12	16	35	31	3	2	16	16	16	16	12	20	195
Total Hrs Avail	196	176	211	199	187	170	192	200	176	200	188	188	2283

*RA # *Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	TOTAL 2007
GDMATL (Shamus)													
Overhaul hours	0	0	0	0	0	0	0	0	0	0	0	0	0
General Maint hours	196	176	211	199	186	171	192	200	176	200	188	188	2283
Capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	196	176	211	199	186	171	192	200	176	200	188	188	2283
													0
Supply	184	160	176	168	184	168	176	184	160	184	176	168	2088
OT	12	16	35	31	2	3	16	16	16	16	12	20	195
Total Hrs Avail	196	176	211	199	186	171	192	200	176	200	188	188	2283

CA-IR-93

Ref: Response to CA-IR-1, MECO T-5, Attachment 10 – (MGE Projected Labor Hours).

a. Please provide calculations and detailed supporting information for the input overtime hours on Attachment 10, page 5 of 312 hours for GESUPV and 3,612 hours for GEMANT.

b. Provide electronic spreadsheet files supporting the overhaul labor hours for MGE, indicating:

   1. which values for each overhaul were carried forward into labor input hours,

   2. which materials costs (EE=201) were carried forward into MGD non-labor expense projections for the test year, and

   3. which outside services (EE=501) costs were carried forward into MGD non-labor expense projections for the test year.

c. Identify and describe which of the test year projected overhauls involve capital work, for which labor hours were charged to NI indicators.

d. Confirm that no normalization adjustments were made by MECO to restate projected 2007 overhaul schedules and work scope, even though non-labor overhaul costs were normalized.

MECO Response:

a. As stated on our response to CA-IR-92, page 1, the overtime hours are calculated based on the holiday and overhaul schedules. The overtime hours projected as it relates to overhaul are all work performed during a unit overhaul that is outside the designated work hours/days (i.e. hours worked in excess of 8 hours a day, 40 hours a week and during holidays). The spreadsheet on our CA-IR-1, MECO T-5, Attachment 10, page 6 is being re-submitted in a better format as our supporting document for the calculations of our overtime hours (see CA-IR-93 Attachment 1).

b. Please refer to CA-IR-93 Attachments 2 through 4 for electronic spreadsheet files supporting the overhaul labor hours for MGE. Please note that the non-labor expenses projections for the test year are not shown on these spreadsheets due to the normalization adjustments not being budgeted at this level of detail.

   1. Please refer to CA-IR-93 Attachment 2 for values for each overhaul that were carried forward into labor input hours for MGE,
   2. Please refer to CA-IR-93 Attachment 3 for material costs that were carried forward into MGE non-labor expenses projections for 2007 operating budget, and
   3. Please refer to CA-IR-93 Attachment 4 for outside services costs that were carried forward into MGE non-labor expense projects for 2007 operating budget.

c. Please refer to CA-IR-93 Attachment 5 for the test year projected overhauls involving capital work, for which MGE labor hours were charged to NI indicators.

d. There was no normalization adjustments made to restate projected 2007 overhaul schedules and work scope, even though non-labor overhaul costs were normalized.

GEMANT (10)

*RA #	*Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Total 2007
Overhauls	GEMANT	1530	1368	672	625	1387	1637	432	1184	584	584	1335	765	12,103
Capital		160	160	136	88	160	80	24	0	240	96	0	0	1,144
General Maintenance		451	373	1253	1,268	594	264	1605	957	1077	1461	726	1216	11,245
Total		2,141	1,901	2,061	1,981	2,141	1,981	2,061	2,141	1,901	2,141	2,061	1,981	24,492
														0
Available		1840	1600	1760	1680	1840	1680	1760	1840	1600	1840	1760	1680	20880
OT		301	301	301	301	301	301	301	301	301	301	301	301	3,612
Total Avail		2,141	1,901	2,061	1,981	2,141	1,981	2,061	2,141	1,901	2,141	2,061	1,981	24,492

*RA #	*Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Total 2007
GESUPV (Gerardo)														
Overhauls	GESUPV	40	48	40	32	45	67	28	46	27	27	36	36	472
Capital		40	0	0	10	10	10	0	0	40	16	0	0	126
General Maintenance		130	138	162	152	155	117	174	164	119	167	166	158	1802
Total		210	186	202	194	210	194	202	210	186	210	202	194	2400
														0
Available		184	160	176	168	184	168	176	184	160	184	176	168	2088
OT		26	26	26	26	26	26	26	26	26	26	26	26	312
Total Avail		*210*	*186*	*202*	*194*	*210*	*194*	*202*	*210*	*186*	*210*	*202*	*194*	***2400***

*RA #	*Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Total 2007
GEMANT (Extra person)														
Overhauls	GESUPV	0	0	0	0	0	0	0	0	0	0	0	0	0
Capital		0	0	0	0	0	0	0	0	0	0	0	0	0
General Maintenance		184	160	176	168	184	168	176	184	160	184	176	168	2088
Total		184	160	176	168	184	168	176	184	160	184	176	168	2088
														0
Available		184	160	176	168	184	168	176	184	160	184	176	168	2088
OT		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Avail		184	160	176	168	184	168	176	184	160	184	176	168	2088

Total 2007 for MGE = 28,980

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL LABOR HOURS DETAIL FOR MGE
TEST YEAR 2007 FORECAST

RA	ACT	LOC	IND	PROJ	PROJECT	EE	LBR CLASS	2007 TOTAL HOURS
MGE	275	M06	NE	M0000022	M6 Overhaul	150	GEMANT	768
MGE	275	M06	NE	M0000022	M6 Overhaul	150	GESUPV	40
MGE	275	G08	NE	M0000030	Cat8 Overhaul	150	GEMANT	100
MGE	275	G09	NE	M0000031	Cat9 Overhaul	150	GEMANT	100
MGE	257	M15	NE	M0000047	M15 Overhaul	150	GEMANT	666
MGE	257	M15	NE	M0000047	M15 Overhaul	150	GEMANT	666
MGE	257	M15	NE	M0000047	M15 Overhaul	150	GESUPV	24
MGE	257	M15	NE	M0000047	M15 Overhaul	150	GESUPV	24
MGE	260	M15	NE	M0000047	M15 Overhaul	150	GEMANT	200
MGE	260	M15	NE	M0000047	M15 Overhaul	150	GESUPV	16
MGE	275	M12	NE	M0000050	M12 Overhaul	150	GEMANT	1,249
MGE	275	M12	NE	M0000050	M12 Overhaul	150	GESUPV	64
MGE	272	M16	NE	M0000056	M16 Overhaul	150	GEMANT	48
MGE	272	M16	NE	M0000056	M16 Overhaul	150	GESUPV	16
MGE	275	M04	NE	M0000065	M4 Overhaul	150	GEMANT	768
MGE	275	M04	NE	M0000065	M4 Overhaul	150	GESUPV	40
MGE	275	M05	NE	M0000066	M5 Overhaul	150	GEMANT	768
MGE	275	M05	NE	M0000066	M5 Overhaul	150	GESUPV	40
MGE	275	M08	NE	M0000067	M8 Overhaul	150	GEMANT	1,440
MGE	275	M08	NE	M0000067	M8 Overhaul	150	GESUPV	40
MGE	257	N02	NE	M0000146	K2 Overhaul	150	GEMANT	666
MGE	257	N02	NE	M0000146	K2 Overhaul	150	GESUPV	16
MGE	260	N02	NE	M0000146	K2 Overhaul	150	GEMANT	444
MGE	260	N02	NE	M0000146	K2 Overhaul	150	GESUPV	16
MGE	275	M03	NE	M0000151	M3 Overhaul	150	GEMANT	160
MGE	275	M03	NE	M0000151	M3 Overhaul	150	GESUPV	16
MGE	275	G07	NE	M0000156	Cat7 Overhaul	150	GEMANT	100
MGE	257	N01	NE	M0000168	K1 Overhaul	150	GEMANT	696
MGE	257	N01	NE	M0000168	K1 Overhaul	150	GESUPV	20
MGE	260	N01	NE	M0000168	K1 Overhaul	150	GEMANT	504
MGE	260	N01	NE	M0000168	K1 Overhaul	150	GESUPV	20

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL LABOR HOURS DETAIL FOR MGE
TEST YEAR 2007 FORECAST

RA	ACT	LOC	IND	PROJ	PROJECT	EE	LBR CLASS	2007 TOTAL HOURS
MGE	257	N03	NE	M0000170	K3 Overhaul	150	GEMANT	800
MGE	257	N03	NE	M0000170	K3 Overhaul	150	GESUPV	16
MGE	260	N03	NE	M0000170	K3 Overhaul	150	GEMANT	532
MGE	260	N03	NE	M0000170	K3 Overhaul	150	GESUPV	16
MGE	257	N04	NE	M0000172	K4 Overhaul	150	GEMANT	799
MGE	257	N04	NE	M0000172	K4 Overhaul	150	GESUPV	16
MGE	260	N04	NE	M0000172	K4 Overhaul	150	GEMANT	533
MGE	260	N04	NE	M0000172	K4 Overhaul	150	GESUPV	16
MGE	272	M17	NE	M0000356	M17 OVERHAUL	150	GEMANT	48
MGE	272	M17	NE	M0000356	M17 OVERHAUL	150	GESUPV	8
MGE	272	M19	NE	M0000357	M19 OVERHAUL	150	GEMANT	48
MGE	272	M19	NE	M0000357	M19 OVERHAUL	150	GESUPV	8
TOTAL OVERHAUL LABOR HOURS - MGE								**12,575**

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL MATERIAL COSTS DETAIL FOR MGE

RA	ACT	LOC	IND	PROJ	PROJECT	EE		2007 OPERATING BUDGET
MGE	275	M06	NE	M0000022	M6 Overhaul	201	$	8,000
MGE	257	M15	NE	M0000047	M15 Overhaul	201	$	8,000
MGE	257	M15	NE	M0000047	M15 Overhaul	201	$	8,000
MGE	260	M15	NE	M0000047	M15 Overhaul	201	$	2,000
MGE	275	M12	NE	M0000050	M12 Overhaul	201	$	12,000
MGE	272	M16	NE	M0000056	M16 Overhaul	201	$	2,000
MGE	275	M04	NE	M0000065	M4 Overhaul	201	$	8,000
MGE	275	M05	NE	M0000066	M5 Overhaul	201	$	8,000
MGE	275	M08	NE	M0000067	M8 Overhaul	201	$	8,000
MGE	257	N02	NE	M0000146	K2 Overhaul	201	$	5,000
MGE	260	N02	NE	M0000146	K2 Overhaul	201	$	3,000
MGE	275	M03	NE	M0000151	M3 Overhaul	201	$	4,000
MGE	257	N01	NE	M0000168	K1 Overhaul	201	$	5,000
MGE	260	N01	NE	M0000168	K1 Overhaul	201	$	3,000
MGE	257	N03	NE	M0000170	K3 Overhaul	201	$	5,000
MGE	260	N03	NE	M0000170	K3 Overhaul	201	$	4,000
MGE	257	N04	NE	M0000172	K4 Overhaul	201	$	6,000
MGE	260	N04	NE	M0000172	K4 Overhaul	201	$	4,000
MGE	272	M17	NE	M0000356	M17 OVERHAUL	201	$	5,000
MGE	272	M19	NE	M0000357	M19 OVERHAUL	201	$	5,000
TOTAL OVERHAUL MATERIAL COSTS - MGE							**$**	**113,000**

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL OUTSIDE SERVICES COSTS DETAIL FOR MGE

RA	ACT	LOC	IND	PROJ	PROJECT	EE	2007 OPERATING BUDGET
MGE	257	M15	NE	M0000047	M15 Overhaul	501	$ 7,500
TOTAL OVERHAUL OUTSIDE SERVICES COSTS - MGE							**$ 7,500**

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL LABOR HOURS INVOLVING CAPITAL - MGE
TES YEAR 2007 FORECAST

RA	ACT	LOC	IND	PROJ	PROJECT	EE	LBR CLASS	2007 TOTAL HOURS
MGE	212	M14	NI	M0000629	M14 CT Controls	150	GEMANT	80
MGE	212	M14	NI	M0000629	M14 CT Controls	150	GESUPV	30
MGE	212	N01	NI	M0000423	K1 Generator Rotor Rewind	150	GEMANT	80
MGE	212	N01	NI	M0000558	K1 Generator Stator Rewind	150	GEMANT	80
MGE	260	N01	NI	M0000724	K1 Static Exciter	150	GEMANT	80
MGE	260	N01	NI	M0000724	K1 Static Exciter	150	GESUPV	40
MGE	260	N02	NI	M0000725	K2 Static Exciter	150	GEMANT	80
MGE	260	N02	NI	M0000725	K2 Static Exciter	150	GESUPV	40
TOTAL OVERHAUL LABOR HOURS INVOLVING CAPITAL - MGE								**510**

CA-IR-94

Ref: Response to CA-IR-1, MECO T-5, Attachment 7 – (MGB Projected Labor Hours).

a. Please provide calculations and detailed supporting information for the input overtime hours on Attachment 7, page 6 of 238 hours for GBSUPV, 12 hours during non-overhaul months plus overhaul hours for GBMANT and 202 hours for GBMATL.

b. Provide electronic spreadsheet files supporting the overhaul labor hours for MGB, indicating:

   1. Which values for each overhaul were carried forward into labor input hours, and

   2. Which materials costs (EE=201) were carried forward into MGB non-labor expense projections for the test year.

   3. Which outside services (EE=501) costs were carried forward into MGB non-labor expense projections for the test year.

c. Identify and describe which of the test year projected overhauls involve capital work, for which labor hours were charged to NI indicators.

d. Confirm that no normalization adjustments were made by MECO to restate projected 2007 overhaul schedules and work scope, even though non-labor overhaul costs were normalized.

MECO Response:

a. As stated on our response to CA-IR-92, page 1, the overtime hours are calculated based on the holiday and overhaul schedules. The overtime hours projected as it relates to overhaul are all work performed during a unit overhaul that is outside the designated work hours/days (i.e. hours worked in excess of 8 hours a day, 40 hours a week and during holidays). The spreadsheet on our CA-IR-1, MECO T-5, Attachment 7, page 5 is being re-submitted in a better format as our supporting document for the calculations of our overtime hours (see CA-IR-94 Attachment 1).

b. Please refer to CA-IR-94 Attachments 2 through 4 for electronic spreadsheet files supporting the overhaul labor hours for MGB. Please note that the non-labor expenses projections for the test year are not shown on these spreadsheets due to the normalization adjustments not being budgeted at this level of detail.

   1. Please refer to CA-IR-94 Attachment 2 for values for each overhaul that were carried forward into labor input hours for MGB,
   2. Please refer to CA-IR-94 Attachment 3 for material costs that were carried forward into MGBE non-labor expenses projections for 2007 operating budget, and
   3. Please refer to CA-IR-94 Attachment 4 for outside services costs that were carried forward into MGB non-labor expense projects for 2007 operating budget.

c. Please refer to CA-IR-94 Attachment 5 for the test year projected overhauls involving capital work, for which MGB labor hours were charged to NI indicators.

d. There was no normalization adjustments made to restate projected 2007 overhaul schedules and work scope, even though non-labor overhaul costs were normalized.

7 men (GBMANT)

*RA #	*Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	2007
Overhaul	Hours	977	577	128	128	1431	123	0	1120	840	280	1,110	833	7547
Capital	Hours	4	116	32	0	0	80	400	0	8	0	333	0	973
General Maint		**555.5**	**612.5**	**1200**	**1176**	**224.5**	**1039.5**	**844**	**180**	**284**	**1020**	**58.5**	**616**	**7810.5**
														0
Total Hrs		1536.5	1305.5	1360	1304	1655.5	1242.5	1244	1300	1132	1300	1501.5	1449	16330.5
Available		1288	1120	1232	1176	1288	1176	1232	1288	1120	1288	1232	1176	14616
OT		248.5	185.5	128	128	367.5	66.5	12	12	12	12	269.5	273	1714.5
Total Hrs Avail		**1536.5**	**1305.5**	**1360**	**1304**	**1655.5**	**1242.5**	**1244**	**1300**	**1132**	**1300**	**1501.5**	**1449**	**16330.5**

GBSUPV

*RA #	*Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	2007
Overhauls Hours		84	50	0	0	122	11	0	96	72	24	96	71	626
Capital Hours		0	40	16	0	0	0	24	0	0	0	0	0	80
General Maint		**135.5**	**96.5**	**166**	**174**	**115**	**166.5**	**158**	**94**	**94**	**166**	**118.5**	**136**	**1620**
														0
Total Hrs		219.5	186.5	182	174	237	177.5	182	190	166	190	214.5	207	**2326**
Available		184	160	176	168	184	168	176	184	160	184	176	168	**2088**
OT		35.5	26.5	6	6	52.5	9.5	6	6	6	6	38.5	39	**237.5**
Total Hrs Avail		**219.5**	**186.5**	**182**	**174**	**236.5**	**177.5**	**182**	**190**	**166**	**190**	**214.5**	**207**	**2325.5**

GBMATL

*RA #	*Labor Class #	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	2007
Overhauls Hours		0	0	0	0	0	0	0	0	0	0	0	0	0
Capital Hours		0	0	0	0	0	0	0	0	0	0	0	0	0
General Maint		**219.5**	**186.5**	**176**	**168**	**237**	**177.5**	**176**	**184**	**160**	**184**	**214.5**	**207**	**2290**
														0
Total Hrs		219.5	186.5	176	168	237	177.5	176	184	160	184	214.5	207	**2290**
Available		184	160	176	168	184	168	176	184	160	184	176	168	**2088**
OT		35.5	26.5	0	0	52.5	9.5	0	0	0	0	38.5	39	**201.5**
Total Hrs Avail		**219.5**	**186.5**	**176**	**168**	**236.5**	**177.5**	**176**	**184**	**160**	**184**	**214.5**	**207**	**2289.5**

Note: Added in an extra GBMANT personnel per Stan Kiyonaga on 07/10/06; available hours for this additional employee not accounted for on this calculation.

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL LABOR HOURS DETAIL FOR MGB
TEST YEAR 2007 FORECAST

RA	ACT	LOC	IND	PROJ	PROJECT	EE	LBR CLASS	2007 TOTAL HOURS
MGB	275	M12	NE	M0000050	M12 Overhaul	150	GBMANT	256
MGB	257	N02	NE	M0000146	K2 Overhaul	150	GBMANT	1,088
MGB	257	N02	NE	M0000146	K2 Overhaul	150	GBSUPV	94
MGB	260	N02	NE	M0000146	K2 Overhaul	150	GBMANT	466
MGB	260	N02	NE	M0000146	K2 Overhaul	150	GBSUPV	40
MGB	257	N01	NE	M0000168	K1 Overhaul	150	GBMANT	1,120
MGB	257	N01	NE	M0000168	K1 Overhaul	150	GBSUPV	96
MGB	260	N01	NE	M0000168	K1 Overhaul	150	GBMANT	1,120
MGB	260	N01	NE	M0000168	K1 Overhaul	150	GBSUPV	96
MGB	257	N03	NE	M0000170	K3 Overhaul	150	GBMANT	1,360
MGB	257	N03	NE	M0000170	K3 Overhaul	150	GBSUPV	117
MGB	260	N03	NE	M0000170	K3 Overhaul	150	GBMANT	583
MGB	260	N03	NE	M0000170	K3 Overhaul	150	GBSUPV	50
MGB	257	N04	NE	M0000172	K4 Overhaul	150	GBMANT	1,088
MGB	257	N04	NE	M0000172	K4 Overhaul	150	GBSUPV	93
MGB	260	N04	NE	M0000172	K4 Overhaul	150	GBMANT	466
MGB	260	N04	NE	M0000172	K4 Overhaul	150	GBSUPV	40
TOTAL OVERHAUL LABOR HOURS - MGB								**8,173**

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL MATERIAL COSTS DETAIL FOR MGB

RA	ACT	LOC	IND	PROJ	PROJECT	EE		2007 OPERATING BUDGET
MGB	257	N02	NE	M0000146	K2 Overhaul	201	$	22,061
MGB	257	N01	NE	M0000168	K1 Overhaul	201	$	18,362
MGB	257	N03	NE	M0000170	K3 Overhaul	201	$	20,082
MGB	257	N04	NE	M0000172	K4 Overhaul	201	$	20,795
TOTAL OVERHAUL MATERIAL COSTS - MGB							**$**	**81,300**

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL OUTSIDE SERVICES COSTS DETAIL FOR MGB

RA	ACT	LOC	IND	PROJ	PROJECT	EE	2007 OPERATING BUDGET
MGB	257	N02	NE	M0000146	K2 Overhaul	501	$ 15,000
MGB	257	N02	NE	M0000146	K2 Overhaul	501	$ 5,320
MGB	257	N01	NE	M0000168	K1 Overhaul	501	$ 20,000
MGB	257	N01	NE	M0000168	K1 Overhaul	501	$ 5,200
MGB	260	N01	NE	M0000168	K1 Overhaul	501	$ 48,000
MGB	260	N01	NE	M0000168	K1 Overhaul	501	$ 12,000
MGB	257	N03	NE	M0000170	K3 Overhaul	501	$ 5,125
MGB	257	N04	NE	M0000172	K4 Overhaul	501	$ 5,000
TOTAL OVERHAUL OUTSIDE SERVICES COSTS - MGB							**$ 115,645**

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL LABOR HOURS INVOLVING CAPITAL - MGB
TES YEAR 2007 FORECAST

RA	ACT	LOC	IND	PROJ	PROJECT	EE	LBR CLASS	2007 TOTAL HOURS
MGB	257	N03	NI	M0000788	K3 ID Fan	150	GBMANT	166
TOTAL OVERHAUL LABOR HOURS INVOLVING CAPITAL - MGB								**166**

CA-IR-95

Ref: Response to CA-IR-1, MECO T-5, Attachment 11 – (MGK Projected Labor Hours).

a. Please provide calculations and detailed supporting information for the input overtime hours on Attachment 11, page 6 of 406 hours for GKSUPV and 3,496 hours for GKOPER.

b. Provide electronic spreadsheet files supporting the assumed overhauls and allocation of MGK labor hours to each overhaul.

c. Explain the accounting for holidays worked, indicating whether additional hours are included or only labor costs for paid holidays worked.

d. Explain and provide supporting documentation for the addition of 420 hours for "estimated FMLA sick time."

MECO Response:

a. Please refer to CA-IR-95, Attachment 1, for a comparative summary of total overtime hours worked for each RA, for the 2007 test year forecast and historical years from 2001 through 2006. CA-IR-1, Attachment 11, page 6, indicated that the overtime hours were calculated based on historical overtime labor hours for GKSUPV and GKOPER labor classes. The average overtime hours for the three year period 2003 to 2005 for MGK were 6,736, compared to the 2007 forecast of 3,902. The calculations of the test year 2007 projected overtime hours were completed by the previous Power Supply Budget Analyst, who is no longer

employed by MECO and we have not been able to locate her workpapers for the overtime hours.

b. Please refer to CA-IR-95, Attachment 2, for electronic spreadsheet files supporting the assumed overhauls and allocation of MGK labor hours to each overhaul.

c. When the Company requires an employee to work on a designated holiday, the employee will receive eight hours holiday pay and, in addition, the employee is paid one and one-half times the regular straight time rate for the first eight hours, and two times the regular straight time rate for all overtime in excess of eight hours. In the case of a shift operator, the day is considered a holiday if fifty percent or more of the employee's time is worked on that day. Additional hours for the holidays worked were not included on the calculations of the holidays line items stated on CA-IR-1 Attachment 11, page 6, "Budget Assumptions for 2007-2008 budget years: MGK".

d. Please refer to CA-IR-95 Attachment 3, which reflects recorded FMLA sick time for GKOPER for 2003 through 2005 by employee number, with an average of 416 hours per year over the three year period, compared to the 2007 forecast of 420.

Maui Electric Company, Limited

Detail of Overtime Hours - Production Department
2001 - 2006 Recorded and 2007 Budget

	RECORDED						BUDGET
	2001	2002	2003	2004	2005	2006	2007
RA	Overtime	Overtime	Overtime	Overtime	Overtime	Overtime	Overtime
MGA	588	553	288	258	224	239	2,368
MGB	2,965	928	2,155	3,016	2,743	3,073	2,161
MGC	-	27	716	523	751	1,006	776
MGD	12,501	10,350	7,527	8,901	8,015	9,494	7,894
MGE	2,333	1,261	2,154	5,661	5,894	5,139	3,924
MGK	4,292	5,310	5,743	6,837	7,629	6,210	3,902
MGL	1,874	1,770	1,574	1,768	1,629	2,098	1,200
MGM	6,845	7,754	8,236	7,645	7,239	8,840	3,900
MGT	679	798	1,826	2,097	1,887	1,867	1,018
	32,077	28,749	30,217	36,707	36,010	37,966	27,143

SOURCE: T-11 (Eileen Wachi) MECO-WP-1106

NOTE: Difference due to rounding.

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL LABOR HOURS DETAIL FOR MGK
TEST YEAR 2007 FORECAST

RA	ACT	LOC	IND	PROJ	PROJECT	EE	LBR CLASS	2007 TOTAL HOURS
MGK	257	N02	NE	M0000146	K2 Overhaul	150	GKOPER	311
MGK	260	N02	NE	M0000146	K2 Overhaul	150	GKOPER	134
MGK	257	N01	NE	M0000168	K1 Overhaul	150	GKOPER	320
MGK	260	N01	NE	M0000168	K1 Overhaul	150	GKOPER	320
MGK	257	N03	NE	M0000170	K3 Overhaul	150	GKOPER	389
MGK	260	N03	NE	M0000170	K3 Overhaul	150	GKOPER	166
MGK	257	N04	NE	M0000172	K4 Overhaul	150	GKOPER	311
MGK	260	N04	NE	M0000172	K4 Overhaul	150	GKOPER	134
TOTAL OVERHAUL LABOR HOURS - MGK								**2,085**

Maui Electric Company, Limited

Detail of FMLA Sick Hours - Production Department - GKOPER
2003 - 2005 Recorded and 2003 - 2005 Average

			RECORDED			AVERAGE
EMPLOYEE ID	DATE OF LEAVE	LBR CLASS	2003	2004	2005	2003-2005
32305	12/21/05-12/31/05	GKOPER			72	24
Inactive	10/6/05-10/26/05	GKOPER			120	40
33687	12/20/05-1/19/06	GKOPER			160	53
32305	10/3/05-10/12/05	GKOPER			104	35
Inactive	5/19/05-7/25/05	GKOPER			560	187
32365	9/16/04-10/18/04	GKOPER		200		67
34505	8/1/03-8/3/03	GKOPER	32			11
TOTAL FMLA SICK TIME - MGK			**32**	**200**	**1,016**	**416**

NOTE: Due to the confidential information we are providing, the names of the employees are not disclosed on this attachment.

CA-IR-96

Ref: Response to CA-IR-1, MECO T-5, Attachment 13 – (MGM Projected Labor Hours).

a. Please provide calculations and detailed supporting information for the input overtime hours on Attachment 13, page 5 of 932 hours for GMSUPV, 168 for GMMSUP and 2,800 hours for GMOPER.
b. Provide calculations and detailed supporting information for the input sick hours on Attachment 13, page 5 of 1,600 hours for GMOPER.
c. Explain and provide supporting documentation for the addition of 400 hours for "estimated FMLA sick time" for GMOPER, in addition to the 1,600 hours for "normal" sick time.

MECO Response:

a. Please refer to CA-IR 96 Attachment 1, for a comparative summary of total overtime hours worked for each Power Supply RA, for the 2007 test year forecast and historical years from 2001 through 2006. CA-IR-1, Attachment 13, page 5, indicated that the overtime hours were calculated based on historical overtime labor hours for GMMSUP and GMOPER labor classes. The average overtime hours for the three year period 2003 to 2005 for MGM were 7,706, compared to the 2007 forecast of 3,900. The calculations of the test year 2007 projected overtime hours were completed by the previous Power Supply Budget Analyst, who is no longer employed by MECO, and we have not been able to locate her workpapers for the overtime hours.

b. Please refer to CA-IR 96 Attachment 2.

c. The addition of 400 hours for "estimated FMLA sick time" for GMOPER was calculated in addition to the 1,600 hours for "normal" sick time to account for retro-active sick hours under FMLA. CA-IR 96 Attachment 3 is provided, which reflects recorded FMLA retro sick hours for GMOPER for 2003 - 2005 by employee number, with an average of 363 hours per year over the three-year period.

Maui Electric Company, Limited

Detail of Overtime Hours - Production Department
2001 - 2006 Recorded and 2007 Budget

	RECORDED						BUDGET
	2001	2002	2003	2004	2005	2006	2007
RA	Overtime	Overtime	Overtime	Overtime	Overtime	Overtime	Overtime
MGA	588	553	288	258	224	239	2,368
MGB	2,965	928	2,155	3,016	2,743	3,073	2,161
MGC	-	27	716	523	751	1,006	776
MGD	12,501	10,350	7,527	8,901	8,015	9,494	7,894
MGE	2,333	1,261	2,154	5,661	5,894	5,139	3,924
MGK	4,292	5,310	5,743	6,837	7,629	6,210	3,902
MGL	1,874	1,770	1,574	1,768	1,629	2,098	1,200
MGM	6,845	7,754	8,236	7,645	7,239	8,840	3,900
MGT	679	798	1,826	2,097	1,887	1,867	1,018
	32,077	28,749	30,217	36,707	36,010	37,966	27,143

SOURCE: T-11 (Eileen Wachi) MECO-WP-1106

NOTE: Difference due to rounding.

Maui Electric Company, Limited

Calculation of Sick Hours - Production Department - GMOPER
2004 - 2006 Recorded, 2004 - 2006 Average and 2007 Budget

		RECORDED			AVERAGE	BUDGET	
Lbr Class	**Line item**	**2003**	**2004**	**2005**	**2003-2005**	**2007**	**Factor**
GMOPER	Holiday (25 people)	-	-	-		728	10.27%
GMOPER	Sick (25 people)	-	-	-		1,600	22.57%
GMOPER	Vacation (25people)	-	-	-		3,472	48.98%
GMSSUP	DO Supervisor Holiday	-	-	-		104	1.47%
GMSSUP	DO Supervisor Vacation	-	-	-		200	2.82%
GMSUPV	Supervisor Holiday (4 people)	-	-	-		104	1.47%
GMSUPV	Supervisor Sick (4 people)	-	-	-		160	2.26%
GMSUPV	Supervisor Vacation (4 people)	-	-	-		720	10.16%
__NPW WC	MGM098MAUNDNMZZZZZZ107	6,699	6,650	7,385	6,911	-	0.00%
__NPW WC	MGM098MAUNDNMZZZZZZ108	0	244	19	87	-	0.00%
		6,699	6,893	7,404	6,999	7,088	100.00%

Analysis of the calculation of sick hours for 2007 Test Year Forecast:

2003 Recorded	6,699	x	22.57%	=	1,512.09
2004 Recorded	6,893	x	22.57%	=	1,556.08
2005 Recorded	7,404	x	22.57%	=	1,671.32
					4,739.50
				+	3
Total Sick Hours for 2007 Test Year Forecast - GMOPER					**1,579.83**

Maui Electric Company, Limited

Detail of FMLA Retro Sick Hours - Production Department - GMOPER
2003 - 2005 Recorded and 2003 - 2005 Average

EMPLOYEE (1)	LABOR CLASS	DATE OF LEAVE	RECORDED 2003	RECORDED 2004	RECORDED 2005	AVERAGE 2003-2005
33400	GMOPER	10/7/07 - 11/7/04		160		53
33363	GMOPER	12/17/04 - 12/30/04		56		19
33363	GMOPER	1/1/05 - 1/3/05			24	8
33299	GMOPER	3/22/05 - 5/3/05			232	77
32206	GMOPER	8/22/03 - 8/23/03	16			5
32206	GMOPER	11/30/05 - 12/11/05			80	27
32424	GMOPER	12/15/03 - 12/30/03	80			27
32477	GMOPER	8/24/05 - 9/7/05			80	27
32489	GMOPER	3/16/05 - 3/20/05			32	11
32522	GMOPER	2/13/05 - 2/28/05			80	27
32523	GMOPER	6/24/04 - 7/6/04		80		27
32483	GMOPER	9/15/2005			8	3
32536	GMOPER	7/31/04 - 8/10/04		80		27
32541	GMOPER	2/5/04 - 2/18/04		80		27
TOTAL FMLA RETRO SICK HOURS - GMOPER			**96**	**456**	**536**	**363**

NOTES:
1) Due to the confidential information we are providing, the names of the employees are not disclosed on this attachment.

CA-IR-97

Ref: Response to CA-IR-1, MECO T-5, Attachment 14 – (MGT Projected Labor Hours).

a. Please provide calculations and detailed supporting information for the input overtime hours on Attachment 14, page 5 of 744 hours for GTSUPV and 274 hours for GTOPER.

b. Provide electronic spreadsheet files supporting the assumed overhauls and allocation of MGT labor hours to each overhaul.

c. Explain the accounting for holidays worked, indicating whether additional hours are included or only labor costs for paid holidays worked.

MECO Response:

a. Please refer to CA-IR-95, Attachment 1, for a comparative summary of total overtime hours worked for each Power Supply RA, for the 2007 test year forecast and historical years from 2001 through 2006. CA-IR-1 Attachment 14, page 5, indicated that overtime hours were calculated based on historical overtime labor hours for GTSUPV and GTOPER labor classes. The average overtime hours for the three year period 2003 to 2005 for MGT were 1,936, compared to the 2007 forecast of 1,018. The calculations of the test year 2007 projected overtime hours were completed by the previous Power Supply Budget Analyst, who is no longer with MECO, and we have not been able to locate the workpapers for the overtime hours.

b. Please refer to CA-IR-97, Attachment 1, for electronic spreadsheet files supporting the assumed overhauls and allocation of MGT labor hours to each overhaul.

c. Please refer to our response on CA-IR-95, paragraph c., for an explanation of the accounting for holidays worked. Additional hours for the holidays worked were not included on the calculations of the holidays line items stated on CA-IR-1, Attachment 14, page 5, "Budget Assumptions for 2007-2008 budget years: MGT".

Maui Electric Company, Limited

PRODUCTION OPERATION & MAINTENANCE
OVERHAUL LABOR HOURS DETAIL FOR MGT
TEST YEAR 2007 FORECAST

RA	ACT	LOC	IND	PROJ	PROJECT	EE	LBR CLASS	2007 TOTAL HOURS
MGT	275	G08	NE	M0000030	Cat8 Overhaul	150	GTOPER	112
MGT	275	G08	NE	M0000030	Cat8 Overhaul	150	GTSUPV	30
MGT	275	G09	NE	M0000031	Cat9 Overhaul	150	GTOPER	112
MGT	275	G09	NE	M0000031	Cat9 Overhaul	150	GTSUPV	30
MGT	275	G07	NE	M0000156	Cat7 Overhaul	150	GTOPER	112
MGT	275	G07	NE	M0000156	Cat7 Overhaul	150	GTSUPV	30
TOTAL OVERHAUL LABOR HOURS - MGT								**426**

CA-IR-98

Ref: CA-IR-1, T-5 – Power Supply Department Labor Spreadsheet Calculations.

a. Please confirm or clarify the following understandings from interviews of MECO production department personnel:

1. MECO Power Supply Department employee counts have been relatively stable for many years and are not proposed to change, except for the addition of two positions described at T-5, page 24.

2. MECO's rate case forecast assumes no vacancies for any of the 123 employees forecast in the test year.

3. Available labor hours for the assumed staffing level are converted into available hours, assuming estimated amounts of overtime as well as estimated amounts of non-productive holiday, vacation and sick pay.

4. Available operator and administrative hours are generally "spread" across activity codes, based upon historical distributions of such hours.

5. Total available maintenance hours are compared to overhaul schedules and any hours not required for overhauls can be used for general plant maintenance.

6. If overhaul schedules cannot be met with internal staff, may need to defer general maintenance, use contractors or take risks associated with deferring an overhaul.

7. There is always a backlog of non-project plant maintenance work, some of which can be scheduled to do during a scheduled overhaul, some during a shorter maintenance outage and other projects do not require an outage.

8. There are also work requirements for capital projects documented in PIA/PIF forms, where staff can charge hours to capital accounts (Indicator NI or NR).

b. Please provide, for the 2007 test year forecast and for historical years 2004, 2005 and in each year 2006, a comparative summary of total hours worked for each RA, broken down in the following categories for each RA:

1. Total expensed labor hours – straight time.
2. Total expensed labor hours – overtime.
3. Total capitalized labor hours – straight time.
4. Total capitalized labor hours – overtime.
5. Total compensated absence hours (holiday, vacation, overtime).
6. Any additional categories of labor hours required to equal total paid hours.

MECO Response:

a. 1. No. MECO Power Supply Department employee counts have been relatively stable for many years , Each position in the 2007 test year staffing levels that was in addition to the actual positions as of December 31, 2005 was discussed by Mr. Ribao's testimony, T-5 at pages 37 through 41. Specifically, with respect to the Power Supply Department, the current and anticipated work demands that would be addressed by the 4 additional positions, namely a Renewable Energy Engineer position in MGA, a Senior Helper position in MGB, a Maintenance Electrician in MGE, and an Operator Helper in MGL, were discussed in detail by Mr. Ribao at T-5, pages 37-39. The decrease of 2 positions in MGK was also explained at T-5, page 39. All of these new positions have been filled except for the Operator Helper in MGL. As noted on pages 38 and 39 of MECO T-5, we originally proposed to add an Operator Helper position in MGL; however, after considering our maintenance and operating needs, we have decided to add a Maintenance Electrician. This position will help support some of the electrical work, as well as, the relief operating duties.

2. Yes, MECO's rate case forecast as assumes no vacancies for any of the 123 employees in the test year.

3. Yes, available labor hours for the assumed staffing level were converted into available hours, overtime as well as estimated amounts of non-productive holiday, vacation and sick pay.
4. Yes, available operator and administrative hours are generally across activity codes, based upon historical distribution of such hours.
5. Yes, total maintenance hours are compared to overhaul schedules and any hours not required for overhauls would be used for general plant maintenance.
6. Yes, if overhaul schedules cannot be met with internal resources, there may be a need to defer general maintenance, utilize contractors or take a risk with deferring an overhaul.
7. Yes, backlogged non-project plant maintenance work would be done during a scheduled overhaul, maintenance outage and in some cases does not require and outage.
8. Yes, there are capital projects where staff can charge to capital accounts.

b. Separate labor hour data for straight-time capital, straight time O&M, overtime capital and overtime O&M cannot be produced because labor costing is performed with the use of standard labor rates, which allocate overtime and other premium pay across all productive labor hours. However, in an effort to provide information to facilitate the Consumer Advocate's review of MECO's rate case, a comparative summary of total hours worked for each RA, broken down between capital and O&M for the years 2004 through 2006 for recorded data and the 2007 Operating Budget, is

provided in Attachment 1. In addition, Attachment 2 provides a summary of actual incurred straight time and overtime labor hours for each RA labor category for calendar years 2004, 2005 and 2006, as well as the comparable labor hour data included in the Production's 2007 test year rate case forecast. This summary includes total labor hours, not labor hours allocated between O&M, capital and other accounts. Please note that page 3 of Attachment 2 does not tie to MECO-WP-1106 (pages 3 and 4) as there was an error in calculating the straight time and overtime hours in 2007 forecast; a corrected MECO-WP-1106 will be filed at a later date. A summary of total hours worked for each RA, relating to total compensated absence hours (holiday, vacation and sick) is not included, however, the information requested will be provided when the data becomes available. There are no any additional categories of labor hours required to equal total paid hours.

Maui Electric Company, Limited

PRODUCTION LABOR HOURS - CAPITAL vs O&M
2004 - 2006 RECORDED, 2007 BUDGET

			(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
			RECORDED						BUDGET	
			2004		2005		2006		2007	
Line	RA	Acct Grp Descr	Hours	%	Hours	%	Hours	%	Hours	%
1	MGA	Capital	828	5.52%	1,105	7.09%	1,055	6.61%	412	2.83%
2	MGA	O&M	14,161	94.48%	14,476	92.91%	14,895	93.39%	14,119	97.17%
3	MGA	Total	14,989	100.00%	15,581	100.00%	15,950	100.00%	14,531	100.00%
4										
5	MGB	Capital	1,247	6.75%	284	1.56%	256	1.43%	1,053	5.16%
6	MGB	O&M	17,212	93.25%	17,882	98.44%	17,650	98.57%	19,353	94.84%
7	MGB		18,459	100.00%	18,166	100.00%	17,905	100.00%	20,406	100.00%
8										
9	MGC	Capital	14	0.27%	53	0.83%	37	0.58%	280	4.52%
10	MGC	O&M	4,948	99.73%	6,309	99.17%	6,396	99.42%	5,912	95.48%
11	MGC		4,962	100.00%	6,362	100.00%	6,433	100.00%	6,192	100.00%
12										
13	MGD	Capital	94	0.22%	21	0.05%	167	0.44%	248	0.59%
14	MGD	O&M	42,714	99.78%	38,849	99.95%	38,033	99.56%	41,706	99.41%
15	MGD		42,807	100.00%	38,870	100.00%	38,200	100.00%	41,954	100.00%
16										
17	MGE	Capital	2,898	12.35%	1,607	6.51%	1,512	6.51%	1,270	4.94%
18	MGE	O&M	20,570	87.65%	23,086	93.49%	21,710	93.49%	24,420	95.06%
19	MGE		23,468	100.00%	24,693	100.00%	23,221	100.00%	25,690	100.00%
20										
21	MGK	Capital	160	0.37%	-2	0.00%	0	0.00%	0	0.00%
22	MGK	O&M	43,010	99.63%	44,622	100.00%	44,414	100.00%	43,310	100.00%
23	MGK		43,170	100.00%	44,621	100.00%	44,414	100.00%	43,310	100.00%
24										
25	MGL	Capital	0	0.00%	0	0.00%	0	0.00%	0	0.00%
26	MGL	O&M	10,643	100.00%	10,647	100.00%	10,469	100.00%	12,528	100.00%
27	MGL		10,643	100.00%	10,647	100.00%	10,469	100.00%	12,528	100.00%
28										
29	MGM	Capital	12	0.02%	8	0.01%	423	0.71%	0	0.00%
30	MGM	O&M	59,200	99.98%	59,552	99.99%	59,544	99.29%	59,311	100.00%
31	MGM		59,212	100.00%	59,560	100.00%	59,967	100.00%	59,311	100.00%
32										
33	MGT	Capital	816	6.01%	859	6.25%	678	4.87%	127	0.98%
34	MGT	O&M	12,759	93.99%	12,895	93.75%	13,257	95.13%	12,866	99.02%
35	MGT		13,575	100.00%	13,754	100.00%	13,935	100.00%	12,993	100.00%
36										
37	**Production**	**Capital**	**6,067**	**2.62%**	**3,935**	**1.69%**	**4,127**	**1.79%**	**3,390**	**1.43%**
38	**Production**	**O&M**	**225,216**	**97.38%**	**228,318**	**98.31%**	**226,366**	**98.21%**	**233,525**	**98.57%**
39	**Production**	**Total**	**231,283**	**100.00%**	**232,253**	**100.00%**	**230,492**	**100.00%**	**236,914**	**100.00%**

Maui Electric Company, Limited

Straight and Overtime Hours - Production Department
2004 - 2006 Recorded and 2007 Budget

	RECORDED						BUDGET	
	2004		2005		2006		2007	
RA	ST	OT	ST	OT	ST	OT	ST	OT
MGA	22,842	258	22,948	224	23,592	239	25,056	2,368
MGB	20,798	3,016	20,885	2,743	20,752	3,073	22,968	2,161
MGC	5,028	523	6,230	751	6,216	1,006	6,264	776
MGD	43,340	8,901	42,899	8,015	42,056	9,494	43,848	7,894
MGE	20,315	5,661	22,866	5,894	22,100	5,139	25,056	3,924
MGK	42,524	6,837	44,643	7,629	44,397	6,210	43,848	3,902
MGL	10,376	1,768	10,364	1,629	10,072	2,098	12,528	1,200
MGM	60,572	7,645	61,755	7,239	59,965	8,840	62,640	3,900
MGT	14,164	2,097	14,622	1,887	15,034	1,867	14,616	1,018
TOTAL	239,958	36,707	247,211	36,010	244,184	37,966	256,824	27,142

SOURCE: T-11 (Eileen Wachi) MECO WP-1106

Maui Electric Company, Limited

Straight and Overtime Hours - Production Department
2004 - 2006 Recorded and 2007 Budget
Maui Division

MAUI DIVISION

	RECORDED						BUDGET	
	2004		2005		2006		2007	
RA	ST	OT	ST	OT	ST	OT	ST	OT
MGA	22,842	258	22,948	224	23,592	239	25,056	2,368
MGB	20,798	3,016	20,885	2,743	20,752	3,073	22,968	2,161
MGC	5,028	523	6,230	751	6,216	1,006	6,264	776
MGD	43,340	8,901	42,899	8,015	42,056	9,494	43,848	7,894
MGE	20,315	5,661	22,866	5,894	22,100	5,139	25,056	3,924
MGK	42,524	6,837	44,643	7,629	44,397	6,210	43,848	3,902
MGM	60,572	7,645	61,755	7,239	59,965	8,840	62,640	3,900
TOTAL	215,418	32,841	222,225	32,495	219,078	34,001	229,680	24,925

SOURCE: T-11 (Eileen Wachi) MECO WP-1106

Maui Electric Company, Limited

Straight and Overtime Hours - Production Department
2004 - 2006 Recorded and 2007 Budget
Lanai and Molokai Division

LANAI DIVISION

	RECORDED						BUDGET	
	2004		2005		2006		2007 [1]	
RA	ST	OT	ST	OT	ST	OT	ST	OT
MGL	10,376	1,768	10,364	1,629	10,072	2,098	12,528	1,200
TOTAL	10,376	1,768	10,364	1,629	10,072	2,098	12,528	1,200

MOLOKAI DIVISION

	RECORDED						BUDGET	
	2004		2005		2006		2007	
RA	ST	OT	ST	OT	ST	OT	ST	OT
MGT	14,164	2,097	14,622	1,887	15,034	1,867	14,616	1,018
TOTAL	14,164	2,097	14,622	1,887	15,034	1,867	14,616	1,018

NOTE:

(1) This schedule will not tie to MECO-WP-1106 (pages 3 and 4) as there was an error in calculating the straight time and overtime hours on MECO WP-1106; a corrected MECO WP-1106 will be filed a later date.

CA-IR-99

Ref: CA-IR-2, T-5; Attachments 1,3,4,19 (Non-Labor ICB Charges from HECO).

a. Please confirm that each of the referenced charges allocated into the MECO non-labor budget conform to the pending HECO rate case budget assumptions and cost distributions (HECO Indicators BE).
b. Please provide actual comparable historical HECO-charged amounts for each category of service to MECO for the years 2003, 2004, 2005 and 2006 in relation to the test year proposed expense levels.
c. Explain the reasons for any significant fluctuations in historical charges or apparent inconsistencies with the proposed test year charges, indicating whether further adjustment is required for any items.

MECO Response:

a. The referenced charges allocated into the MECO non-labor budget were provided to MECO (by HECO) as representing the HECO budget.

b. The actual historical HECO-charged amounts for each of the four categories are provided on page 2 of this response.

c. This information will be provided when the work is complete.

Acct Blk Descr	NARUC	RA	Act	Loc	Ind	EE	2003 Actuals	2004 Actuals	2005 Actuals	2006 Actuals	2007 Budget
Prod Oper	557	MGA	122	MAU	NE	550					13,599
Prod Oper	557	MGA	122	MAU	NE	550					41,692
Prod Oper	557	MGA	122	MAU	NE	550		113,363	30,834	45,678	
Prod Oper	557	MGA	122	MAU	NE	550	(629)				
Prod Oper	557	MGA	122	MAU	NE	550					7,707
Prod Oper	557	MGA	122	MAU	NE	550					4,310
Attachment 1		**122 Total**					**(629)**	**113,363**	**30,834**	**45,678**	**67,309**
Prod Oper	546	MGA	201	MNS	NE	550					99,786
Prod Oper	546	MGA	201	MNS	NE	550		42,104	51,509	36,992	
Prod Oper	546	MGA	201	MNS	NE	550	38,573				
Attachment 3		**201 (MNS) Total**					**38,573**	**42,104**	**51,509**	**36,992**	**99,786**
Prod Oper	500	MGA	201	NST	NE	550					102,420
Prod Oper	500	MGA	201	NST	NE	550		42,104	51,509	41,714	
Prod Oper	500	MGA	201	NST	NE	550	38,573				
Attachment 4		**201 (NST) Total**					**38,573**	**42,104**	**51,509**	**41,714**	**102,420**
Prod Oper	506	MGA	738	MPO	NE	550		53,916	55,556	51,757	
Prod Oper	506	MGA	738	MPO	NE	550	45,212				
Prod Oper	506	MGA	738	MPO	NE	550					94,057
Attachment 19		**738 Total**					**45,212**	**53,916**	**55,556**	**51,757**	**94,057**

CA-IR-100

Ref: CA-IR-2, MECO T-5; Attachment 76; (KPP Berm Wall).

Please explain why this work described in March 2005 estimate documentation was not funded and completed prior to the 2007 test year and explain all reasons why such work is reasonably viewed as normal, recurring and not properly normalized to account for the relative infrequency of such activity.

MECO Response:

In March 2005 MECO obtained an estimate to repair the KPP berm wall (CA-IR-2, MECO T-5; Attachment 76). Based on the quotation received, $125,000 was budgeted to perform the work in 2006. The work was subsequently deferred to 2007 because of O&M budget reductions in 2006. Also, the purchase order for the current repair has been increased from $125,000 to $200,000.

Based on an assessment of future structural maintenance expense levels (berm wall repairs fall into the structural maintenance expense budget category) at KPP, MECO believes that a normalization adjustment for the 2007 KPP berm wall repair is not appropriate. In each of the years 2008, 2009, and 2010 one of the three KPP bulk fuel tanks will undergo an out-of-service inspection/repair. These tank inspections were last performed ten years ago (1998-2000) at an approximate cost of $210,000. MECO does not have an up-to-date quotation for this work at this time, but anticipates a substantial increase for this service. In addition, the berm wall repair presently ongoing involves approximately 40% of the berm wall. Approximately one half of the remaining 60% of the wall will likely require repair in the next five years.