

**Exh. DCG-12C  
Dockets UE-170033/UG-170034  
Witness: David C. Gomez  
CONFIDENTIAL VERSION**

**BEFORE THE WASHINGTON  
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,**

**Complainant,**

**v.**

**PUGET SOUND ENERGY,**

**Respondent.**

**DOCKETS UE-170033 and  
UG-170034 (*Consolidated*)**

**EXHIBIT TO  
TESTIMONY OF**

**David C. Gomez**

**STAFF OF  
WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION**

**PSE's Response to Staff DR No. 177, Attachment A, PSE's 2016 CAISO VOM & MMA  
Workpapers**

**CONFIDENTIAL PER PROTECTIVE ORDER – CONFIDENTIAL VERSION**

**Due to Size, Exhibit DCG-12C is provided in  
electronic format**

## 2016 VOM & MMA SUMMARY

Plant Name	Variable Operations and Maintenance Costs		Major Maintenance Adder		
			Minimum Load MMA		
	\$/MWh <i>Calculated</i>	\$/MWh <i>EIM Default</i>	\$/Hr <i>Calculated</i>	\$/Hr <i>EIM negotiated</i>	\$/Start
<b>Combined Cycle Generation Plants</b>					
Encogen,3X1	4.02	na	267.13	287.28	
Sumas,1x1	2.58	2.80	216.39	222.59	
Ferndale, 2X1	2.80	2.80	351.50	351.40	
Mint Farm,1x1	1.52	2.80	1,019.41	873.04	
Goldendale,1x1	2.50	2.80	784.58	784.59	
<b>Single Cycle Generation Plants</b>					
			Start MMA		
			\$/start		\$/start
			<i>EIM Negotiated</i>	<i>Calculated, uninflated</i>	
Whitehorn 2	4.27	4.80	5,019.64	4,167.09	
Whitehorn 3	4.27	4.80	5,019.64	4,167.09	
Frederickson 1	4.81	4.80	5,019.64	5,477.04	
Frederickson 2	4.81	4.80	5,019.64	5,477.04	
Fredonia 1	3.19	4.80	6,152.74	6,616.87	
Fredonia 2	3.19	4.80	6,152.74	6,616.87	
Fredonia 3	4.58	4.80	4,166.67	6,250.00	
Fredonia 4	4.58	4.80	4,166.67	6,250.00	

2016      2012      2.50%

Capacity	MMA Start up, \$/MW/Strt \$2016	MMA Start up, \$/MW/Strt \$2012
74	\$ 67.60	61.24
74	\$ 67.60	61.24
74	\$ 67.60	61.24
74	\$ 67.60	61.24
104	\$ 59.24	53.67
104	\$ 59.24	53.67
55	\$ 75.35	68.26
55	\$ 75.35	68.26

Document Notes

**Variable Operations and Maintenance**

Variable Operations data is found in and extracted from BI. Operations data consists of Demin Chemicals, HRS Chemicals, Emissions Chemicals, Makeup Water, Consumables per PSE's interpretation of Final Methodology for Calculating Variable Operation and Maintenance Cost under the Variable Cost Option. It will not consist of any fixed costs such as regulatory work, nor will it consist of inspection work to assess equipment condition. But will include corrective work stemming from said inspections.

All corrective maintenance work is considered variable since the costs would not be incurred if the plant did not run. Operations work will not be included.

Any maintenance work performed on the admin building and the parking lot are not included. Maintenance work performed on the shop and warehouse are, since both are needed for power generation.

Besides BI, PowerGADS is used to find Net MW hours. SAP PM is the CMMS where corrective maintenance data is derived from.

A three year moving average is used for VOM to smooth out the data outlier peaks or valleys.

**SAP Query Parameters**

Scheduled Outage Work 2013 thru 2015

Background: IW39 - F/L = ENR-E-THRM-XXX, sched start date three year MA, backward looking, Notification is not null. Actual costs >\$0. Historical and Completed orders only. Maintenance performed on admin bldg and grounds are not included. Sorted by actual costs from oldest to newest. Review MAT code "GEN" to find VM. Using PowerGads net actual generation, NAG. Do not include MAT Code 4FC, 4FL for scheduled outage work.

**Power Gads Query Parameters**

Gads Reports, Operating, years 13,14 & 15 - Jan through Dec and the MSG units in question

**BI Query Parameters**

Variable Operating Costs, reporting period 001/2013 - 012/2015, PACE location = plant in question, Budget Version = Original Budget, vendors tab

**Major Maintenance Adders**

For combined cycle plants, MMA will be calculated in \$/hr. This is the preferred methodology based on the typical CC run profile.

Service hours going back to when the unit was first acquired or when PowerGADS started tracking this, is used.

Likewise, all major maintenance events documented as many years back assuming one can find commensurate services hours for same period will be used.

Capital, Expensed, Deferred and parts consumed/repared are included.

For Single Cycles plants, MMA is documented as a \$/start value because of the typical run profile of a peaker. The unanimous decision amongst all peaker O&M Supervisors is to have this value calculated on a \$/start basis to be in agreement with GE GER3620M manual - one exception is the P&W FT-6's, \$/Hr, see SB#96B03 rev. H

**From:** Pihl, Hjalmar <HPIHL@caiso.com> on behalf of MMAs <MMAs@caiso.com>  
**Sent:** Monday, September 26, 2016 5:04 PM  
**To:** Marcelo, Marlyn; Espinosa, Ed  
**Cc:** MMAs; Westendorf, Kyle; Collins, Keith; Pihl, Hjalmar  
**Subject:** PSE MMAs

Marlyn and Ed,

In preparation for PSE's EIM go-live, I just wanted to confirm that we are on the same page about all the approved MMAs and O&M values.

The following MMA values have been approved and are currently scheduled to be active in production on the go-live date:

NAME	RES_ID	CONFIG_ID	Start MMA	MinLoad M
Encogen	ESR_1_UNITS	ESR_1_UNITS_1X1		
Encogen	ESR_1_UNITS	ESR_1_UNITS_2X1		
Encogen	ESR_1_UNITS	ESR_1_UNITS_3X1		
Ferndale	FER_1_UNITS	FER_1_UNITS_1X1		
Ferndale	FER_1_UNITS	FER_1_UNITS_2X1		
Ferndale	FER_1_UNITS	FER_1_UNITS_2X1DUCT		
Frederickson 1	FR1_1_GEN1		5019.64	
Frederickson 2	FR2_1_GEN2		5019.64	
Fredonia 1	FD1_2_GEN1		6152.74	
Fredonia 2	FD2_2_GEN2		6152.74	
Fredonia 3	FD3_1_GEN3		4166.67	
Fredonia 4	FD4_1_GEN4		4166.67	
Whitehorn 2	WH2_1_GEN2		5019.64	
Whitehorn 3	WH3_1_GEN3		5019.64	
Goldendale	GLD_2_UNITS	GLD_2_UNITS_1X1		
Goldendale	GLD_2_UNITS	GLD_2_UNITS_1X1DUCT		
Mint Farm	MTF_2_UNITS	MTF_2_UNITS_1X1		
Mint Farm	MTF_2_UNITS	MTF_2_UNITS_1X1DUCT		
Sumas	SMS_1_UNITS			

In addition, Encogen has a custom O&M value of \$4.02. All other resources use the default O&M values.

Please let me know if you have any questions or concerns.

Thank you,  
Hjalmar



Thanks, Marlyn

I concur.

Hjalmar, please use the same inflation adjustments discussed in June.

Ed

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**From:** Marcelo, Marlyn  
**Sent:** Wednesday, September 21, 2016 12:52 PM  
**To:** Espinosa, Edward  
**Cc:** MMAs; Hjalmar Pihl  
**Subject:** RE: Goldendale and Mint Farm MMAs

I am okay with the escalation rates to be applied to steam turbine costs.

Sent from my Windows Phone

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**From:** [Espinosa, Edward](#)  
**Sent:** 9/21/2016 1:02 PM  
**To:** [Marcelo, Marlyn](#)  
**Cc:** [MMAs](#); [Hjalmar Pihl](#)  
**Subject:** RE: Goldendale and Mint Farm MMAs

Hello Marlyn,

Here is an excerpt from the work sheet applying escalation to major maintenance events for your reference.

	A	B	C	D	E	F	In
.	Resource	Maintenance Action	Cost	Year	Hours	Starts	
0	Goldendale	CTG Major Inspection	25893568	2016	48000		
1	Goldendale	STG Minor Inspection	550000	2014	24000		
2	Goldendale	STG Major Inspection	1905255	2014	48000		
3	Mint Farm	CTG Hot Gas Path Inspection	8734003	2016	24000		
4	Mint Farm	CTG Major Inspection	13132808	2017	48000		
5	Mint Farm	STG Summary Inspection	963690	2014	14000		
6	Mint Farm	STG Full Scale Inspection	1927380	2014	28000		
7	Mint Farm	STG Precision Inspection	608930	2019	70000		
8	Sumas	CTG Combustion Inspection	510771	2015	8000		
9	Sumas	CTG Hot Path Inspection	1606527	2010	24000		
0	Sumas	CTG Major Inspection	2487452	2017	48000		
1	Sumas	STG Minor Inspection	221349	2017	24000		
2	Sumas	STG Major Inspection	1178651	2017	48000		

Thanks,

Ed

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**From:** Pihl, Hjalmar [<mailto:HPIHL@caiso.com>] On Behalf Of MMAs  
**Sent:** Tuesday, September 20, 2016 2:46 PM  
**To:** Marcelo, Marlyn; Espinosa, Edward

Cc: MMAs  
Subject: RE: Goldendale and Mint Farm MMAs

Marlyn and Ed,

Just to follow up on our call from earlier today: we did not mention the inflation adjustment of the steam turbine costs. I suggest using the same inflation adjustment as we discussed back in June. This will result in steam turbine costs components of \$64.02 per hour for Goldendale, and \$149.12 per hour for Mint Farm.

Please let me know if you have any concerns with this.

Thank you,  
Hjalmar

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**From:** Marcelo, Marlyn [<mailto:marlyn.marcelo@pse.com>]  
**Sent:** Tuesday, September 20, 2016 10:15 AM  
**To:** MMAs <[MMAs@caiso.com](mailto:MMAs@caiso.com)>  
**Cc:** Espinosa, Edward <[Ed.Espinosa@pse.com](mailto:Ed.Espinosa@pse.com)>  
**Subject:** RE: Goldendale and Mint Farm MMAs

That's great. See you then.

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**From:** Pihl, Hjalmar [<mailto:HPIHL@caiso.com>] **On Behalf Of** MMAs  
**Sent:** Tuesday, September 20, 2016 10:15 AM  
**To:** Marcelo, Marlyn; MMAs  
**Cc:** Espinosa, Edward  
**Subject:** RE: Goldendale and Mint Farm MMAs

I could be ready at 10.20. Please call in at 1-866-528-2256, access code 1908684.

Hjalmar

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**From:** Marcelo, Marlyn [<mailto:marlyn.marcelo@pse.com>]  
**Sent:** Tuesday, September 20, 2016 10:05 AM  
**To:** MMAs <[MMAs@caiso.com](mailto:MMAs@caiso.com)>  
**Cc:** Espinosa, Edward <[Ed.Espinosa@pse.com](mailto:Ed.Espinosa@pse.com)>  
**Subject:** RE: Goldendale and Mint Farm MMAs

Hi Hjalmar,

I am traveling to Colstrip this afternoon and won't be back until Thursday. Would right now be too soon?

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**From:** Pihl, Hjalmar [<mailto:HPIHL@caiso.com>] **On Behalf Of** MMAs  
**Sent:** Tuesday, September 20, 2016 9:57 AM  
**To:** Marcelo, Marlyn  
**Cc:** Crowley, Colin - Marketing; Blanke, Amelia; Westendorf, Kyle; Collins, Keith; Espinosa, Edward; Roberts, Ron; MMA  
**Subject:** RE: Goldendale and Mint Farm MMAs

Good morning Marlyn,

Thank you for submitting the revised MMA applications with supporting documentation and calculations.

We have reviewed the documentation and have a few questions. We would like to better understand the mildest payments associated with the optimization package. Specifically, we would like to better understand what these payments are for, and how frequently they are incurred. Further, we have identified an issue with the methodol how the hourly fee is represented in the spreadsheet.

Do you have time for a call to discuss these issues at some point this week? My calendar is quite flexible this we please let me know what times would work for you.

Thank you,  
Hjalmar

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**From:** Pihl, Hjalmar On Behalf Of MMAs  
**Sent:** Thursday, September 15, 2016 4:28 PM  
**To:** 'Marcelo, Marlyn' <[marlyn.marcelo@pse.com](mailto:marlyn.marcelo@pse.com)>  
**Cc:** Crowley, Colin <[colin.crowley@pse.com](mailto:colin.crowley@pse.com)>; Blanke, Amelia <[ablanke@caiso.com](mailto:ablanke@caiso.com)>; Westendorf, Kyle <[KWESTENDORF@caiso.com](mailto:KWESTENDORF@caiso.com)>; Collins, Keith <[kcollins@caiso.com](mailto:kcollins@caiso.com)>; Espinosa, Edward <[Ed.Espinosa@pse.com](mailto:Ed.Espinosa@pse.com)>; I Ron <[Ron.Roberts@pse.com](mailto:Ron.Roberts@pse.com)>; MMAs <[MMAs@caiso.com](mailto:MMAs@caiso.com)>  
**Subject:** RE: Goldendale and Mint Farm MMAs

Thank you Marlyn,

We will review the documentation and let you know if we have any questions.

Hjalmar

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**From:** Marcelo, Marlyn [<mailto:marlyn.marcelo@pse.com>]  
**Sent:** Thursday, September 15, 2016 2:09 PM  
**To:** MMAs <[MMAs@caiso.com](mailto:MMAs@caiso.com)>  
**Cc:** Crowley, Colin <[colin.crowley@pse.com](mailto:colin.crowley@pse.com)>; Blanke, Amelia <[ablanke@caiso.com](mailto:ablanke@caiso.com)>; Westendorf, Kyle <[KWESTENDORF@caiso.com](mailto:KWESTENDORF@caiso.com)>; Collins, Keith <[kcollins@caiso.com](mailto:kcollins@caiso.com)>; Espinosa, Edward <[Ed.Espinosa@pse.com](mailto:Ed.Espinosa@pse.com)>; I Ron <[Ron.Roberts@pse.com](mailto:Ron.Roberts@pse.com)>; Mannheim, Sidney <[smannheim@caiso.com](mailto:smannheim@caiso.com)>; Sedgley, Martha <[MSedgley@caiso.com](mailto:MSedgley@caiso.com)>; CAISONDA <[caisonda@caiso.com](mailto:caisonda@caiso.com)>; Pihl, Hjalmar <[HPIHL@caiso.com](mailto:HPIHL@caiso.com)>  
**Subject:** RE: Goldendale and Mint Farm MMAs

Thank you for the copy of the signed NDA.

The following are attached:

1. Sections 2.14, 5.1 and 5.2.2 of the service agreements included in the MMA calculation for both Golden Mint Farm Generating Stations.
2. Revised MMA template for Mint Farm to conform with the service agreement sections.
3. Calculating spreadsheet to show how we arrived at the numbers submitted.

Let me know if you have any questions or if you want to set up a meeting to discuss. Thanks.

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**From:** Pihl, Hjalmar [<mailto:HPIHL@caiso.com>] On Behalf Of MMAs  
**Sent:** Wednesday, September 14, 2016 5:48 PM  
**To:** Marcelo, Marlyn  
**Cc:** Crowley, Colin - Marketing; Blanke, Amelia; Westendorf, Kyle; Collins, Keith; Espinosa, Edward; Roberts, Ron; Mannheim, Sidney; Sedgley, Martha; CAISONDA; Pihl, Hjalmar; MMAs  
**Subject:** RE: Goldendale and Mint Farm MMAs



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The signed NDA is attached.

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Regarding next steps: As supporting documentation for the MMA applications for Goldendale and Mint Farm, please provide copies of the service agreements that the MMA applications were based on. Further, please provide an explanation of how the values in the service agreements were translated into the applied-for MMA values. Once the documentation is received, the ISO will reevaluate the currently effective MMA values for Goldendale and Mint Farm.

Thank you,  
Hjalmar

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**From:** Pihl, Hjalmar On Behalf Of MMAs  
**Sent:** Tuesday, September 13, 2016 4:27 PM  
**To:** 'Marcelo, Marlyn' <[marlyn.marcelo@pse.com](mailto:marlyn.marcelo@pse.com)>; MMAs <[MMAs@caiso.com](mailto:MMAs@caiso.com)>; CAISONDA <[caisonda@caiso.com](mailto:caisonda@caiso.com)>  
**Cc:** Crowley, Colin <[colin.crowley@pse.com](mailto:colin.crowley@pse.com)>; Blanke, Amelia <[ablanke@caiso.com](mailto:ablanke@caiso.com)>; Westendorf, Kyle <[KWESTENDORF@caiso.com](mailto:KWESTENDORF@caiso.com)>; Collins, Keith <[kcollins@caiso.com](mailto:kcollins@caiso.com)>; Espinosa, Edward <[Ed.Espinosa@pse.com](mailto:Ed.Espinosa@pse.com)>; Ron Roberts <[Ron.Roberts@pse.com](mailto:Ron.Roberts@pse.com)>  
**Subject:** RE: Goldendale and Mint Farm MMAs

Roberts,

Thank you Marlyn,

I will let you know once the process is completed on our side.

Hjalmar

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**From:** Marcelo, Marlyn [<mailto:marlyn.marcelo@pse.com>]  
**Sent:** Tuesday, September 13, 2016 3:52 PM  
**To:** MMAs <[MMAs@caiso.com](mailto:MMAs@caiso.com)>; CAISONDA <[caisonda@caiso.com](mailto:caisonda@caiso.com)>  
**Cc:** Crowley, Colin <[colin.crowley@pse.com](mailto:colin.crowley@pse.com)>; Blanke, Amelia <[ablanke@caiso.com](mailto:ablanke@caiso.com)>; Westendorf, Kyle <[KWESTENDORF@caiso.com](mailto:KWESTENDORF@caiso.com)>; Collins, Keith <[kcollins@caiso.com](mailto:kcollins@caiso.com)>; Espinosa, Edward <[Ed.Espinosa@pse.com](mailto:Ed.Espinosa@pse.com)>; Ron Roberts <[Ron.Roberts@pse.com](mailto:Ron.Roberts@pse.com)>  
**Subject:** RE: Goldendale and Mint Farm MMAs

Roberts,  
[pse.com](mailto:pse.com)>;

Attached is PSE's signed copy of the NDA. Please send back with CAISO's signatures for our files and let me know of the next steps.

dale and

Thanks.  
Marlyn

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**From:** Pihl, Hjalmar [<mailto:HPIHL@caiso.com>] On Behalf Of MMAs  
**Sent:** Monday, September 12, 2016 3:32 PM  
**To:** Marcelo, Marlyn; MMAs; CAISONDA  
**Cc:** Crowley, Colin - Marketing; Blanke, Amelia; Westendorf, Kyle; Collins, Keith; Espinosa, Edward; Roberts, Ron  
**Subject:** RE: Goldendale and Mint Farm MMAs

Marlyn,

;

The ISO's legal department has reviewed the edits in the NDA, and they have no concerns with the proposed changes.

Please send a version with PSE's signatures. As with the previous email, please include both [MMAs@caiso.com](mailto:MMAs@caiso.com) and [CAISONDA@caiso.com](mailto:CAISONDA@caiso.com) on the email.

ise Let me know if you have any questions.

his Thank you,  
rm. Hjalmar

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**From:** Marcelo, Marlyn [<mailto:marlyn.marcelo@pse.com>]  
**Sent:** Friday, September 09, 2016 1:08 PM  
**To:** MMAs <[MMAs@caiso.com](mailto:MMAs@caiso.com)>; CAISONDA <[caisonda@caiso.com](mailto:caisonda@caiso.com)>  
**Cc:** Crowley, Colin <[colin.crowley@pse.com](mailto:colin.crowley@pse.com)>; Blanke, Amelia <[ablanke@caiso.com](mailto:ablanke@caiso.com)>; Westendorf, Kyle <[KWESTENDORF@caiso.com](mailto:KWESTENDORF@caiso.com)>; Collins, Keith <[kcollins@caiso.com](mailto:kcollins@caiso.com)>; Pihl, Hjalmar <[HPIHL@caiso.com](mailto:HPIHL@caiso.com)>; Espinosa, E <[Ed.Espinosa@pse.com](mailto:Ed.Espinosa@pse.com)>; Roberts, Ron <[Ron.Roberts@pse.com](mailto:Ron.Roberts@pse.com)>  
**Subject:** RE: Goldendale and Mint Farm MMAs  
**Importance:** High

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iberts, <EXTERNAL email. Evaluate before clicking. >

Good afternoon.

Attached is an edited NDA from PSE's legal Department for your review related to the MMA submission for our Goldendale and Mint Farm generating plants.

Please let me know if the proposed changes are acceptable and/or if you have any questions.

Thanks.

*Marlyn Marcelo, CPA, CGMA  
Sr. ERG Analyst, Thermal Resources  
Puget Sound Energy, PSE-09  
Bellevue, WA 98004  
Office: 425-456-2326  
Cell: 425-324-1816*

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**From:** Pihl, Hjalmar [<mailto:HPIHL@caiso.com>] On Behalf Of MMAs  
**Sent:** Tuesday, September 06, 2016 4:46 PM  
**To:** Espinosa, Edward  
**Cc:** Crowley, Colin - Marketing; Marcelo, Marlyn; MMAs; Blanke, Amelia; Westendorf, Kyle; Collins, Keith; Pihl, Hjalmar  
**Subject:** Goldendale and Mint Farm MMAs

Hello Ed,

Concerning the NDA that would enable PSE to share copies of the LTSAs for the Goldendale and Mint Farm resources: Our legal department has recently assisted us in revising our pro-forma MMA NDA template (please see attachment). I understand that this may still not be applicable for your specific case, but please feel free to use it if it would be helpful.

ges. Thank you,  
Hjalmar

id

ward

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The foregoing electronic message, together with any attachments thereto, is confidential and may be legally privileged against disclosure other than to the intended recipient. It is intended solely for the addressee(s) and access to the message by anyone else is unauthorized. If you are not the intended recipient of this electronic message, you are hereby notified that any dissemination, distribution, or any action taken or omitted to be taken in reliance on it is strictly prohibited and may be unlawful. If you have received this electronic message in error, please delete and immediately notify the sender of this error.  
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Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Selected Units:  
ENCO1  
Operating Report  
Rollup

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)	3235	917	2614	1661	1114	3285	10102	17254	5060	1042.2	0	0	46284.2
Gross Gen (mwh)	3392.9	1012.1	2719.9	1788.6	1214.5	3452.3	10423.7	17690.3	5201.7	1126.5	5868.2	14700.8	20569
Station Svc(mwh)	157.9	95.1	143.9	127.6	100.5	167.3	321.7	436.3	141.7	84.3	0	0	
Net Ht Rt(btu/kwh)	13579.23	12650.27	12428.42	12463.76	12752.69	12449.77	12506.32	12553.78	12285.82	12300.95	12015.57	12070.64	
Gross Ht Rt(btu/kwh)	12947.27	11461.61	11770.87	11574.58	11697.41	11846.45	12120.34	12244.17	11951.14	11380.43	12015.57	12070.64	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	662	709	720	641.92	701.85	744	704.02	390.5	277.33	600.42	744	7639.04
Service Hours	126.3	28.2	71.4	39	36.1	97.3	304.78	530.72	148.95	31.33	166.4	393.43	1973.91
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	4	4	4	7	3	11	17	6	1	2	6	4	
Attempted Starts	4	4	4	7	3	11	17	6	1	2	6	4	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	98.51	95.42	100	86.28	97.48	100	94.63	54.24	37.28	83.28	100	
Net Capacity Factor	10.61	3.33	8.46	5.63	3.65	11.13	33.12	56.56	17.14	3.42	19.85	48.19	
Generation Use Factor	10.61	3.38	8.86	5.63	4.23	11.42	33.12	59.78	31.6	9.17	23.84	48.19	
Eq. Forced Out. Rate	0	0	0	0	0	15.72	0	0	65.89	0	2.31	0	
Availability Factor	100	98.51	95.42	100	86.28	97.48	100	94.63	54.24	37.28	83.28	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	9.02	0	0	50.66	0	2.04	0	
MMBTUs (x1000)	43.93	11.6	32.02	20.7	14.21	40.9	126.34	216.6	62.17	12.82	70.51	177.45	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.01	0.01	0.02	0.01	0	0	0.01	0	0	0.01	0	0	
#2Oil-Average HHV	140000	140000	140000	140000	0	0	140000	0	0	140000	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	42800	11260	31120	20140	13860	39900	123200	211320	60650	12450	68790	173120	
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	154.1	6469.9	3378.6	
Gross Gen (mwh)	2181.27	6267.96	1294	135.7	1470.6	303	5647.5	12668.1	14374.4	157.16	6520.97	3413.81	54434.47
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	3.06	51.07	35.21	
Net Ht Rt(btu/kwh)	12044.77	12344.89	12523.38	13067.43	12713.18	12415.02	12378.04	12455.58	12547.24	12456.25	12589.36	12563.71	
Gross Ht Rt(btu/kwh)	12044.77	12344.89	12523.38	13067.43	12713.18	12415.02	12378.04	12455.58	12547.24	12213.72	12490.76	12434.13	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	647.03	263.98	696.55	720	744	682.08	711.17	636.53	721	743.47	7981.81
Service Hours	57.7	187.3	40.93	4.9	48.15	9.25	166.83	390.52	454.73	4.5	212.75	107.95	1685.51
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	2	1	1	1	3	1	15	10	9	1	3	3	



Attempted Starts	2	1	1	1	3	1	15	10	9	1	3	3
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0
Eq. Avail. Factor	100	100	87.08	36.66	93.62	100	100	91.68	98.77	85.56	100	99.93
Net Capacity Factor	7.15	22.75	4.25	0.46	4.82	1.03	18.51	41.53	48.69	0.51	21.89	11.08
Generation Use Factor	7.15	22.75	4.88	1.25	5.15	1.03	18.51	45.3	49.3	0.59	21.89	11.08
Eq. Forced Out. Rate	0	0	0	0	0	0	0	13.69	0	79.93	0	0.49
Availability Factor	100	100	87.08	36.66	93.62	100	100	91.68	98.77	85.56	100	99.93
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100
EFORD(%)	0	0	0	0	0	0	0	9.52	0	44.97	0	0.48
MMBTUs (x1000)	26.27	77.38	16.21	1.77	18.7	3.76	69.91	157.79	180.36	1.92	81.45	42.45
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	0.03	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Average HHV	140000	0	0	0	0	0	0	0	0	0	0	0
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	25460	75490	15810	1730	18240	3670	68200	153940	175960	1863.6	79079.5	41211.4
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1030	1030	1030

Operating Report

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Rollup

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Gross Gen (mwh)	944.4	359.8	611.4	0	0	9808	10367.6	10405.3	4863.8	3902.7	10080.9	883.9	52227.8
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	12380.93	11954.42	12070.66	0	0	13328.98	13320.35	12752.78	12400.65	12206.74	12307.24	12328.29	
Gross Ht Rt(btu/kwh)	12380.93	11954.42	12070.66	0	0	13328.98	13320.35	12752.78	12400.65	12206.74	12307.24	12328.29	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	575.02	0	0	342.92	592.57	744	573.9	576.18	721	639.37	6180.96
Service Hours	31.35	9.93	17.02	0	0	327.39	351.77	350.25	150.77	110.63	312.23	28.45	1689.79
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	1	1	2	0	0	4	9	4	4	3	9	3	
Attempted Starts	1	1	2	0	0	4	9	4	4	3	9	3	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	77.39	0	0	47.63	79.65	100	79.71	77.44	100	85.94	
Net Capacity Factor	3.1	1.31	2.01	0	0	33.22	33.99	34.11	16.48	12.79	34.1	2.9	
Generation Use Factor	3.1	1.31	2.59	0	0	69.76	42.67	34.11	20.67	16.52	34.1	3.37	
Eq. Forced Out. Rate	0	0	0	0	0	0	30.09	0	5.1	0	0	0	
Availability Factor	100	100	77.39	0	0	47.63	79.65	100	79.71	77.44	100	85.94	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	21.39	0	4.29	0	0	0	
MMBTUs (x1000)	11.69	4.3	7.38	0	0	130.73	138.1	132.7	60.31	47.64	124.07	10.9	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.01	0.09	0	0	0	0.03	0	0	0	0	0.02	0.03	
#2Oil-Average HHV	140000	140000	0	0	0	140000	0	0	0	0	140000	140000	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	



Gas-Burned(mcf)	11350	3680	7200	0	0	127370	134731.8	129460	58843.2	46477.3	120927.3	10459.1
Gas-Average HHV	1025	1025	1025	0	0	1025	1025	1025	1025	1025	1025	1025

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

Selected Units:  
ENCO2

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)	2872	1007	2224	1368	505	2438	9125	16483	10056	126.5			46204.5
Gross Gen (mwh)	3012.2	1111.4	2348.2	1473.1	550.6	2562.1	9415	16899.8	10337.6	136.7	5494.5	13865.2	19359.7
Station Svc(mwh)	140.2	104.4	124.2	105.1	45.6	124.1	290	416.8	281.6	10.2	0	0	
Net Ht Rt(btu/kwh)	14610.31	13341.66	12590.06	13441.89	13781.68	13369.57	13373.57	13380.41	12932.78	13915.42	12771.23	12818.78	
Gross Ht Rt(btu/kwh)	13930.28	12088.4	11924.15	12482.86	12640.3	12721.99	12961.64	13050.41	12580.48	12877.1	12771.23	12818.78	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	704	648	709	720	675	696.22	744	744	678.3	250.6	639.67	744	7952.79
Service Hours	119.7	31.4	63.1	43	16.7	77	293.05	534.77	303.28	4.6	104.65	389.8	1981.05
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	5	4	4	7	2	9	17	6	3	1	7	4	
Attempted Starts	5	4	4	7	2	9	17	6	3	1	7	4	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	94.62	96.43	95.42	100	90.73	96.7	100	100	94.21	33.68	88.72	100	
Net Capacity Factor	9.42	3.65	7.3	4.63	1.66	8.26	29.91	54.04	34.07	0.41	18.59	45.45	
Generation Use Factor	9.95	3.79	7.65	4.63	1.82	8.54	29.91	54.04	36.16	1.23	20.95	45.45	
Eq. Forced Out. Rate	0	0	0	0	0	23.6	0	0	0	0	3.62	0	
Availability Factor	94.62	96.43	95.42	100	90.73	96.7	100	100	94.21	33.68	88.72	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	9.15	0	0	0	0	2.92	0	
MMBTUs (x1000)	41.96	13.44	28	18.39	6.96	32.6	122.03	220.55	130.05	1.76	70.17	177.74	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.01	0.01	0.01	0	0	0	0.01	0	0	0.01	0	0	
#2Oil-Average HHV	140000	140000	140000	0	0	0	140000	0	0	140000	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	40880	13050	27260	17940	6790	31800	119000	215170	126880	1660	68460	173400	
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)										1808.1	5127.7	3103.2	
Gross Gen (mwh)	2003.85	5950.62	1215	222.5	1345.2	259.7	5135.1	12967.9	11055	1844.1	5168.07	3135.6	50302.64
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	36	40.37	32.4	
Net Ht Rt(btu/kwh)	12825.84	13118.9	13247.49	13958.43	13593.52	13221.99	13333.72	13364.31	13234.6	13249.75	13624.9	13580.62	
Gross Ht Rt(btu/kwh)	12825.84	13118.9	13247.49	13958.43	13593.52	13221.99	13333.72	13364.31	13234.6	12991.09	13518.47	13440.29	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	653.83	647.03	264	744	720	744	744	711.17	558.38	721	743.47	7994.88







#2Oil-Burned(gal)	0.01	0.03	0	0	0	0	0	0	0	0	0.04	0.02
#2Oil-Average HHV	140000	140000	0	0	0	0	0	0	0	0	140000	140000
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	10980	3490	6560	26350	77140	203320	234602.3	133860	90079.5	44218.2	128154.5	25320.5
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Selected Units:  
ENCO3

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

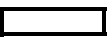
Operating Report  
Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)	3640	875	2178	1233	943	2712	8115	16612	10169	76			46553
Gross Gen (mwh)	3817.7	965.7	2299.6	1327.8	1028.1	2850.1	8373.4	17032	10453.8	82.1	5067.7	13865.2	18932.9
Station Svc(mwh)	177.7	90.7	121.6	94.8	85.1	138.1	258.4	420	284.8	6.1	0	0	
Net Ht Rt(btu/kwh)	13912.79	12976.34	12547.59	12968.37	13086.96	13080.84	13191.41	13242.57	12829.38	14026.32	12707.55	12818.78	
Gross Ht Rt(btu/kwh)	13265.2	11757.59	11884.09	12042.48	12003.7	12447.02	12784.33	12916.01	12479.86	12984.17	12707.55	12818.78	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	648	699	720	688.67	719.85	704.02	744	636.73	246	712.5	744	8006.77
Service Hours	139.6	26.6	59.7	37.8	31.6	82.3	255.53	528	300.62	2.75	215.4	381.55	2061.45
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	6	5	4	7	3	10	15	6	3	1	11	4	
Attempted Starts	6	5	4	7	3	10	15	6	3	1	11	4	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	96.43	94.08	100	92.56	99.98	94.63	100	88.44	33.06	98.82	100	
Net Capacity Factor	11.93	3.18	7.15	4.18	3.09	9.19	26.6	54.46	34.45	0.25	17.14	45.45	
Generation Use Factor	11.93	3.29	7.6	4.18	3.34	9.19	28.11	54.46	38.95	0.75	17.35	45.45	
Eq. Forced Out. Rate	0	0	0	0	0	0.18	0	0	0	86.75	0.5	0	
Availability Factor	100	96.43	94.08	100	92.56	99.98	94.63	100	88.44	33.06	98.82	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0.18	0	0	0	47.99	0.47	0	
MMBTUs (x1000)	50.64	11.35	27.33	15.99	12.34	35.48	107.05	219.99	130.46	1.07	64.4	177.74	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.01	0.01	0.03	0	0	0	0.01	0	0	0	0.01	0	
#2Oil-Average HHV	140000	140000	140000	0	0	0	140000	0	0	0	140000	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	49350	11020	26490	15600	12040	34610	104380	214620	127280	1040	62770	173400	
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)										2612.9	4996.2	3153	
Gross Gen (mwh)	1958.51	5947.17	294	229.1	1230.3	192.2	4878.9	13040.5	10771.5	2664.84	5035.55	3185.85	49428.42
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	51.94	39.35	32.85	



Net Ht Rt(btu/kwh)	12570.47	13080.89	15022.62	13064.16	13596.68	13279.14	13046.49	13041.52	12985.33	13024.66	13276.96	13219.87	
Gross Ht Rt(btu/kwh)	12570.47	13080.89	15022.62	13064.16	13596.68	13279.14	13046.49	13041.52	12985.33	12770.8	13173.21	13083.56	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	647.03	264	744	720	744	744	711.17	702.02	721	744	8157.22
Service Hours	53.2	184.3	13.93	7.47	42.67	6.37	148.9	410.37	325.97	78	167.95	103.3	1542.43
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	2	1	1	1	3	1	15	11	21	2	4	2	
Attempted Starts	2	1	1	1	3	1	15	11	21	2	4	2	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	87.08	36.67	100	100	100	100	98.77	94.36	100	100	
Net Capacity Factor	6.42	21.59	0.97	0.78	4.03	0.65	15.99	42.75	36.49	8.57	16.9	10.34	
Generation Use Factor	6.42	21.59	1.11	2.12	4.03	0.65	15.99	42.75	36.94	9.08	16.9	10.34	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0	0	0	0	
Availability Factor	100	100	87.08	36.67	100	100	100	100	98.77	94.36	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0	0	0	0	
MMBTUs (x1000)	24.62	77.79	4.42	2.99	16.73	2.55	63.65	170.07	139.87	34.03	66.33	41.68	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.08	0.05	0.08	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	140000	140000	140000	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	23560	75610	3850	2920	16320	2490	62100	165920	136460	33040.9	64402.3	40468.2	
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1030	1030	1030	

Operating Report  
Rollup

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	41	41	41	41	41	41	41	41	41	41	41	41	
Net Dep. Capacity	41	41	41	41	41	41	41	41	41	41	41	41	
Net Gen (mwh)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Gross Gen (mwh)	689.4	307.3	442.6	2161.3	6350.4	15787.7	15837.6	10341.6	7338.2	3283.8	10362.8	1744.1	74646.8
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	13217.65	12432.64	12644.6	12477.56	12484.84	12998.43	13039.19	13138.59	12721.36	12577.05	12761.16	12992.74	
Gross Ht Rt(btu/kwh)	13217.65	12432.64	12644.6	12477.56	12484.84	12998.43	13039.19	13138.59	12721.36	12577.05	12761.16	12992.74	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	575.02	182.17	736.33	720	744	744	711.9	587.75	721	663	7801.17
Service Hours	24.47	8.53	12.67	61.45	177.35	495.65	504.08	344.17	221.72	93.83	326.23	58.42	2328.57
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	0	1	2	1	2	7	8	4	4	3	8	3	
Attempted Starts	0	1	2	1	2	7	8	4	4	3	8	3	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	77.39	25.3	98.97	100	100	100	98.88	79	100	89.11	
Net Capacity Factor	2.26	1.12	1.45	7.32	20.82	53.48	51.92	33.9	24.86	10.77	35.06	5.72	
Generation Use Factor	2.26	1.12	1.88	28.94	21.04	53.48	51.92	33.9	25.14	13.63	35.06	6.42	
Eq. Forced Out. Rate	0	0	0	0	4.14	0	0	0	3.52	0	0	0	
Availability Factor	100	100	77.39	25.3	98.97	100	100	100	98.88	79	100	89.11	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	3.83	0	0	0	3.11	0	0	0	
MMBTUs (x1000)	9.11	3.82	5.6	26.97	79.28	205.22	206.51	135.87	93.35	41.3	132.24	22.66	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	





Net Dep. Capacity	44	44	44	44	44	44	44	44	44	44	44	44	
Net Gen (mwh)													
Gross Gen (mwh)	2559.4	7887.71	1255	191.1	1863.4	311.7	7038.7	18794.7	16996	2238.98	7547.4	4430.2	71114.29
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	116.28	231.8	144.4	
Net Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Gross Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	647.03	264	744	720	744	744	711.17	744	721	744	8199.2
Service Hours	53.72	185.37	38.92	12.3	44.83	7.37	155.55	421.6	444.15	114.17	322.95	105.77	1906.7
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	2	1	1	2	3	1	15	11	9	3	2	2	
Attempted Starts	2	1	1	2	3	1	15	11	9	3	2	2	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	87.08	36.67	100	100	100	100	98.77	100	100	100	
Net Capacity Factor	7.82	26.68	3.84	0.6	5.69	0.98	21.5	57.41	53.65	6.48	23.06	13.09	
Generation Use Factor	7.82	26.68	4.41	1.65	5.69	0.98	21.5	57.41	54.32	6.48	23.06	13.09	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0	0	0	0	
Availability Factor	100	100	87.08	36.67	100	100	100	100	98.77	100	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0	0	0	0	
MMBTUs (x1000)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	52	52	52	52	52	52	52	52	44	44	44	44	
Net Dep. Capacity	52	52	52	52	52	52	52	52	44	44	44	44	
Net Gen (mwh)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Gross Gen (mwh)	1119.6	359.3	604.7	1913.3	5716.2	20247.6	22240.8	15287.6	8822.7	4793.2	13602.3	1993.2	96700.5
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Gross Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	575.02	182.17	736.33	720	744	744	711.9	744	721	744	8038.42
Service Hours	29.65	23.48	14.25	60.25	174.18	504.48	609.55	353.05	222.18	145	324.2	64.65	2524.92
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	1	3	2	1	2	6	2	3	4	3	9	2	
Attempted Starts	1	3	2	1	2	6	2	3	4	3	9	2	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	77.39	25.3	98.97	100	100	100	98.88	100	100	100	
Net Capacity Factor	2.89	1.03	1.57	5.11	14.78	54.08	57.49	39.52	27.85	14.64	42.88	6.09	
Generation Use Factor	2.89	1.03	2.02	20.2	14.93	54.08	57.49	39.52	28.17	14.64	42.88	6.09	
Eq. Forced Out. Rate	0	0	0	0	4.22	0	0	0	3.52	0	0	0	
Availability Factor	100	100	77.39	25.3	98.97	100	100	100	98.88	100	100	100	

0.00

Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100
EFORD(%)	0	0	0	0	3.9	0	0	0	3.11	0	0	0
MMBTUs (x1000)	0	0	0	0	0	0	0	0	0	0	0	0
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0

total MWhr 809,180  
total service hours 23,940  
available hours 93903.33

202529.90











Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Selected Units:  
SUMA1

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
Net Dep. Capacity	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
Net Gen (mwh)	11571.7	10884.3	27720	13095.6	10924.9	14634.9	36206.8	51480.1	39224.5	61054.7	38570.7	61210.1	376578.3
Gross Gen (mwh)	11894.3	11165.3	28389.3	13457	11237.3	15075.4	37230.8	52809.3	40263.1	62512.7	39495.7	62576.8	
Station Svc(mwh)	322.6	281	669.3	361.4	312.4	440.5	1024	1329.2	1038.6	1458	925	1366.7	
Net Ht Rt(btu/kwh)	13475.26	12892.63	12558.42	13026.41	13439.62	13085.7	12573.03	12217.72	12265.62	12212.62	12438.82	12240.17	
Gross Ht Rt(btu/kwh)	13109.78	12568.15	12262.35	12676.57	13065.99	12703.34	12227.22	11910.2	11949.23	11927.78	12147.5	11972.84	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	742.33	668.5	717.77	606.25	512.9	720	744	656.25	558	744	721	744	
Service Hours	187.6	153.6	355.9	198.8	163.1	227.13	509.98	649.27	509.22	726.85	489.05	730.95	4901.45
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	1	4	4	6	10	12	7	3	2	2	4	1	
Attempted Starts	1	4	4	6	10	12	7	3	2	2	4	1	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	99.78	99.48	96.6	84.2	68.94	97.06	100	88.21	77.5	100	100	100	
Net Capacity Factor	17.98	18.72	43.13	21.03	16.98	23.5	56.26	79.99	62.98	94.87	61.85	95.11	
Generation Use Factor	18.02	18.82	44.65	24.97	24.62	24.21	56.26	90.69	81.27	94.87	61.85	95.11	
Eq. Forced Out. Rate	0	0	0	0	0	9.31	0	11.91	24.14	0	0	0	
Availability Factor	99.78	99.48	96.6	84.2	68.94	100	100	88.21	77.5	100	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	2.94	0	11.8	22.7	0	0	0	
MMBTUs (x1000)	155.93	140.33	348.12	170.59	146.83	191.51	455.23	628.97	481.11	745.64	479.77	749.22	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	151390	136240	337980	165620	142550	185930	441970	610650	467100	723920	465800	727400	
Gas-Average HHV	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87	87	87	
Net Dep. Capacity	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87	87	87	
Net Gen (mwh)	47609.1	38634.4	5009.9	4832.1	2531.2	7034.3	32185.3	52054.1	53223.1	29910.3	22192.8	18110.4	313327
Gross Gen (mwh)	48703.2	39539.5	5181	4966.6	2614.2	7241	33105.8	53509.4	54673.8	30044.8	22722.7	18582.5	
Station Svc(mwh)	1094.1	905.1	171.1	134.5	83	206.7	920.5	1455.3	1450.7	134.5	529.9	472.1	

Net Ht Rt(btu/kwh)	12257.69	12423.11	14259.93	14759.05	13871.96	13166.57	12471.25	12249.21	12217.04	12251.44	12438.45	12644.38	
Gross Ht Rt(btu/kwh)	11982.32	12138.73	13789	14359.36	13431.53	12790.72	12124.49	11916.07	11892.88	12196.59	12148.39	12323.14	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	743	720	284.38	720	744	744	720	466	721	744	
Service Hours	566.93	480.55	70.28	69.52	40.15	102.15	445.53	692.53	686.57	379.27	294.47	262.78	4090.73
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	2	2	2	3	2	8	17	0	2	2	3	4	
Attempted Starts	2	2	2	3	2	8	17	0	2	2	3	4	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	100	100	38.22	100	100	100	100	62.63	100	100	
Net Capacity Factor	73.98	66.46	7.8	7.76	3.93	11.29	50.01	80.88	85.46	46.21	35.38	27.98	
Generation Use Factor	73.98	66.46	7.8	7.76	10.29	11.29	50.01	80.88	85.46	73.78	35.38	27.98	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0	0	0	0	
Availability Factor	100	100	100	100	38.22	100	100	100	100	62.63	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0	0	0	0	
MMBTUs (x1000)	583.58	479.96	71.44	71.32	35.11	92.62	401.39	637.62	650.23	366.44	276.04	228.99	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	566580	465980	69360	69240	34090	89920	389700	619050	631290	355771	268004	222325	
Gas-Average HHV	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	
Puget Sound Energy Rollup Report for Selected Units (Inc. OMC)	Operating Report Rollup												
	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	86.5	86.5	86.5	86.5	86.5	86.5	86.5	88	88	88	88	88	
Net Dep. Capacity	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87	87	87	87	87	
Net Gen (mwh)	13829.9	7664.3	25631.2	29218.7	25223.8	50603	53256	49627.9	42386.4	44172.1	36017.8	43834	421465.1
Gross Gen (mwh)	14176.5	7871.5	26336	29994.7	25891.4	51991.3	54772.9	49737.71	42516.8	44271.4	36133.14	43893.33	
Station Svc(mwh)	346.6	207.2	704.8	776	667.6	1388.3	1516.9	109.81	130.4	99.3	115.34	59.33	
Net Ht Rt(btu/kwh)	12428.61	12476.7	12456.27	12186.41	12066.99	12021.18	12071.9	12662.62	12550.26	12055.74	12633.33	0	
Gross Ht Rt(btu/kwh)	12124.74	12148.28	12122.92	11871.13	11755.85	11700.18	11737.58	12634.66	12511.77	12028.7	12593	0	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	743	684.85	420.25	720	744	733.43	659.72	626.6	630	744	
Service Hours	187.72	109.42	382.23	393.88	332.9	687.48	744	694.33	549.65	624.67	468.28	610.5	5785.06
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	3	1	5	7	2	1	0	4	4	2	4	1	
Attempted Starts	3	1	5	8	2	1	0	4	4	2	4	1	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	100	95	56.49	100	100	97.46	90.59	83.26	86.39	98.86	
Net Capacity Factor	21.49	13.19	39.88	46.92	39.19	81.25	82.75	75.8	66.9	67.47	56.77	66.95	



#2Oil-Average HHV	0
#2Oil-%Sulfur	0
Gas-Burned(mcf)	13299046
Gas-Average HHV	995.14

Puget Sound Energy	Operating Report
Rollup Report for Selected Units (Inc. OMC)	Rollup
	Selected Units:
	SUMA2
Puget Sound Energy	Operating Report
Rollup Report for Selected Units (Inc. OMC)	Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	
Net Dep. Capacity	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	
Net Gen (mwh)	4959.3	4664.7	11880	5612.4	4682.1	6272.1	15517.2	22062.9	16810.5	26166.3	16530.3	26232.9	161390.7
Gross Gen (mwh)	4959.3	4664.7	11880	5612.4	4682.1	6272.1	15517.2	22062.9	16810.5	26166.3	16530.3	26232.9	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Gross Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	668.5	741.77	607.77	512.9	720	744	656.63	558	744	721	744	
Service Hours	185.9	147.6	350.1	190.9	150.7	215.72	503.58	648.28	506.97	724.37	483.1	729.55	4836.77
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	1	4	5	5	10	12	7	1	2	2	4	1	
Attempted Starts	1	4	5	5	10	12	7	1	2	2	4	1	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	99.48	99.83	84.41	68.94	95.66	100	88.26	77.5	100	100	100	
Net Capacity Factor	16.02	16.69	38.44	18.74	15.13	20.94	50.14	71.28	56.12	84.54	55.11	84.76	
Generation Use Factor	16.02	16.77	38.5	22.2	21.94	21.89	50.14	80.77	72.42	84.54	55.11	84.76	
Eq. Forced Out. Rate	0	0	0	0	0	14.5	0	11.88	24.22	0	0	0	
Availability Factor	100	99.48	99.83	84.41	68.94	100	100	88.26	77.5	100	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	4.34	0	11.75	22.72	0	0	0	
MMBTUs (x1000)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Puget Sound Energy													Operating Report

Rollup Report for Selected Units (Inc. OMC) Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	
Net Dep. Capacity	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41	41	41	
Net Gen (mwh)	20403.9	16557.6	2147.1	2070.9	1084.8	3014.7	13793.7	22308.9	22809.9	12818.7	9511.2	7761.6	134283
Gross Gen (mwh)	20403.9	16557.6	2147.1	2070.9	1084.8	3014.7	13793.7	22308.9	22809.9	12818.7	9511.2	7761.6	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Gross Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	743	720	284.38	720	744	744	720	466	721	744	
Service Hours	563.9	477.53	67.88	63.37	36.33	90.47	433.53	692.52	685.13	376.75	291.5	257.85	4036.76
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	2	2	2	3	2	8	17	0	1	2	2	3	
Attempted Starts	2	2	2	3	2	8	17	0	1	2	2	3	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	100	100	38.22	100	100	100	100	61.73	98.56	98.56	
Net Capacity Factor	65.92	59.23	6.95	6.91	3.5	10.07	44.57	72.08	76.15	41.42	31.71	25.08	
Generation Use Factor	65.92	59.23	6.95	6.91	9.17	10.07	44.57	72.08	76.15	67.09	32.17	25.44	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0	0	0	0	
Availability Factor	100	100	100	100	38.22	100	100	100	100	62.63	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0	0	0	0	
MMBTUs (x1000)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	

Puget Sound Energy Operating Report

Rollup Report for Selected Units (Inc. OMC) Rollup

	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	
Net Dep. Capacity	41.6	41.6	41.6	41.6	41.6	41.6	41	41	41	41	41	41	
Net Gen (mwh)	5927.1	3284.7	10984.8	12522.3	10810.2	21687	22824	21269.1	18165.6	18930.9	15436.2	18786	180627.9
Gross Gen (mwh)	5927.1	3284.7	10984.8	12522.3	10810.2	21687	22824	21269.1	18165.6	18930.9	15436.2	18786	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Gross Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	743	684.85	420.25	720	744	731.95	658.7	624.65	630	744	
Service Hours	183.37	108.1	376.62	387.88	330.63	686.7	744	691.05	546.07	622.82	463.95	609.07	5750.26

Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0
Actual Starts	3	1	4	5	1	1	0	3	3	2	4	1
Attempted Starts	3	1	4	5	1	1	0	3	3	2	4	1
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0
Eq. Avail. Factor	100	100	100	94.86	56.49	100	98.56	96.96	90.17	82.75	86.12	98.56
Net Capacity Factor	19.15	11.75	35.54	41.81	34.93	72.41	73.74	68.72	60.65	61.17	51.46	60.7
Generation Use Factor	19.15	11.75	35.54	44.07	61.83	72.41	74.82	70.87	67.26	73.92	59.76	61.59
Eq. Forced Out. Rate	0	0	0	2.28	0	0	0	1.71	0	0	0	0
Availability Factor	100	100	100	95.12	56.49	100	100	98.38	91.49	83.96	87.38	100
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100
EFORD(%)	0	0	0	2	0	0	0	1.67	0	0	0	0
MMBTUs (x1000)	0	0	0	0	0	0	0	0	0	0	0	0
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)  
Operating Report  
Rollup  
Rollup

Unit Rating	41.6
Net Dep. Capacity	41.45
Net Gen (mwh)	476301.6
Gross Gen (mwh)	476301.6
Station Svc(mwh)	0
Net Ht Rt(btu/kwh)	0
Gross Ht Rt(btu/kwh)	0
Period Hours	26280
Available Hours	24302.35
Service Hours	14623.79
Condensing Hours	0
Actual Starts	126
Attempted Starts	126
Hydro Gen Starts	0
Hydro Pump Starts	0
Eq. Avail. Factor	92.02
Net Capacity Factor	43.57
Generation Use Factor	47.35
Eq. Forced Out. Rate	2.03
Availability Factor	92.47
Starting Reliability	100
EFORD(%)	1.52

MMBTUs (x1000)	0
Coal-Burned (tons)	0
Coal-Average HHV	0
Coal-%Ash	0
Coal-%Sulfur	0
Coal-%Moisture	0
#2Oil-Burned(gal)	0
#2Oil-Average HHV	0
#2Oil-%Sulfur	0
Gas-Burned(mcf)	0
Gas-Average HHV	0

net generation MWhr	1,587,672
net service hours	29,401
net available hours	48581.58

gross generation for both STG & CTG	1,610,880
station services	23,208
net	1,587,672
net CTG MW	1111370.4



Scheduled Outage Work 2013 thru 2015

PSE definition: Variable O&M costs UOM is \$/MWh and consist of corrective maintenance (repairs), consumables such as ammonia, water, chemicals, etc. Any Reg  
 Background: IW39 - F/L = ENR-E-THRM-XXX, sched start date three year MA, backward looking, Notificaton is not null. Actual costs >\$0. Historical and Completed

**Variable Operations Costs**

total cost, \$	\$1,263,936
Net Actual MW, MWhr	1,587,672
<b>\$/MWhr</b>	<b>\$0.80</b>

**Variable Maintenance Costs**

<b>\$/MWhr</b>	<b>\$1.79</b>
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**Major Maintenance Adder per CAISO template**

<b>\$/Run_Hour</b>	<b>\$216.39</b>
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WBS Element	Fiscal year	Overall Result
		Fiscal year/period
		Actual
Overall Result		\$ 6,977,094
S.01240.02	SMS Demin Chemicals	72,270
105379	BANK OF AMERICA	3,902
125147	SIEMENS WATER TECHNOLOGIES LLC	40,196
134876	EVOQUA WATER TECHNOLOGIES LLC	28,802
#	Not assigned	-630
S.01240.03	SMS HRSG Chemicals	190,530
102274	PRAXAIR DISTRIBUTION INC	1,046
102368	PRAXAIR DISTRIBUTION INC	62,369

includes tank rental of \$ 72,000.00

103443	NORTHSTAR CHEMICAL INC	7,196
105379	BANK OF AMERICA	5,935
126477	WATERCARE INDUSTRIAL SERVICES INC	113,733
126571	CITY OF SUMAS	21,626
127161	PRAXAIR DISTRIBUTION INC	24,838
134876	EVOQUA WATER TECHNOLOGIES LLC	26,491
#	Not assigned	-705
	Praxair Equipment Rental and Lease	-72,000
S.01240.04	SMS Cooling Tower Chemicals	63,751
103443	NORTHSTAR CHEMICAL INC	10,365
105379	BANK OF AMERICA	2,201
126477	WATERCARE INDUSTRIAL SERVICES INC	51,918
#	Not assigned	-733
S.01240.05	SMS Emissions Chemicals	507,400
102274	PRAXAIR DISTRIBUTION INC	106
102368	PRAXAIR DISTRIBUTION INC	1,507
103443	NORTHSTAR CHEMICAL INC	505,819
#	Not assigned	-32
S.01240.06	SMS Station Power & Water	381,976
126571	CITY OF SUMAS	1,008,289
	2013-ChemE bill	-57,383
	2014-ChemE bill	-59,675
	2015-ChemE bill	-59,255
	Waste Water fee	-450,000
S.01240.08	SMS Consumables	48,009
100017	ALL PHASE ELECTRIC SUPPLY COMPANY	1,601
100018	ALL PHASE ELECTRIC SUPPLY COMPANY	11,257
102368	PRAXAIR DISTRIBUTION INC	194
105379	BANK OF AMERICA	27,915
121022	MSC INDUSTRIAL SUPPLY CO	6,637
124034	MSC INDUSTRIAL SUPPLY CO	165
#	Not assigned	239

Includes ChemE Water Treatment bills.  
removed ChemE bill  
removed ChemE bill  
removed ChemE bill  
based on fixed volume metric waste water

1,263,936

552006709	INSTALL NEW EYE WASH IN LAB AND SHOP	ENR-E-THRM-SMS-BLDG-MISC	200007227	4PB
554010175	SERVICE LUBE OIL PURIFIER	ENR-E-THRM-SMS-BLDG-MISC	200006931	4PB
513010991	EC1 BLDG FIRE SYS SMOKE DETECTOR FAILED	ENR-E-THRM-SMS-BLDG-FIRE	400016321	4CB
554011661	RUN POWER TO TRACTOR SHED	ENR-E-THRM-SMS-FACL-BLDG	200008454	4PF
552006555	MOVE CLUTTER FROM EC4 PANEL & CONEX WALK	ENR-E-THRM-SMS-BLDG-MISC	200006947	4PB
554010264	SERVICE FIELD MOWER	ENR-E-THRM-SMS-BLDG-MISC	200007019	4PB
552006566	CLEAN OUT TURBINE HALL PAINT LOCKER	ENR-E-THRM-SMS-BLDG-MISC	200007112	4PB
554010244	TROUBLESHOOT STEAM CLEANER	ENR-E-THRM-SMS-BLDG-MISC	400016405	4CB
552006600	INSTALL NEW CAL SOFTWARE ON LAPTOP	ENR-E-THRM-SMS-BLDG-MISC	200007150	4PB
552006983	RE-ORGANIZE COMM ROOM	ENR-E-THRM-SMS-BLDG-MISC	200007482	4PB
552006928	REPAIR CONCRETE SLAB AT SOUTH STAIRWAY	ENR-E-THRM-SMS-BLDG-MISC	200007549	4PB
552007087	REPAIR PLANT DOOR STOPS	ENR-E-THRM-SMS-BLDG-MISC	400018039	4CA
552007283	FABRICATE OIL BOOM STORAGE BOX	ENR-E-THRM-SMS-BLDG-MISC	200007851	4PB
554011660	RE-ORGANIZE WEST CONNEX	ENR-E-THRM-SMS-BLDG-MISC	200008449	4PF
552008022	REPLACE ADMIN BLDG STAIRWELL INSULATION	ENR-E-THRM-SMS-BLDG-MISC	200009068	4PB
512014486	REPLACE #1 RO PUMP AND CONTROLS	ENR-E-THRM-SMS-ACWP-WTRT	400018053	4CB
512014849	REPLACE #2 RO PUMP	ENR-E-THRM-SMS-ACWP-WTRT	200007858	4PW
553025663	INSTALL TROLLEY BEAMS ON GTG INLET	ENR-E-THRM-SMS-CTG1-ENCL	200008432	4PC
554010279	ORDER SPARE WTR PLANT PLC CONTROLLER	ENR-E-THRM-SMS-ACWP-WTRT	200007149	4PW
511007954	REPAIR ROCK BASE EAST OF COOLING TOWER	ENR-E-THRM-SMS-XFMR-YARD	200007988	4PB
512013660	RO SYSTEM CLEANING	ENR-E-THRM-SMS-ACWP-WTRT	200007076	4PW
511007746	SUMAS FRONT GATE NOT OPERATING	ENR-E-THRM-SMS-XFMR-YARD	400017957	4CA
513012433	REPLACE STG GEN GROUNDING BRUSHES	ENR-E-THRM-SMS-STG1-GENR	200007960	4PS
513013002	RE-ROUTE STG FIRE SYS FLOW TEST LINE	ENR-E-THRM-SMS-STG1	200008276	4PY
511007667	PAINT FIRE WTR UNDERGROUND VLV COVERS	ENR-E-THRM-SMS-XFMR-YARD	200007629	4PB
511007508	REMOVE PIPING FROM GAS YARD	ENR-E-THRM-SMS-XFMR-YARD	200007350	4PB
552007833	TROUBLESHOOT GTG FIRE SYSTEM ALARMS	ENR-E-THRM-SMS-CTG1-FIRE	200008751	4PB
512007545	2013 FIRE PROT NOZZELS HAVE STARTED TO C	ENR-E-THRM-SMS-ACWP-FIRE	400009943	4CB
512013571	FIX / UPDATE ROCKWELL SOFTWARE	ENR-E-THRM-SMS-ACWP-WTRT	400016388	4PW
511007362	CORRECT TRIP HAZARDS AROUND COOLING TWR	ENR-E-THRM-SMS-XFMR-YARD	200007114	4PB

553022109	CHANGE CONTROL SEQUENCE ON STG MKVI	ENR-E-THRM-SMS-ZN03-CTRL	200007547	4PE
513011302	ASSIST RELAY GROUP W / 3000 BREAKER TEST	ENR-E-THRM-SMS-SWGR-ELEC	200007213	4PE
513012378	REPLACE SHAFT GROUNDING BRUSHES ON STG	ENR-E-THRM-SMS-STG1-GENR	400019089	4PS
511008427	TROUBLESHOOT HVAC NOISE COMM RM	ENR-E-THRM-SMS-ZN02-WHSE	400021116	4CB
511007586	PULL PIGS FROM POND	ENR-E-THRM-SMS-XFMR-YARD	200007390	4PB
553027072	SMS GTG COMBUSTION INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200008789	4PC
553027299	INSPECT GTG EXHAUST DIFFUSER FOR CRACKS	ENR-E-THRM-SMS-CTG1-EXHS	200008984	4PD
553023587	GTG BORESCOPE INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200007915	4PC
553022238	SUMAS GAS TURBINE BORESCOPE INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200007554	4PC
553027302	GTG COMBUSTION INSPECTION PREP WORK	ENR-E-THRM-SMS-CTG1-COMB	200008971	4PC
512014914	DA TANK VISUAL INSPECTION	ENR-E-THRM-SMS-HRS1-TANK	200007951	4PH
553021358	INSPECT/REPLACE GTG GENERATOR BRUSHES	ENR-E-THRM-SMS-CTG1-GENR	200007326	4PE
553019958	INSPECT CTG EXH DIFFUSER & LOAD TUNNEL	ENR-E-THRM-SMS-CTG1-EXHS	400016013	4CB
553026980	PERFORM GTG BORESCOPE INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200008854	4PC
511007319	COOLING TOWER INSPECTION	ENR-E-THRM-SMS-CTWR-BOP1	200007077	4PB
513013641	CONDENSER HOTWELL INSPECTION	ENR-E-THRM-SMS-STG1-COND	200008868	4PN
552006704	INSTALL 6 HIGH BAY LIGHTS IN WATER PLANT	ENR-E-THRM-SMS-ACWP-WTRT	400016763	4PB
511008486	REPLACE TRANSFORMER YARD LIGHTS	ENR-E-THRM-SMS-XFMR-YARD	400021843	4CA
552006553	LIGHTS OUT AT WHSE NORTH & E&C HALLWAY	ENR-E-THRM-SMS-ZN02-WHSE	400016047	4CB
554010271	REPAIR EC AND WAREHOUSE LIGHTS	ENR-E-THRM-SMS-FACL-BLDG	400016356	4CB
511007361	REPLACE LIGHT FIXTURE - TOP OF CT STAIRS	ENR-E-THRM-SMS-CTWR-BOP1	400016600	4CB
552006989	REPAIR OR REPLACE EC1 OVERHEAD LIGHTING	ENR-E-THRM-SMS-BLDG-MISC	400017774	4CA
512014846	ADD VLV INDICATION LIGHT TO VAC BREAKER	ENR-E-THRM-SMS-STG1-COND	200007855	4PB
511007083	REPLACE WAREHOUSE HIGH BAY LIGHT	ENR-E-THRM-SMS-ZN02-WHSE	400015208	4CB
511007382	REPAIR WHSE HIGH BAY LIGHT	ENR-E-THRM-SMS-ZN02-WHSE	400016707	4CB
552006604	REPLACE CHEM BLDG LIGHTING PHOTO CELL	ENR-E-THRM-SMS-FACL-BLDG	400016677	4PB
552007654	TROUBLESHOOT MINI WAREHOUSE LIGHTING	ENR-E-THRM-SMS-ZN02-WHSE	200008431	4PB
553019369	EMERGENCY LIGHTS NOT WORKING	ENR-E-THRM-SMS-BLDG-EMRG	200006620	4CB
552006603	MINI OUTSIDE LIGHTING NEEDS PHOTO CELL	ENR-E-THRM-SMS-ZN02-WHSE	400016676	4PB
554011544	REPLACE ADMIN STAIR LIGHT FIXTURE W/LED	ENR-E-THRM-SMS-ZN13-ADMIN	200008323	4PF

Remove Inspection \$'s

Remove light intall \$'s  
 Remove Misc. upgrades & PM's  
 Remove BLDG-Admin

Order	Description	Functional Loc.	Notification	MaintActivType
103007779	SMS COOLING TOWER FILL REPLACEMENT	ENR-E-THRM-SMS		GEN
553020501	CTG LUBE OIL LEAK	ENR-E-THRM-SMS-CTG1-LUBE	400016450	4CB
103007577	SUMAS GTG EXHAUST DIFFUSER REPLACEMENT	ENR-E-THRM-SMS		GEN
103007817	SMS AUX CIRCULATING WATER PUMP	ENR-E-THRM-SMS		GEN
511007870	REPLACE COOLING TOWER DECK	ENR-E-THRM-SMS-CTWR-BOP1	200007798	4PB
512014486	REPLACE #1 RO PUMP AND CONTROLS	ENR-E-THRM-SMS-ACWP-WTRT	400018053	4CB
512014356	HRSG HOT SPOT REPAIRS	ENR-E-THRM-SMS-HRS1-HRSG	200007627	4PH
513011457	COOLING TOWER CELL#3 VFD FAILED	ENR-E-THRM-SMS-CTWR-BOP1	400017216	4PO
511008066	REPAIR COOLING TOWER STAIRS & STRUCTURE	ENR-E-THRM-SMS-CTWR-BOP1	400019661	4CB
513010381	STG RELAGGING (PER GE VIBRATION TESTING)	ENR-E-THRM-SMS-STG1-GENR	400014827	4CB
512014191	HRSG ICE BLASTING	ENR-E-THRM-SMS-ZN10-HRS1	200007520	4PH
512016007	REPAIR STG BLDG SUMP PUMP DISCH LEAK	ENR-E-THRM-SMS-ACWP-WWTR	400021329	4CB
511008065	FAB & INSTALL CURTAINS ON COOLING TOWER	ENR-E-THRM-SMS-CTWR-BOP1	200008071	4PB
553020694	REPLACE CONTROL ROOM WONDERWARE SERVERS	ENR-E-THRM-SMS-ZN03-CTRL	200007146	4PE
553027072	SMS GTG COMBUSTION INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200008789	4PC
512014849	REPLACE #2 RO PUMP	ENR-E-THRM-SMS-ACWP-WTRT	200007858	4PW
553019038	REPAIR GTG EXHAUST DIFFUSER CRACKS	ENR-E-THRM-SMS-CTG1-EXHS	400015407	4PC
512013982	REBUILD #1 HP BFWP MINI FLOW	ENR-E-THRM-SMS-BFWP-HPFW	200007270	4PH
513011858	REBUILD STG LUBE OIL PUMPS	ENR-E-THRM-SMS-STG1-LUBE	200007631	4PS
553026705	REPLACE PLANT RADIOS	ENR-E-THRM-SMS-ZN03-CTRL	400021589	4PE
554009666	RE-ROUTE N2 TO HP DRUM	ENR-E-THRM-SMS-HRS1-HPST	200006477	4PB
512012864	SUMAS HRSG BLAST CLEANING	ENR-E-THRM-SMS-HRS1	200006476	4PH
513012200	LOW FLOW FROM CONDENSER SUMP PUMP	ENR-E-THRM-SMS-STG1-COND	200007822	4PN
553022347	REBUILD GTG LUBE OIL PUMPS	ENR-E-THRM-SMS-CTG1-LUBE	200007630	4PC
512013708	REPLACE ELEC CONDENSER VAC BREAKER VALVE	ENR-E-THRM-SMS-STG1-COND	200007151	4PH
512015475	REPACK HP SUPERHEATER PENETRATIONS	ENR-E-THRM-SMS-HRS1-TUBE	200008286	4PH
553021780	WONDERWARE PUNCH LIST	ENR-E-THRM-SMS-ZN03-CTRL	200007430	4PE

553022188	REPLACE GTG TRANSITION DUCT DOOR	ENR-E-THRM-SMS-CTG1-EXHS	200007590	4PD
553022270	PAINT GTG TRANSITION DUCT	ENR-E-THRM-SMS-CTG1-EXHS	200007626	4PD
553023559	REPLACE STM INJ DRAIN VALVES	ENR-E-THRM-SMS-CTG1-SINJ	200007896	4PC
512015091	REPLACE LP FEEDWATER HEAT TRACE	ENR-E-THRM-SMS-HRS1-LPFW	200008079	4PH
553020499	REPAIR GTG EXHAUST HOT SPOTS	ENR-E-THRM-SMS-CTG1-EXHS	400016484	4CB
512015343	REPAIR #2 IP BFW PUMP INBOARD BEARING	ENR-E-THRM-SMS-BFWP-IPFW	400020027	4CH
512015661	REBUILD HP LEVEL CTRL VLV FV-271-510	ENR-E-THRM-SMS-BFWP-HPFW	200008410	4PH
553023780	REPLACE STM INJ DRAIN VALVE 470	ENR-E-THRM-SMS-CTG1-SINJ	200007949	4PC
513013259	REPLACE CIRC PUMP BUILDING FAN	ENR-E-THRM-SMS-CTWR-CIRC	200008654	4PE
512014213	REPLACE AIR EJECTOR HOGGER AND NOZZLES	ENR-E-THRM-SMS-STG1-COND	200007553	4PH
512013666	RO WASH PUMP FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400016579	4CB
512015662	REBUILD IP LEVEL CNTL VLV FV-271-410	ENR-E-THRM-SMS-BFWP-IPFW	200008411	4PH
553023219	REPLACE CEMS O2 ANALYZER	ENR-E-THRM-SMS-SWGR-CEMS	200007832	4PE
513012429	FABRICATE STG TURNING GEAR PLATFORM	ENR-E-THRM-SMS-STG1-TURB	200007941	4PS
512014299	REBUILD ERV PILOT VALVE	ENR-E-THRM-SMS-HRS1-HPST	200007632	4PH
512014298	BLAST AND VACUUM SCR	ENR-E-THRM-SMS-HRS1-SCRN	200007589	4PH
513011736	REPLACE STG HYD ACCUMULATOR BLADDERS	ENR-E-THRM-SMS-STG1-HYDS	200007591	4PS
514008674	NH3 SYSTEM COMMUNICATION FAILED	ENR-E-THRM-SMS-CTWR-AMMO	400016172	4CB
512015040	REPLACE WEST AIR EJECTOR NOZZLES	ENR-E-THRM-SMS-STG1-COND	200008020	4PB
513011638	STG ACOUSTIC TESTING	ENR-E-THRM-SMS-STG1-GENR	200007498	4PS
513013086	REBUILD HOTWELL CONTROL VLV LV-271-252	ENR-E-THRM-SMS-STG1-COND	200008397	4PN
513011854	SIEMENS 4700 POWER METER FAILED	ENR-E-THRM-SMS-SWGR-ELEC	400017677	4CB
512016117	REPAIR HP EVAP BLOWDOWN VALVE	ENR-E-THRM-SMS-HRS1-HPST	400021791	4CH
552006985	TROUBLESHOOT GAC HVAC UNIT	ENR-E-THRM-SMS-CTG1-HVAC	400017572	4CB
512016119	REPAIR 570 BLOCK VLV TO ATMO BDOWN	ENR-E-THRM-SMS-HRS1-HPST	400021793	4CH
513012422	REPLACE STG HYD ACCUMULATORS	ENR-E-THRM-SMS-STG1-HYDS	200007913	4PS
512014287	REBUILD HP DESUP TV-560 ATTEMP VALVE	ENR-E-THRM-SMS-HRS1-HPST	200007580	4PH
513013365	PAINT INTERIOR OF CIRC PUMP BUILDING	ENR-E-THRM-SMS-CTWR-CIRC	200008686	4PB
553019837	TROUBLESHOOT CEMS ANALYZER - RESET SPAN	ENR-E-THRM-SMS-SWGR-CEMS	400015894	4CB
553027299	INSPECT GTG EXHAUST DIFFUSER FOR CRACKS	ENR-E-THRM-SMS-CTG1-EXHS	200008984	4PD
552006601	REPAIR TURBINE COMPT #2 VENT FAN	ENR-E-THRM-SMS-CTG1-HVAC	400016704	4CB
512014885	INSTALL IP BLOCK VALVE BYPASS	ENR-E-THRM-SMS-HRS1-IPST	200007912	4PH
553025663	INSTALL TROLLEY BEAMS ON GTG INLET	ENR-E-THRM-SMS-CTG1-ENCL	200008432	4PC
553025733	MODIFY NOX STEAM DRAIN PIPING	ENR-E-THRM-SMS-CTG1-SINJ	200008453	4PC

553023784	CLEAN SOUTH GTG LUBE OIL COOLER	ENR-E-THRM-SMS-CTG1-LUBE	200007985	4PC
513011085	REPLACE HOTWELL LEVEL TRANSMITTERS	ENR-E-THRM-SMS-STG1-COND	400016550	4PN
512015140	REPLACE IP BYPASS VALVE	ENR-E-THRM-SMS-HRS1-IPST	400019636	4CH
512015671	REPLACE IP CROSSOVER VLVS V230,V231,V232	ENR-E-THRM-SMS-BFWP-IPFW	200008429	4PH
554010174	PRESSURE WASH HRSG AND GTG ALLEY	ENR-E-THRM-SMS	200006930	4PF
553025806	PERFORM GTG COMPR EDDY CURRENT TESTING	ENR-E-THRM-SMS-CTG1-CLSL	200008482	4PC
552007492	STG BLDG EAST ROOF EXHAUST FAN NOISY	ENR-E-THRM-SMS-STG1-TURB	200008143	4PB
553023587	GTG BORESCOPE INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200007915	4PC
553021359	INSTALL GTG VAPOR EXTRACTOR AIR HORNS	ENR-E-THRM-SMS-CTG1-LUBE	200007327	4PC
553025735	REPLACE GTG AUX HYD PUMP MOTOR	ENR-E-THRM-SMS-CTG1-HYDS	200008455	4PC
553022238	SUMAS GAS TURBINE BORESCOPE INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200007554	4PC
513010398	SUMAS STG VIBRATION / ALIGNMENT	ENR-E-THRM-SMS-STG1-GENR	400015290	4CB
511007661	CUT TREES BY TRANSFORMER YARD FENCE	ENR-E-THRM-SMS-XFMR-YARD	200007474	4PB
512016002	INSTALL TEMPORARY ACID LINE TO CT	ENR-E-THRM-SMS-ACWP-WTRT	200008655	4PW
513013410	REBUILD #1 CIRC WATER BOOST PUMP	ENR-E-THRM-SMS-CTWR-CIRC	400021513	4CO
512011522	INSTALL PRESS XMTR ON DEMISTER	ENR-E-THRM-SMS-CTG1-LUBE	400013539	4CB
553027302	GTG COMBUSTION INSPECTION PREP WORK	ENR-E-THRM-SMS-CTG1-COMB	200008971	4PC
512014877	REPLACE LP BLOCK VALVE EV-321	ENR-E-THRM-SMS-HRS1-LPST	200007900	4PH
512015540	INSTALL NEW ELECTRICAL PANEL BY HP PUMPS	ENR-E-THRM-SMS-BFWP-HPFW	200008277	4PH
511008397	REPAIR POND ACCESS	ENR-E-THRM-SMS-XFMR-YARD	200008743	4PB
552006554	REPAIR OIL DRUM CONTAINMENT BERM	ENR-E-THRM-SMS-STG1-TURB	400016118	4CB
513011987	WIRE PLANT UPS TO DARS	ENR-E-THRM-SMS-SWGR-ELEC	200007695	4PE
553020987	GTG FIRING TEMP 2035 NOT WORKING	ENR-E-THRM-SMS-ZN03-CTRL	400016853	4PE
553022320	CEMS CLEAN UP/RELIABILTY/REWORK	ENR-E-THRM-SMS-SWGR-CEMS	200007511	4PE
514009915	REPAIR BRIDGE CRANE & CERT LIFTING BEAM	ENR-E-THRM-SMS-STG1-TURB	400020453	4PB
554010279	ORDER SPARE WTR PLANT PLC CONTROLLER	ENR-E-THRM-SMS-ACWP-WTRT	200007149	4PW
511007954	REPAIR ROCK BASE EAST OF COOLING TOWER	ENR-E-THRM-SMS-XFMR-YARD	200007988	4PB
512013991	HP #2 CHEM PUMP FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400017038	4CB
513011994	REPAIR EMER DIESEL GEN 480 BREAKER	ENR-E-THRM-SMS-BOP1-EGEN	400018236	4CE
512015512	RE-PLUMB BLEACH LINE FROM PUMP TO CT	ENR-E-THRM-SMS-ACWP-WTRT	200008324	4PW
553022386	TROUBLESHOOT GTG #4 BRNG 4Y PROXIMETER	ENR-E-THRM-SMS-CTG1-GENR	200007637	4PC
513011069	GROUT STG SOLEPLATES	ENR-E-THRM-SMS-STG1-GENR	200007078	4PS
553020908	RE-INSULATE LO COOLER LINES <(>&<)> EQUI	ENR-E-THRM-SMS-CTG1-LUBE	200007202	4PC
512014382	LEVEL TRANSMITTER LT-525 FAILING	ENR-E-THRM-SMS-HRS1-HPST	400017826	4CH

549005025	CREATE CONTRACTOR ORIENTATION VIDEO	ENR-E-THRM-SMS	200008340	4FS
552006709	INSTALL NEW EYE WASH IN LAB AND SHOP	ENR-E-THRM-SMS-BLDG-MISC	200007227	4PB
512014520	REPLACE HP, IP, AND LP DRUM DOOR GASKETS	ENR-E-THRM-SMS-HRS1-TANK	200007674	4PH
512014620	NORTH IP LVL XMTR NOT WORKING	ENR-E-THRM-SMS-HRS1-IPST	400018308	4CH
512015476	REPACK IP SUPERHEATER PENETRATIONS	ENR-E-THRM-SMS-HRS1-TUBE	200008287	4PH
553023381	GTG #5 BEARING PROXIMETER PROBE FAILED	ENR-E-THRM-SMS-CTG1-GENR	400018871	4CE
512013389	REPLACE #2 RAW WATER PUMP	ENR-E-THRM-SMS-ACWP-WTRT	400015912	4CB
512013660	RO SYSTEM CLEANING	ENR-E-THRM-SMS-ACWP-WTRT	200007076	4PW
553026030	GAS SPEED RATIO SERVO FAILING	ENR-E-THRM-SMS-CTG1-FGAS	200008559	4PC
512015469	REPLACE HP STM HDR DRIP LEG VLV EV-570	ENR-E-THRM-SMS-HRS1-HPST	200008284	4PH
513010461	ADD OIL TO STG SUMP	ENR-E-THRM-SMS-STG1-LUBE	200006484	4PS
513011267	TROUBLESHOOT STG DUMP VLV PV-STG-02	ENR-E-THRM-SMS-STG1-TURB	400016884	4CB
553025950	GAS TURBINE IGINTION FAILURE	ENR-E-THRM-SMS-CTG1-CTRL	400020913	4CB
554011942	REBUILD GT AIR TO PLANT AIR REGULATOR	ENR-E-THRM-SMS-CTG1-CAIR	200008973	4PB
512012845	REPLACE IP STEAM FLOW XMTR FT-453	ENR-E-THRM-SMS-HRS1-IPST	400015207	4CB
514008998	PAINT NH3 TNK GUARD POSTS, PIPE SUPPORTS	ENR-E-THRM-SMS-CTWR-AMMO	200007369	4PB
513011639	REMOVE STG GENERATOR END CAPS	ENR-E-THRM-SMS-STG1-GENR	200007499	4PS
552006704	INSTALL 6 HIGH BAY LIGHTS IN WATER PLANT	ENR-E-THRM-SMS-ACWP-WTRT	400016763	4PB
512014181	WTR PLANT CONDUCTIVITY ANALYZER FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400017432	4CB
513011524	INSTALL STG VAPOR EXTRACTOR AIR HORNS	ENR-E-THRM-SMS-STG1-TURB	200007391	4PS
553023013	REMOVE WATER WASH RINSE WATER	ENR-E-THRM-SMS-CTG1-WASH	200007810	4PC
511007292	CHECK IA CATH PROT FROM TURB TO CT END	ENR-E-THRM-SMS-CTWR-BOP1	400016360	4PB
513013562	REPAIR ITEMS FOUND DURING IR SURVEY	ENR-E-THRM-SMS-SWGR-ELEC	400022101	4PE
514009344	TROUBLESHOOT NH3 BLOWER CHECK VALVE	ENR-E-THRM-SMS-CTWR-AMMO	200007813	4PB
553024608	REPAIR #1 STM INJ VALVE HEAT TRACE CABLE	ENR-E-THRM-SMS-CTG1-FPRT	400020016	4CE
513001020	2011INSTL CT FAN INTRLCK FM GLOBAL REQUE	ENR-E-THRM-SMS-BOP1-CTWR	400005393	4CB
512015720	REPLACE HRSG DRAIN VALVES	ENR-E-THRM-SMS-BFWP-HPFW	200008448	4PH
511008486	REPLACE TRANSFORMER YARD LIGHTS	ENR-E-THRM-SMS-XFMR-YARD	400021843	4CA
512014914	DA TANK VISUAL INSPECTION	ENR-E-THRM-SMS-HRS1-TANK	200007951	4PH
513012140	REPAIR STG TG ELEC CABLE TO SOLENOID	ENR-E-THRM-SMS-STG1-TURB	400018307	4CE
553019839	STRIP & RE-PAINT CO2 TANK	ENR-E-THRM-SMS-CTG1-FIRE	200006859	4PY
513012423	REPLACE UPS PANEL IN EC3 <(><> RUN NEW	ENR-E-THRM-SMS-SWGR-ELEC	200007920	4PE
554011663	SUMAS PLANT SPRING CLEANING	ENR-E-THRM-SMS	200008494	4PB
512012844	REPLACE HP STEAM FLOW XMTR FT-553	ENR-E-THRM-SMS-HRS1-HPST	400015206	4PH



512016118	REPAIR HP SUP HTR DRAIN POT DRAIN VALVE	ENR-E-THRM-SMS-HRS1-HPST	400021792	4CH
512014942	REPLACE LAB COMPUTER	ENR-E-THRM-SMS-ACWP-WTRT	200007959	4PB
512013665	REPLACE HP <(>&<)> IP BLOWDOWN METERING	ENR-E-THRM-SMS-HRS1-HPST	400016575	4CB
553020026	SUMAS-LYNDEN LINE RUNBACK	ENR-E-THRM-SMS-ZN03-CTRL	200006929	4PE
513013569	REPAIR BROKEN CT #1 FAN CONTACTOR BODY	ENR-E-THRM-SMS-CTWR-BOP1	400022182	4CO
512013266	INSTALL BARS FOR GET IN/OUT OF HP&LPDRUM	ENR-E-THRM-SMS-HRS1-HPST	400015729	4PH
554011136	MKVIE #1 SERVER MONITOR FAILED	ENR-E-THRM-SMS-ZN03-CTRL	400019199	4CA
513012434	STG VIBRATION MONITORING	ENR-E-THRM-SMS-ZN04-STG1	200007980	4PS
512014884	REPLACE HP SUPERHEAT VENT NORTH ROOT VLV	ENR-E-THRM-SMS-HRS1-HPST	200007898	4PH
514009918	AIR COMPRESSOR #1 UNLOADING PROBLEMS	ENR-E-THRM-SMS-ACWP-CAIR	200008433	4PB
552007187	MODIFY SHOP GRINDER BENCH	ENR-E-THRM-SMS-BLDG-MISC	200007794	4PB
553021356	REPLACE CTG VAPOR EXTRACTOR BLOWER	ENR-E-THRM-SMS-CTG1-LUBE	400017218	4CB
553026617	WATER WASH SOAP DISPOSAL	ENR-E-THRM-SMS-CTG1-WASH	200008758	4PC
512013567	COOLING TOWER BLEACH PUMP FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400016385	4CB
552006198	MISC. WALK-THROUGH DOOR REPAIRS	ENR-E-THRM-SMS-BLDG-MISC	400015103	4CB
513011067	REPLACE CONDENSER HOTWELL LVL XMTR	ENR-E-THRM-SMS-STG1-COND	400016481	4CB
512015787	ACID TANK LEVEL TRANSMITTER FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400020955	4CW
514008723	AMMONIA PUMP FAILED	ENR-E-THRM-SMS-CTWR-AMMO	400016454	4CB
511007746	SUMAS FRONT GATE NOT OPERATING	ENR-E-THRM-SMS-XFMR-YARD	400017957	4CA
513011739	SUMAS 2014 METER AND RELAY CHECKS	ENR-E-THRM-SMS-SWGR-ELEC	200007613	4PE
513013248	REPLACE BLEACH TANK TRANSMITTER	ENR-E-THRM-SMS-ACWP-WTRT	200008621	4PE
553023897	REPLACE STEAM INJ HEAT TRACE CIRCUIT	ENR-E-THRM-SMS-CTG1-SINJ	200008003	4PE
553023072	GTG CO2 FIRE PANEL F07/F11 ALARM ACTIVE	ENR-E-THRM-SMS-CTG1-FIRE	200007795	4CE
553023230	GTG STOP SPEED RATIO VLV SERVO T FAILED	ENR-E-THRM-SMS-CTG1-FGAS	400018727	4CC
570006907	OIL LEAK IN GEN STEP-UP XFMR 1	ENR-E-THRM-SMS-CTG1-GENR	400017834	4CT
513010979	CONDENSER DP XMTR GAGE ROD OUT	ENR-E-THRM-SMS-STG1-COND	400016456	4CB
553022262	WATER PLANT COMPUTER FROZE	ENR-E-THRM-SMS-ZN03-CTRL	400017725	4CB
512016193	SJAE RELIEF VALVE LEAKING AT FLANGE	ENR-E-THRM-SMS-STG1-COND	200008885	4PB
513013572	REPAIR #2 STG LO PUMP MOTOR BEARING	ENR-E-THRM-SMS-STG1-LUBE	400022214	4CS
514009444	#1AIR COMPRESSOR MOISTURE TRAP ISSUE	ENR-E-THRM-SMS-ACWP-CAIR	400018711	4CF
552007821	REPLACE CHEMICAL BUILDING FAN	ENR-E-THRM-SMS-ACWP-WTRT	200008691	4PB
513011926	INSTALL VACUUM PUMP ON CONDENSER	ENR-E-THRM-SMS-STG1-COND	200007648	4PN
511007360	INSTALL NEW DRAIN BLOCKERS	ENR-E-THRM-SMS-XFMR-YARD	200007113	4PB
513013249	REPAIR CIRC PUMP #1 OIL LEAK	ENR-E-THRM-SMS-CTWR-CIRC	400021192	4CA

514008291	REPLACE AIR SYSTEM DEW POINT MONITOR	ENR-E-THRM-SMS-ACWP-CAIR	400015256	4CB
513013366	CIRC PUMP 2 AND 3 MECH SEALS LEAKING	ENR-E-THRM-SMS-CTWR-CIRC	200008687	4PB
513012007	WATER BOX SIGHT GLASS REPLACEMENT	ENR-E-THRM-SMS-STG1-COND	200007730	4CN
549003184	REPLACE BOARDS OVER CIRC WATER PUMP PIT	ENR-E-THRM-SMS-CTWR-BOP1	400015727	4FS
512014045	REPLACE HOGGER / AIR EJECTOR PRV	ENR-E-THRM-SMS-HRS1-HPST	200007310	4PH
512015239	RO SYS CONDUCTIVITY AND PH PROBE FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400019902	4CW
553019085	REPLACE GAS DETECTOR LEL SENSORS	ENR-E-THRM-SMS-CTG1-FIRE	400015429	4CB
513010997	REPLACE FILL LINES ON PO4 ACID TANK	ENR-E-THRM-SMS-ACWP-WTRT	200007039	4PO
514008997	REBUILD COMPRESSED AIR DRYER VALVES	ENR-E-THRM-SMS-ACWP-CAIR	200007367	4PB
512013388	WATER PLANT COMPUTER FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400015899	4CB
553021625	GTG VAPOR EXTRACTOR VAC GAUGE FAILED	ENR-E-THRM-SMS-CTG1-LUBE	400017376	4CB
513012573	REPLACE #1 CIRC WTR BOOST PMP MECH SEAL	ENR-E-THRM-SMS-CTWR-CIRC	200008077	4CO
514008675	AMMONIA SKID AC UNIT FAILED	ENR-E-THRM-SMS-CTWR-AMMO	400016173	4CB
553020698	INPUT NOX PPM @ 15% O2 @ ISO INTO DCS	ENR-E-THRM-SMS-ZN03-CTRL	400016331	4PE
552007288	INSTALL OUTLET FOR CORD AT SHOP TABLE	ENR-E-THRM-SMS-BLDG-MISC	200007891	4PB
514009089	TROUBLESHOOT #2 NH3 BLOWER CHECK VALVE	ENR-E-THRM-SMS-CTWR-AMMO	200007586	4PB
512015781	UPGRADE WATER PLANT COMPUTER	ENR-E-THRM-SMS-ACWP-WTRT	200008542	4PW
553020907	REPLACE WTR WASH TANK SITE GLASS	ENR-E-THRM-SMS-CTG1-WASH	200007201	4PC
553022565	REFILL WATER WASH SOAP TANK	ENR-E-THRM-SMS-CTG1-WASH	200007668	4PC
514010172	PERFORM MAINT ON AIR COMPRESSOR #1	ENR-E-THRM-SMS-ACWP-CAIR	200008906	4PB
554011152	TROUBLESHOOT SCISSOR LIFT PROBLEMS	ENR-E-THRM-SMS-BLDG-MISC	400019079	4CA
552006570	HYDRAULIC PRESS PUMP FAILED	ENR-E-THRM-SMS-BLDG-MISC	400016373	4CB
513010275	HP STM BLOCK MOV540 FAILED TO OPEN	ENR-E-THRM-SMS-HRS1-HPST	400015096	4CB
513011566	REPLACE COOLING TOWER CELL #2 VFD	ENR-E-THRM-SMS-CTWR-BOP1	200007356	4PO
512014892	REPAIR LEAK IN #1 HP BFW PUMP PLUG	ENR-E-THRM-SMS-BFWP-HPFW	400019307	4CH
512014887	TROUBLESHOOT WATER PLANT COMPUTER	ENR-E-THRM-SMS-ACWP-WTRT	200007940	4PW
553012060	HAVE CUST. TRIP SHOW ON BAILEY	ENR-E-THRM-SMS-ZN03-CTRL	400010761	4CB
513012433	REPLACE STG GEN GROUNDING BRUSHES	ENR-E-THRM-SMS-STG1-GENR	200007960	4PS
553026428	TROUBLESHOOT #2 WONDERWARE SERVER	ENR-E-THRM-SMS-ZN03-CTRL	200008674	4PE
512014896	REPLACE IP DRUM SOUTH VENT VALVE	ENR-E-THRM-SMS-HRS1-IPST	200007983	4PH
511008120	COOLING TOWER CONDUIT BROKEN	ENR-E-THRM-SMS-CTWR-BOP1	400019602	4CA
553022439	REPLACE BROKEN GTG GENERATOR FILTERS	ENR-E-THRM-SMS-CTG1-GENR	400017883	4CB
511007660	REPAIR NE SOUNDWALL GATE	ENR-E-THRM-SMS-XFMR-YARD	200007473	4PB
511007313	REPLACE T1 CONTAINMENT DRAIN VALVE	ENR-E-THRM-SMS-XFMR-YARD	400016159	4CB

552006809	ORGANIZE STG SUMP AREA	ENR-E-THRM-SMS-STG1-TURB	200007279	4PB
513013002	RE-ROUTE STG FIRE SYS FLOW TEST LINE	ENR-E-THRM-SMS-STG1	200008276	4PY
513013411	LEVEL 3 BATTERY TEST - BAT5546	ENR-E-THRM-SMS-CTG1-DCEL	200008754	4PE
512014180	INSTALL TIMER FOR AMINE TANK AGGITATOR	ENR-E-THRM-SMS-ACWP-WTRT	400017356	4PW
554010240	REPAIR PLANT MEGGER	ENR-E-THRM-SMS-BLDG-MISC	200006983	4PB
513010976	CLNG WTR LINES SHORTED AT 6" SS FLANGE	ENR-E-THRM-SMS-STG1-COND	400016339	4CB
512016288	REPAIR CRACKS IN HP PENTHOUSE	ENR-E-THRM-SMS-HRS1-HPST	200008982	4PH
511007315	STG BUILDING VENT FAN FAILED	ENR-E-THRM-SMS-STG1-TURB	400016324	4CB
513012731	HOTWELL CONTROL VALVE FAILING	ENR-E-THRM-SMS-STG1-COND	200008175	4PN
511007667	PAINT FIRE WTR UNDERGROUND VLV COVERS	ENR-E-THRM-SMS-XFMR-YARD	200007629	4PB
512013990	LP DRUM STEAM TRACE LINE BLOWN	ENR-E-THRM-SMS-HRS1-FPRT	400017037	4CB
512014211	REPLACE EV270 STEAM TRAP	ENR-E-THRM-SMS-HRS1-IPST	400017571	4CB
553021781	MKVIE PUNCH LIST ITEMS	ENR-E-THRM-SMS-ZN03-CTRL	200007431	4PE
552006553	LIGHTS OUT AT WHSE NORTH & E&C HALLWAY	ENR-E-THRM-SMS-ZN02-WHSE	400016047	4CB
511007314	REPLACE T2 CONTAINMENT DRAIN VALVE	ENR-E-THRM-SMS-XFMR-YARD	400016250	4CB
512013984	AMINE LEVEL SWITCH FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400016950	4CB
513011086	LABEL NEW EC2 BREAKERS	ENR-E-THRM-SMS-SWGR-ELEC	200007084	4PE
553020930	MODIFY CTG SCHUETT RUNBACK SCHEME	ENR-E-THRM-SMS-ZN03-CTRL	200007212	4PE
553021358	INSPECT/REPLACE GTG GENERATOR BRUSHES	ENR-E-THRM-SMS-CTG1-GENR	200007326	4PE
513013403	CLEAN EC1, EC2, EC3, AND EC4	ENR-E-THRM-SMS-SWGR-ELEC	200008742	4PE
512016188	REPAIR ATMOSPHERIC BLOWDOWN HEAT TRACE	ENR-E-THRM-SMS-BFWP-FPRT	400021898	4CH
553024932	TROUBLESHOOT #1 STEAM INJECTION VALVE	ENR-E-THRM-SMS-CTG1-SINJ	200008251	4PC
512013356	REPAIR HP/IP DESUP STEAM TRAP DRAIN LINE	ENR-E-THRM-SMS-HRS1-TUBE	400015928	4CB
553024061	FILL CO2 TANK	ENR-E-THRM-SMS-CTG1-FIRE	400019549	4PY
554010271	REPAIR EC AND WAREHOUSE LIGHTS	ENR-E-THRM-SMS-FACL-BLDG	400016356	4CB
553020290	GTG GAS DETECTOR FAILED	ENR-E-THRM-SMS-CTG1-ENCL	400016269	4PC
512013831	IP/LP LETDOWN STM TRAP STAYING OPEN	ENR-E-THRM-SMS-HRS1-IPST	400016832	4CB
553023382	CLEAN SWITCHGEAR	ENR-E-THRM-SMS-SWGR-ELEC	200007853	4PE
512014883	REPLACE AIR EJEC IP MOTIVE STM DRAIN	ENR-E-THRM-SMS-HRS1-IPST	200007897	4PH
552006203	REPLACE EMERGENCY DIESEL GEN BATTERIES	ENR-E-THRM-SMS-BOP1-EGEN	200006413	4PB
553019401	REPLACE BOLTS IN LOAD TUNNEL ON GTG	ENR-E-THRM-SMS-CTG1-EXHS	400015592	4CB
514009707	SECONDARY AIR DRYER FAILED	ENR-E-THRM-SMS-ACWP-CAIR	400019823	4CA
513013252	TROUBLESHOOT AUX CIRC PUMP WIRING	ENR-E-THRM-SMS-CTWR-CIRC	400021194	4CE
553022263	TROUBLESHOOT EV VALVE SIGNAL ON DCS	ENR-E-THRM-SMS-ZN03-CTRL	200007605	4CE

553021354	SCOPE GTG EXHAUST DIFFUSER REPLACEMENT	ENR-E-THRM-SMS-CTG1-EXHS	200007323	4PD
512015791	REPLACE #2 HP BFW PUMP PACKING	ENR-E-THRM-SMS-BFWP-HPFW	200008346	4PH
553025065	RESEARCH BATTERY TESTING EQUIPMENT	ENR-E-THRM-SMS-ZN03-CTRL	200008314	4PE
552007266	REPAIR DRAIN IN LAB	ENR-E-THRM-SMS-STG1-TURB	400019106	4CA
553022017	MODIFY GTG VAPOR EXTRACTOR AIR HORNS	ENR-E-THRM-SMS-CTG1-LUBE	200007521	4PC
512013707	TROUBLESHOOT/REPLACE WTR PLANT PH PROBE	ENR-E-THRM-SMS-ACWP-WTRT	400016611	4CB
511007680	SCOPE REPLACE COOLING TOWER DECK	ENR-E-THRM-SMS-CTWR-BOP1	200007469	4PB
511007585	CUT TREES IN POND	ENR-E-THRM-SMS-XFMR-YARD	200007368	4PB
512014357	REPAIR IP FWTR CONTROL VALVE TRENCH	ENR-E-THRM-SMS-BFWP-IPFW	400017884	4CH
553024079	MKVIE SERVER 2 VIDEO CARD FAILED	ENR-E-THRM-SMS-ZN03-CTRL	400019666	4CE
512013281	REPLACE HP CROSS-OVER VALVE V-047	ENR-E-THRM-SMS-HRS1-HPST	400015667	4CB
512014731	RAW WATER TANK VLV LV-150 NEEDS TUNING	ENR-E-THRM-SMS-ACWP-WTRT	400018737	4CW
511007361	REPLACE LIGHT FIXTURE - TOP OF CT STAIRS	ENR-E-THRM-SMS-CTWR-BOP1	400016600	4CB
513011271	REPAIR COOLING TOWER VFD DISPLAY	ENR-E-THRM-SMS-CTWR-BOP1	400016930	4PE
553021236	REPAIR DIAPHRAGM PUMP	ENR-E-THRM-SMS-CTG1-LUBE	400017102	4CB
552007904	WELD REPAIR GEN FILTER ACCESS LADDER	ENR-E-THRM-SMS-CTG1-GENR	200008985	4PB
552006530	MOVE CHEM STORAGE EYEWASH DRAIN OUTSIDE	ENR-E-THRM-SMS-ACWP-WTRT	200006928	4PB
552006989	REPAIR OR REPLACE EC1 OVERHEAD LIGHTING	ENR-E-THRM-SMS-BLDG-MISC	400017774	4CA
552007274	FABRICATE DOWNSPOUTS FOR CWBP HOUSE	ENR-E-THRM-SMS-STG1-TURB	400019258	4PB
553025817	CLEAN UNDER GTG GENERATOR	ENR-E-THRM-SMS-CTG1-GENR	200008492	4PC
513013241	REPAIR CONDUIT IN COOLING TOWER	ENR-E-THRM-SMS-CTWR-BOP1	400021128	4CO
553018481	REPLACE DOT MATRIX PRINTER	ENR-E-THRM-SMS-ZN03-CTRL	400015093	4CB
513011270	STG #1 LUBE OIL PUMP FAILED	ENR-E-THRM-SMS-STG1-LUBE	400016885	4CB
513013023	REPROGRAM COOLING TOWER VFD'S	ENR-E-THRM-SMS-CTWR-BOP1	200008325	4PE
514008531	TROUBLESHOOT NH3 SYSTEM HEATER	ENR-E-THRM-SMS-CTWR-AMMO	400015687	4CB
513013255	ADJUST COOLING TOWER FAN BLADE PITCH	ENR-E-THRM-SMS-CTWR-BOP1	200008643	4PO
553026320	TROUBLESHOOT CEMS NOX ANALYZER	ENR-E-THRM-SMS-SWGR-CEMS	200008627	4PE
511007508	REMOVE PIPING FROM GAS YARD	ENR-E-THRM-SMS-XFMR-YARD	200007350	4PB
554010175	SERVICE LUBE OIL PURIFIER	ENR-E-THRM-SMS-BLDG-MISC	200006931	4PB
512014846	ADD VLV INDICATION LIGHT TO VAC BREAKER	ENR-E-THRM-SMS-STG1-COND	200007855	4PB
514009715	REPAIR PRIMARY AIR DRYER	ENR-E-THRM-SMS-ACWP-CAIR	400019990	4CA
552007102	REPAIR WAREHOUSE ROLLUP DOOR	ENR-E-THRM-SMS-ZN02-WHSE	400018104	4CA
553023393	REPAIR EAST LOAD TUNNEL DOOR LATCH	ENR-E-THRM-SMS-CTG1-ENCL	400019020	4CC
553027317	REPLACE GTG GENERATOR SHAFT BRUSHES	ENR-E-THRM-SMS-CTG1-GENR	200008994	4PE

513010991	EC1 BLDG FIRE SYS SMOKE DETECTOR FAILED	ENR-E-THRM-SMS-BLDG-FIRE	400016321	4CB
512014897	REPLACE HP DRAIN POT VALVE 570	ENR-E-THRM-SMS-HRS1-HPST	200007984	4PH
512015852	REPAIR BLEACH PUMP	ENR-E-THRM-SMS-ACWP-WTRT	400021145	4CW
512014624	REPLACE IP RELIEF VALVE	ENR-E-THRM-SMS-HRS1-IPST	200007806	4PH
514009131	REBUILD AIR DRYER VALVES	ENR-E-THRM-SMS-ACWP-CAIR	200007485	4PB
554011063	CORROSION ON EMER DIESEL GEN MTR HEATER	ENR-E-THRM-SMS-BOP1-EGEN	400018358	4CA
553025885	TROUBLESHOOT KNOCKOUT DRUM LVL SWITCH	ENR-E-THRM-SMS-CTG1-FGAS	200008498	4PM
552007447	REPLACE STG BUILDING ROLLUP DOOR SEALS	ENR-E-THRM-SMS-STG1-TURB	200008185	4PB
553020140	STG TRIP LOG NOT WORKING	ENR-E-THRM-SMS-ZN03-CTRL	400016141	4CB
553019916	CEMS PLC NOT OPERATING CORRECTLY	ENR-E-THRM-SMS-SWGR-CEMS	400015929	4CB
553019958	INSPECT CTG EXH DIFFUSER & LOAD TUNNEL	ENR-E-THRM-SMS-CTG1-EXHS	400016013	4CB
552007833	TROUBLESHOOT GTG FIRE SYSTEM ALARMS	ENR-E-THRM-SMS-CTG1-FIRE	200008751	4PB
513010992	TROUBLESHOOT UPS INVERTER ALARM	ENR-E-THRM-SMS-SWGR-ELEC	400016323	4CB
553020715	TROUBLESHOOT GAS TURBINE IGV'S	ENR-E-THRM-SMS-CTG1-IGVS	400016619	4CB
513011068	REPAIR HRSG HEADER DRAIN LEAK	ENR-E-THRM-SMS-HRS1-HRSG	400016482	4CB
552006208	INSTALL CIRCUIT FOR GENERATOR SUMP PUMP	ENR-E-THRM-SMS-CTG1-GENR	400015178	4CB
512013383	REBUILD DA NOZZLES	ENR-E-THRM-SMS-HRS1-TANK	200006850	4PH
553023015	REPAIR ONLINE WATER WASH NOZZLE	ENR-E-THRM-SMS-CTG1-WASH	400018579	4CC
512015041	REPLACE INSULATION REMOVED FOR OUTAGE	ENR-E-THRM-SMS-HRS1-HPST	200008021	4PH
512014898	REPLACE IP RELIEF VALVE	ENR-E-THRM-SMS-HRS1-IPST	200007986	4PH
512007545	2013 FIRE PROT NOZZELS HAVE STARTED TO C	ENR-E-THRM-SMS-ACWP-FIRE	400009943	4CB
514009139	AIR COMPRESSOR #1 FITTING BLEW OUT	ENR-E-THRM-SMS-ACWP-CAIR	400017835	4CB
512014721	AIR LINE TO VAC BREAKER IS SHAKING	ENR-E-THRM-SMS-STG1-COND	200007831	4PB
512016323	REPAIR IP MOTIVE STEAM RELIEF VALVE	ENR-E-THRM-SMS-HRS1-IPST	400022283	4CH
553025415	INSTALL EXHAUST MUFFLERS ON STM INJ VLVS	ENR-E-THRM-SMS-CTG1-SINJ	200008355	4PC
513010463	REPAIR VENT COVER ON CIRC WTR BSTR PUMPS	ENR-E-THRM-SMS-CTWR-CIRC	400015379	4CB
553022382	CHECK IGV BUSHING CLEARANCES	ENR-E-THRM-SMS-CTG1-IGVS	200007634	4PC
513012822	CLEAN & REPAIR STG FRONT STD AIR INLET	ENR-E-THRM-SMS-STG1-TURB	200008199	4PS
513012730	STG SEAL STEAM REGULATORS FAILED	ENR-E-THRM-SMS-STG1-GLND	400019889	4CS
511008351	REPAIR CHIP IN TRUCK WINDSHIELD	ENR-E-THRM-SMS-XFMR-YARD	200008430	4PB
512015765	FAB OPN/CLOSE CHAIN FOR TRTD WTR PMP 34	ENR-E-THRM-SMS-ACWP-WTRT	200008483	4PW
513013963	VACUUM & CLEAN EC 1, 2, 3, AND 4	ENR-E-THRM-SMS-SWGR-ELEC	200009142	4PE
512016061	REPLACE LP EXTRACTION STEAM TRAP	ENR-E-THRM-SMS-BFWP-LPFW	200008741	4PH
512016194	REPAIR EV561 HP VENT RELIEF VALVE	ENR-E-THRM-SMS-HRS1-HPST	400022045	4CH

513013251	INSTALL AUX CIRC PUMP CHECK VALVE	ENR-E-THRM-SMS-CTWR-CIRC	200008622	4PB
511008492	REPLACE GFCI OUTLETS AROUND WAREHOUSE	ENR-E-THRM-SMS-ZN02-WHSE	200008883	4PB
511008388	REPLACE MISSING CT NOZZLE & SPRAY RING	ENR-E-THRM-SMS-CTWR-BOP1	400021209	4CA
554011135	INSTALL PI SYSTEM FIREWALL	ENR-E-THRM-SMS-ZN03-CTRL	200007919	4PB
552007264	REPAIR DE-COUPLED CONDUIT EAST OF GTG	ENR-E-THRM-SMS-CTG1-GENR	400019100	4CA
512016290	REPLACE IP TO LP STEAM TRAP & PIPING	ENR-E-THRM-SMS-HRS1-LPST	200008986	4PH
553022264	NUISANCE ALARM STILL PRINTS WHEN LOCKED	ENR-E-THRM-SMS-ZN03-CTRL	200007606	4PE
513011985	CHANGE STG GENERATOR FILTERS	ENR-E-THRM-SMS-STG1-GENR	200007667	4PS
513012734	SAMPLE OIL ON #1 CIRC WATER BOOSTER PUMP	ENR-E-THRM-SMS-CTWR-CIRC	200008181	4PO
553025940	REPLACE GTG GAS KNOCKOUT SWITCHES	ENR-E-THRM-SMS-CTG1-FGAS	200008541	4PM
513013573	STEAM SEAL REGULATOR VALVE FAILED	ENR-E-THRM-SMS-STG1-TURB	400022253	4CS
553022089	REPLACE GTG EXHAUST DIFFUSER	ENR-E-THRM-SMS-CTG1-EXHS	200007486	4PC
554009704	CEMS O2 SENSOR FAILED	ENR-E-THRM-SMS-SWGR-CEMS	400015106	4CB
512013992	REPLACE #1 HP CHEM FEED PUMP	ENR-E-THRM-SMS-ACWP-WTRT	400017039	4CB
549004044	FABRICATE BRACKET FOR GAS CYLINDERS	ENR-E-THRM-SMS-HRS1-HRSG	200007714	4FS
554011128	PI SYSTEM WENT OFFLINE	ENR-E-THRM-SMS-ZN03-CTRL	400019040	4CA
513010839	CLEAN EC SWITCHGEAR	ENR-E-THRM-SMS-SWGR-ELEC	200006951	4PE
511007308	INSTALL FIRE EXT. IN TRACTOR SHED	ENR-E-THRM-SMS-ZN02-WHSE	200006945	4PB
553018513	CEMS NOX ANALYZER FAILED	ENR-E-THRM-SMS-SWGR-CEMS	400015134	4CB
553018483	GTG FLAME INTENSITY OFF THE CHARTS	ENR-E-THRM-SMS-ZN03-CTRL	400015097	4CB
512013571	FIX / UPDATE ROCKWELL SOFTWARE	ENR-E-THRM-SMS-ACWP-WTRT	400016388	4PW
514008734	SERVICE PLANT AIR COMPRESSORS	ENR-E-THRM-SMS-ACWP-CAIR	200007087	4PB
513010978	REPLACE COOLING TOWER FP PRESS SWITCH	ENR-E-THRM-SMS-CTWR-FIRE	400016455	4CB
553023303	PLANT CONTROL SYS BACKUP DRIVE FAILED	ENR-E-THRM-SMS-ZN03-CTRL	400018738	4CE
553023596	REPAIR WATER WASH PUMP COUPLING	ENR-E-THRM-SMS-CTG1-WASH	400019195	4CC
511007686	REPAIR MINI WHSE ROLLUP DOOR	ENR-E-THRM-SMS-ZN02-WHSE	400017642	4PB
512015083	REBUILD DA NOZZLES	ENR-E-THRM-SMS-HRS1-TANK	200008051	4PH
549003484	REPAIR EYE WASH STATION AT AMMONIA TANK\	ENR-E-THRM-SMS-CTWR-AMMO	400016852	4FS
511007083	REPLACE WAREHOUSE HIGH BAY LIGHT	ENR-E-THRM-SMS-ZN02-WHSE	400015208	4CB
513013910	REPLACE STG LO FILTER DP PRESS GAUGES	ENR-E-THRM-SMS-STG1-LUBE	200009066	4PS
511007362	CORRECT TRIP HAZARDS AROUND COOLING TWR	ENR-E-THRM-SMS-XFMR-YARD	200007114	4PB
553026700	GTG EMISSIONS TESTING	ENR-E-THRM-SMS-SWGR-CEMS	200008790	4PE
514009711	PERFORM MAINTENANCE ON #1 AIR COMPRESSOR	ENR-E-THRM-SMS-ACWP-CAIR	200008167	4PB
513011143	STG GENERATOR RTD IS FAILING	ENR-E-THRM-SMS-STG1-GENR	400016685	4CB

511007382	REPAIR WHSE HIGH BAY LIGHT	ENR-E-THRM-SMS-ZN02-WHSE	400016707	4CB
553026980	PERFORM GTG BORESCOPE INSPECTION	ENR-E-THRM-SMS-CTG1-COMB	200008854	4PC
512016605	REPAIR RO PIPING VENT LINE	ENR-E-THRM-SMS-ACWP-WTRT	400022778	4CW
513013491	REPLACE 13.8KV DOOR FILTERS IN EC1	ENR-E-THRM-SMS-SWGR-ELEC	200008856	4PE
511007319	COOLING TOWER INSPECTION	ENR-E-THRM-SMS-CTWR-BOP1	200007077	4PB
511008302	REPAIR COOLING TOWER SIDING	ENR-E-THRM-SMS-CTWR-BOP1	400020310	4CA
552007455	REPLACE / REPAINT EMER DIESEL GEN SIGNS	ENR-E-THRM-SMS-BOP1-EGEN	200008216	4PB
512013358	REPLACE #2 IP PP SUCTION GAUGE	ENR-E-THRM-SMS-BFWP-IPFW	400015943	4CB
554011915	CREATE NEW HP BFWP TAGS FOR ROVISYS	ENR-E-THRM-SMS-ZN03-CTRL	200008948	4PB
511007310	CLEAN PLANT PARKING LOT	ENR-E-THRM-SMS-XFMR-YARD	200006967	4PB
512014816	#1 IP FEED PUMP SEAL PRESS GAUGE BROKEN	ENR-E-THRM-SMS-BFWP-IPFW	400018855	4CH
512014732	REPLACE WATER TRMT PLANT COMPUTER	ENR-E-THRM-SMS-ACWP-WTRT	200007839	4PW
553023538	RUN GTG LO PURIFIER AND RE-TAKE SAMPLE	ENR-E-THRM-SMS-CTG1-LUBE	200007878	4PC
553022109	CHANGE CONTROL SEQUENCE ON STG MKVI	ENR-E-THRM-SMS-ZN03-CTRL	200007547	4PE
513013118	REPAIR MCC BUCKETS FOR IP & ST HYD	ENR-E-THRM-SMS-SWGR-ELEC	200008493	4PE
513010600	BLEACH PUMP LEAKING	ENR-E-THRM-SMS-ACWP-WTRT	400015494	4CB
552007165	RELOCATE LIGHT IN MINI WAREHOUSE	ENR-E-THRM-SMS-ZN02-WHSE	200007812	4PB
512013830	TROUBLESHOOT #2 ACID PUMP ELECTRICAL	ENR-E-THRM-SMS-ACWP-WTRT	400016831	4CB
512014878	TROUBLESHOOT IP MINI FLOW CONTROLS	ENR-E-THRM-SMS-BFWP-IPFW	200007901	4PH
513011162	CHK COOLING TWR MASTER FAN SPEED TUNING	ENR-E-THRM-SMS-CTWR-BOP1	400016675	4CB
553020697	TROUBLESHOOT 39VS-102 READING 45.7MILS	ENR-E-THRM-SMS-CTG1-GENR	400016342	4CB
512013983	TROUBLESHOOT HEAT TRACE BREAKER TRIPS	ENR-E-THRM-SMS-HRS1-FPRT	400016957	4CB
511003600	ABB CLD DRAWING NUMBERS INCORRECT	ENR-E-THRM-SMS-ZN03-CTRL	400010154	4CB
553020039	CHANGE CEMS DARS CONFIGURATION	ENR-E-THRM-SMS-SWGR-CEMS	400016140	4PE
553020184	GTG AUX LO PP LOW PRESS SW FITTING LEAK	ENR-E-THRM-SMS-CTG1-LUBE	400016162	4CB
553018480	BRG METAL TORQUE CONVERTER T/C#22 FAILED	ENR-E-THRM-SMS-CTG1-STRT	400015092	4CB
513010399	CW POS SWITCH NOT FUNCTIONING PROPERLY	ENR-E-THRM-SMS-CTWR-CIRC	400015322	4CB
553018948	TROUBLESHOOT CEMS DARS PROGRAM ERRORS	ENR-E-THRM-SMS-SWGR-CEMS	400015376	4CB
512015147	WATER PLANT XMTR PT-159 FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400019712	4CW
512014390	LEVEL CONTROL REG VALVE LIC-410 LEAKS BY	ENR-E-THRM-SMS-HRS1-IPST	400017894	4CH
514008632	NH3 SYSTEM COMMUNICATION FAILED	ENR-E-THRM-SMS-CTWR-AMMO	400016062	4CB
512013906	HP STM HDR DRAIN TRAP UNION <(>&<)> SUPT	ENR-E-THRM-SMS-HRS1-HPST	400016932	4PH
512014052	RAW WATER FLOW TRANSMITTER FAILED	ENR-E-THRM-SMS-ACWP-WTRT	400017334	4PW
512014128	TROUBLESHOOT WTR PLANT PH METER AIT-161	ENR-E-THRM-SMS-ACWP-WTRT	400017375	4CB

513011302	ASSIST RELAY GROUP W / 3000 BREAKER TEST	ENR-E-THRM-SMS-SWGR-ELEC	200007213	4PE
553020768	INSTALL NEW CEMS CEDAR SOFTWARE	ENR-E-THRM-SMS-SWGR-CEMS	400016646	4CB
511007441	REPAIR COZY LIGHTING	ENR-E-THRM-SMS-XFMR-YARD	400016736	4CB
513011140	STG VIBRATION AND GSU 1 & 2 PD ANALYSIS	ENR-E-THRM-SMS-STG1-GENR	200007170	4PS
511007312	CLEAN TRANSFORMER YARD CONTAINMENT AREA	ENR-E-THRM-SMS-XFMR-YARD	200007018	4PB
512013566	RAW WTR PMP FLOW METER NOT READING	ENR-E-THRM-SMS-ACWP-WTRT	400016358	4CB
513010998	CONDENSER WATER BOX TUBES CLOGGING	ENR-E-THRM-SMS-STG1-COND	400016431	4PN
513010875	TROUBLESHOOT STG RESET	ENR-E-THRM-SMS-STG1-CTRL	400015893	4CB
512013306	TROUBLESHOOT HP BFW PUMP #1	ENR-E-THRM-SMS-BFWP-HPFW	400015753	4CB
553014740	WONDERWARE PUNCH LIST	ENR-E-THRM-SMS-ZN03-CTRL	400012381	4CB
553023898	REPAIR LEAK ON GTG GAS VALVE	ENR-E-THRM-SMS-CTG1-FGAS	200008004	4PC
553023009	MARK VIE #2 SERVER VIDEO CARD FAILED	ENR-E-THRM-SMS-ZN03-CTRL	400018459	4CB
552006604	REPLACE CHEM BLDG LIGHTING PHOTO CELL	ENR-E-THRM-SMS-FACL-BLDG	400016677	4PB
552007654	TROUBLESHOOT MINI WAREHOUSE LIGHTING	ENR-E-THRM-SMS-ZN02-WHSE	200008431	4PB
553026322	REPLACE GTG WHEELSPACE TC WS3F02	ENR-E-THRM-SMS-CTG1-CTRL	200008644	4PC
512016600	REPLACE UNION ON IP/LP LETDOWN STM TRAP	ENR-E-THRM-SMS-HRS1-IPST	200009089	4PH
512013359	REPLACE #3 TW PP DISCHARGE PRESS GUAGE	ENR-E-THRM-SMS-ACWP-WTRT	400015944	4CB
514008999	CHK C PHASE LINE SIDE NH3 FUSE CONNECT	ENR-E-THRM-SMS-CTWR-AMMO	400017336	4PB
511007662	REPAIR / REPAINT OUTFALL SIGNAGE	ENR-E-THRM-SMS-XFMR-YARD	200007475	4PB
511007309	INSTALL LAWN EQUIP RACK IN TRACTOR SHED	ENR-E-THRM-SMS-XFMR-YARD	200006946	4PB
554011289	USED OIL DISPOSAL	ENR-E-THRM-SMS	200008078	4PB
512013355	REPAIR OR REPLACE 570 ISO VALVE	ENR-E-THRM-SMS-HRS1-HPST	400015927	4CB
552006816	CHK 88BT-2 T3 PHASE LINE SIDE LUG CONNEX	ENR-E-THRM-SMS-CTG1-HVAC	400017337	4PB
513011526	CHK A PHAS LINE SIDE PIVOT ON COND PMP#2	ENR-E-THRM-SMS-STG1-COND	400017335	4PN
512014053	CHK B PH LINE SIDE PIVOT ON IP BFW PMP#2	ENR-E-THRM-SMS-BFWP-IPFW	400017338	4PH
553020906	PECC NORTH EAST DOOR HANDLE STICKS OPEN	ENR-E-THRM-SMS-CTG1-BKRS	400016744	4PC
512013905	REPLACE HP FEED PMP DISCHARGE PRES GAUGE	ENR-E-THRM-SMS-BFWP-HPFW	400016931	4CB
513010276	HP FLOW XMTR FT-553 NEEDS INSULATION	ENR-E-THRM-SMS-HRS1-HPST	400015094	4CB
553018472	EXHAUST THERMOCOUPLE #2 FAILED	ENR-E-THRM-SMS-CTG1-COMB	400015176	4CB
514009203	REPAIR NH3 INJ GRID PIPE PACKING GLANDS	ENR-E-THRM-SMS-CTWR-AMMO	400018288	4CA
513012733	INVESTIGATE STG HYD PMP#2 A/C PHASE TEMP	ENR-E-THRM-SMS-STG1-HYDS	200008177	4PS
513012378	REPLACE SHAFT GROUNDING BRUSHES ON STG	ENR-E-THRM-SMS-STG1-GENR	400019089	4PS
512015360	REPLACE UPS IN LAB	ENR-E-THRM-SMS-ACWP-WTRT	200008193	4CW
553019369	EMERGENCY LIGHTS NOT WORKING	ENR-E-THRM-SMS-BLDG-EMRG	200006620	4CB



553026112	WELD GTG SUPPORT STRUTS	ENR-E-THRM-SMS-CTG1-EXHS	200008596	4PD
512015674	INSULATE HRSG BFW DRAIN VALVES	ENR-E-THRM-SMS-BFWP-HPFW	200008434	4PH
512015790	LMI PMP TEST, REBUILD & INVENTORY SPARES	ENR-E-THRM-SMS-ACWP-WTRT	200008557	4PW
512015859	REPLACE WATER PLANT COMPUTER	ENR-E-THRM-SMS-ACWP-WTRT	200008623	4PW
511008427	TROUBLESHOOT HVAC NOISE COMM RM	ENR-E-THRM-SMS-ZN02-WHSE	400021116	4CB
514009713	INVESTIGATE AMMONIA PANEL C/A PHASE TEMP	ENR-E-THRM-SMS-CTWR-AMMO	200008180	4PB
512015300	INVESTIGATE IP FEED PMP#1 A/C PHASE TEMP	ENR-E-THRM-SMS-BFWP-IPFW	200008178	4PH
512015301	INVESTIGATE IP FEED PMP#2 A/C PHASE TEMP	ENR-E-THRM-SMS-BFWP-IPFW	200008179	4PH
513012732	INVESTIGATE STG HYD PUMP #1 B PHASE TEMP	ENR-E-THRM-SMS-STG1-HYDS	200008176	4PS
512016287	MEGGER / PI HP FEEDWATER #2 MOTOR	ENR-E-THRM-SMS-BFWP-HPFW	200008981	4PH
553027318	REPLACE GTG SPARK PLUG LEADS	ENR-E-THRM-SMS-CTG1-CTRL	400022383	4CC
514009120	COVER AMMONIA TANK EMER VALVE SIGN	ENR-E-THRM-SMS-CTWR-AMMO	200007476	4PB
553021343	TROUBLESHOOT CEMS REPORT ERROR	ENR-E-THRM-SMS-SWGR-CEMS	400017133	4CB
511007462	HANG "NO TRESPASSING" SIGNS ON FENCE	ENR-E-THRM-SMS-XFMR-YARD	200007236	4PB
552006603	MINI OUTSIDE LIGHTING NEEDS PHOTO CELL	ENR-E-THRM-SMS-ZN02-WHSE	400016676	4PB
512013832	LEAK ON DRAIN LINE 90 FOR IP/LP STM TRAP	ENR-E-THRM-SMS-HRS1-IPST	400016833	4CB
511007290	REPAIR FRONT MANGATE	ENR-E-THRM-SMS-XFMR-YARD	400016064	4CB
512012865	TROUBLESHOOT LT-325 TRANSMITTER	ENR-E-THRM-SMS-HRS1-LPST	400015326	4CB
514009241	SECONDARY AIR DRYER IN LEFT TOWER LEAKS	ENR-E-THRM-SMS-ACWP-CAIR	400018028	4CA
513010876	CONDENSATE BLOCK VALVE EV321 LEAKS BY	ENR-E-THRM-SMS-BFWP-LPFW	400015911	4CB
513011525	CHECK A PHASE LINE ON STG HYD PUMP #2	ENR-E-THRM-SMS-STG1-HYDS	200007392	4PS
512014054	CHK A PH LOAD SIDE WIRE LUG ON CONT #201	ENR-E-THRM-SMS-ACWP-WWTR	400017339	4PW
512013677	CHECK HP DE-SUPERHEATER VALVE	ENR-E-THRM-SMS-HRS1-HPST	200007174	4PH
511007440	WIRE UP CO LOCK BOX FOR SWITCHYARD KEY	ENR-E-THRM-SMS-XFMR-YARD	200007200	4PB
554010275	ADD EXTENSION TO POND VALVE	ENR-E-THRM-SMS-ZN08-BOP1	200007079	4PB
554010249	CIRC WATER BLDG VENT FAN NOT WORKING	ENR-E-THRM-SMS-CTWR-CIRC	400016507	4CB
511007295	PARKING LOT SUMP PUMP NOT WORKING	ENR-E-THRM-SMS-XFMR-YARD	400016508	4CB
552006436	STG SUMP PUMP WON'T START IN AUTO	ENR-E-THRM-SMS-STG1-TURB	400015861	4CB
512014733	INSTALL NEW LAB/DCS WALL MOUNT MONITOR	ENR-E-THRM-SMS-ACWP-WTRT	200007850	4PW
512012636	LT-325 LP DRUM LEVEL FAILED	ENR-E-THRM-SMS-HRS1-LPFW	400015107	4CB
512012582	HRSG HEAT TRACE-IP ITERM B.D./HP TRIPPED	ENR-E-THRM-SMS-HRS1-FPRT	400014694	4CB
513012144	TROUBLESHOOT STG #1 LUBE OIL PUMP	ENR-E-THRM-SMS-STG1-LUBE	200007778	4PS
513012563	STG DC LO PUMP NOT SHOWING CORRECT POSI	ENR-E-THRM-SMS-STG1-LUBE	200008050	4PS
513012644	TROUBLESHOOT STG DC LO PUMP ALARM	ENR-E-THRM-SMS-STG1-LUBE	200008061	4PS

552006964	GTG CONTROL CAB HEAT PUMP TRIPPED	ENR-E-THRM-SMS-CTG1-HVAC	400017485	4CB
553022388	REPLACE FAILED GTG WHEELSPACE TC 2A01	ENR-E-THRM-SMS-CTG1-COMB	400017895	4CC
512014480	INSTALL TIMER CNTL CIRCUIT IN WATER LAB	ENR-E-THRM-SMS-ACWP-WTRT	200007660	4PW
513013641	CONDENSER HOTWELL INSPECTION	ENR-E-THRM-SMS-STG1-COND	200008868	4PN
553020696	TROUBLESHOOT 39VS-101 READING 66.9MILS	ENR-E-THRM-SMS-CTG1-GENR	400016341	4CB
511007586	PULL PIGS FROM POND	ENR-E-THRM-SMS-XFMR-YARD	200007390	4PB
552006324	DIESEL GENERATOR ROOF LEAKS	ENR-E-THRM-SMS-BOP1-EGEN	400015420	4CB
513010701	CT BLOWDOWN SIPHON PUMP FAILED TO START	ENR-E-THRM-SMS-CTWR-CIRC	200006621	4CB
512014281	CLEAN IP FEED PUMP STRAINER	ENR-E-THRM-SMS-BFWP-IPFW	200007508	4PH
553021105	REPLACE CTG GENERATOR BRUSHES	ENR-E-THRM-SMS-CTG1-GENR	200007226	4PC
553019917	TROUBLESHOOT PRIMARY AIR DRYER	ENR-E-THRM-SMS-SWGR-CEMS	400015960	4CB
552006566	CLEAN OUT TURBINE HALL PAINT LOCKER	ENR-E-THRM-SMS-BLDG-MISC	200007112	4PB
552007283	FABRICATE OIL BOOM STORAGE BOX	ENR-E-THRM-SMS-BLDG-MISC	200007851	4PB
552006600	INSTALL NEW CAL SOFTWARE ON LAPTOP	ENR-E-THRM-SMS-BLDG-MISC	200007150	4PB
552006555	MOVE CLUTTER FROM EC4 PANEL & CONEX WALK	ENR-E-THRM-SMS-BLDG-MISC	200006947	4PB
552006983	RE-ORGANIZE COMM ROOM	ENR-E-THRM-SMS-BLDG-MISC	200007482	4PB
554011660	RE-ORGANIZE WEST CONNEX	ENR-E-THRM-SMS-BLDG-MISC	200008449	4PF
552006928	REPAIR CONCRETE SLAB AT SOUTH STAIRWAY	ENR-E-THRM-SMS-BLDG-MISC	200007549	4PB
552007087	REPAIR PLANT DOOR STOPS	ENR-E-THRM-SMS-BLDG-MISC	400018039	4CA
552008022	REPLACE ADMIN BLDG STAIRWELL INSULATION	ENR-E-THRM-SMS-BLDG-MISC	200009068	4PB
554011544	REPLACE ADMIN STAIR LIGHT FIXTURE W/LED	ENR-E-THRM-SMS-ZN13-ADMN	200008323	4PF
554011661	RUN POWER TO TRACTOR SHED	ENR-E-THRM-SMS-FACL-BLDG	200008454	4PF
554010264	SERVICE FIELD MOWER	ENR-E-THRM-SMS-BLDG-MISC	200007019	4PB
554010244	TROUBLESHOOT STEAM CLEANER	ENR-E-THRM-SMS-BLDG-MISC	400016405	4CB

Regulatory work is fixed and is not included. Inspection work to assess equipment condition is not included. Orders only. Maintenance performed on admin bldg and grounds are not included. Maintenance work performed on the shop and warehouse are, since both

monthly fees of \$12,500

	98522	SHOP, MAINTENANCE	41645
	11501208	SMALL TOOLS	41456
			41492
			42100
	11501231	OFFICES, BLDG ADMINISTRATION	07/15/2013
	11501208	SMALL TOOLS	08/12/2013
	98522	SHOP, MAINTENANCE	09/19/2013
	11501208	SMALL TOOLS	09/23/2013
	11501231	OFFICES, BLDG ADMINISTRATION	09/25/2013
	98521	ROOM, CONTROL	02/12/2014
	11501231	OFFICES, BLDG ADMINISTRATION	03/24/2014
	11501231	OFFICES, BLDG ADMINISTRATION	04/28/2014
	98522	SHOP, MAINTENANCE	09/22/2014
			10/19/2015
	11501231	OFFICES, BLDG ADMINISTRATION	12/21/2015
SMS14OCT	80314	MTR RO 1 FEED PMP 271 374	41934
SMS14OCT	77789	PUMP RO FEED ASSEMBLY #2 271 375	41925
			42086
			41548
	98500	GROUNDS, FACILITY	42058
	11501215	REVERSE OSMOSIS SYSTEM	41520
	11501221	FENCE & GATE CONT	41750
SMS14OCT	11501704	BRUSHES STEAM TURB GENR	41925
SMS_OUTG			42142
	11501220	PAVEMENT	41792
SMS14OCT	98500	GROUNDS, FACILITY	41925
	11501262	INSTRUMENTATION	42201
			41400
			41507
	98500	GROUNDS, FACILITY	41540

	11501207	STG MK VIe CONTROLLER (SIMPLEX)	41701
	11501188	RELAYS, PROTECTIVE	41576
	11501704	BRUSHES STEAM TURB GENR	41886
	11502096	HEATING & AIR CONDITIONING	42180
	98500	GROUNDS, FACILITY	41660
	11501243	TURB:MNQC NON DLN,GE MS 7001	42309
			42310
SMS14OCT	11501243	TURB:MNQC NON DLN,GE MS 7001	41921
	11501243	TURB:MNQC NON DLN,GE MS 7001	41736
	11501243	TURB:MNQC NON DLN,GE MS 7001	42303
SMS14OCT	11503194	VESSEL DA	41925
	11501679	BRUSHES GAS TURB GENR	41649
			41438
	11501243	TURB:MNQC NON DLN,GE MS 7001	42249
	78194	COOLING TOWER, STRUCTURE	41520
	11501697	HOTWELL, CONDENSER	42310
	11501237	BLDG WATER TREATMENT PLANT	41569
	98500	GROUNDS, FACILITY	42255
	11501235	BLDG MAIN WAREHOUSE	41477
			41505
	78194	COOLING TOWER, STRUCTURE	41551
	11501226	BLDG ELECTRICAL AND CONTROL ROOM	41722
	11503668	CONDENSER VACUUM BREAKER	41844
	11502237	ELECTRICAL, BLDG MAIN WAREHOUSE	41330
	11502237	ELECTRICAL, BLDG MAIN WAREHOUSE	41568
			41568
	98594	BLDG MINI WAREHOUSE	42095
	98520	LIGHTING, EMERGENCY DC	41372
	98594	BLDG MINI WAREHOUSE	41589
			42044

Revision	Equipment	Description	Sched. start
SMS_OUTG			03/09/2015
	76705	TANK, CTG LUBE OIL	09/16/2013
			04/14/2014
SMS_OUTG			03/16/2015
SMS14OCT	78194	COOLING TOWER, STRUCTURE	10/27/2014
SMS14OCT	80314	MTR RO 1 FEED PMP 271 374	41934
SMS14OCT			05/19/2014
SMS14OUT	11501914	MTR CT FAN 271 501 03	05/19/2014
	78194	COOLING TOWER, STRUCTURE	12/08/2014
SMS13OUT	11501292	GENR STEAM TURB 271 026	04/22/2013
SMS14OUT			05/27/2014
	111170	PIPING, DISCH STG BLDG SUMP PUMP SYSTEM	08/10/2015
SMS_OUTG	78194	COOLING TOWER, STRUCTURE	10/26/2015
	11501150	DISTRIBUTED CONTROL SYSTEM	01/13/2014
	11501243	TURB:MNQC NON DLN,GE MS 7001	11/01/2015
SMS14OCT	77789	PUMP RO FEED ASSEMBLY #2 271 375	41925
			03/08/2013
SMS14OCT	11501829	PMP ASSY 1 HP BFW	10/09/2014
SMS14OUT	11501808	PMP ASSY EMER LUBE OIL	05/08/2014
	11501376	RADIO SYS	07/29/2015
SMS13OUT	11501880	VESSEL HP DRUM 25311 93W	04/26/2013
SMS13OUT			04/28/2013
SMS14OCT	11501700	PMP AND MTR ASSEMBLIES	10/23/2014
SMS14OUT	11501250	PMP AND MTR ASSEMBLIES	05/05/2014
	11503668	CONDENSER VACUUM BREAKER	05/08/2014
SMS_OUTG	11501344	SUPERHEATER 1 HP	05/18/2015
	11501150	DISTRIBUTED CONTROL SYSTEM	05/11/2015

SMS14OUT			04/21/2014
			05/19/2014
SMS14OCT	11501646	VALVES CONTROL	11/24/2014
SMS_OUTG	11501319	LP FEEDWATER INSTRUMENTATION	05/18/2015
			09/03/2013
	11503317	PMP 2 IP BFW 271 075	12/29/2014
SMS_OUTG	11501831	HP FEEDWATER CONTROL VALVES	05/11/2015
SMS14OCT	11501646	VALVES CONTROL	10/13/2014
	11501196	PMP AND MTR ASSEMBLIES	08/17/2015
SMS14OUT	11501885	EJECTOR HOGGING 271 050 16	05/14/2014
	11501542	PUMP AND MOTOR ASSEMBLIES	10/28/2013
SMS_OUTG	11501841	IP FEEDWATER CONTROL VALVES	05/11/2015
	11501851	CEMS ANALYZER INSTRUMENTATION	07/27/2015
SMS14OCT	11501308	TURNING GEAR	10/20/2014
SMS14OUT	11501873	VALVES SAFETY / RELIEF	05/19/2014
SMS14OUT			05/12/2014
SMS14OUT	11512871	ACCUMULATOR, STG HYD SYSTEM AHI-1	05/09/2014
	11522097	PLC, AMMONIA SKID	07/22/2013
SMS_OUTG	11501885	EJECTOR HOGGING 271 050 16	05/11/2015
	11501292	GENR STEAM TURB 271 026	04/07/2014
SMS_OUTG	11504007	VLV HOTWELL DRAIN V 002	05/11/2015
SMS14OUT	11501188	RELAYS, PROTECTIVE	05/19/2014
	11501872	VALVES MANUAL	09/08/2015
			03/10/2014
	11503533	VLV STG STOP VLV BEFORE SEAT DRAIN V040	08/27/2015
SMS14OCT	11512867	STG1 HYDRAULIC SYSTEM EQUIPMENT	10/20/2014
SMS14OUT	11501871	VALVES CONTROL	05/15/2014
			09/14/2015
	11501320	CEMS CONTROL SYSTEM	06/06/2013
			11/02/2015
	11501273	BLWRS AND FANS	10/28/2013
SMS14OCT	100706	VALVES, IP STEAM BLOCK MOV440	10/13/2014
			42086
SMS_OUTG	11501267	VALVES	05/18/2015



SMS14OCT	11501469	COOLER, CTG LUBE OIL HX101A	10/16/2014
	11504022	XMTR LVL STG HOTWELL LT 255	01/06/2014
	11503602	VLV GLOBE PCV 475 BYPASS V 032	11/04/2014
SMS_OUTG	11501843	IP FEEDWATER GATE VALVES	05/26/2015
			07/22/2013
SMS_OUTG			05/11/2015
	11501238	FANS, ROOF AND WALL	02/18/2015
SMS14OCT	11501243	TURB:MNQC NON DLN,GE MS 7001	10/09/2014
	11501604	MTR VAPOR EXTRACTOR BLWR	01/27/2014
	11503092	MTR AUX HYDRAULIC OIL SUPPLY	04/20/2015
	11501243	TURB:MNQC NON DLN,GE MS 7001	04/07/2014
SMS13OUT	11501292	GENR STEAM TURB 271 026	05/09/2013
	11501221	FENCE & GATE CONT	04/14/2014
	11503801	PMP SULFURIC ACID FEED 271 370 01	06/11/2015
	11501482	PMP ASSY 1 CIRC BOOST	07/20/2015
	11501247	BLWRS AND FANS	05/28/2014
	11501243	TURB:MNQC NON DLN,GE MS 7001	10/26/2015
SMS14OCT	11503630	VLV LP BLOCK VLV TO DA EV 321	10/13/2014
SMS_OUTG			05/11/2015
	98500	GROUNDS, FACILITY	08/03/2015
	11501233	BLDG STEAM TURBINE	08/05/2013
SMS14OUT	11501161	MAIN UPS SYS	05/18/2014
	11501151	MARK VIe CONTROL SYSTEM	09/30/2014
			04/28/2014
	11501521	CRANE BRIDGE 2.5 TON	03/11/2015
			41548
	98500	GROUNDS, FACILITY	42058
	11503796	PMP 2 HP CHEMICAL METER 271 204	12/09/2013
	11501154	GENERATOR	05/19/2014
	11501212	CHEMICAL FEED SYS	03/02/2015
	11503147	SENSOR VIBRATION 39VS91	04/01/2014
			09/03/2013
	77608	HEAT EXCHANGERS	10/21/2013
	100173	XMTR LVL HP STEAM DRUM LT 525	03/26/2014

			02/02/2015
	98522	SHOP, MAINTENANCE	01/06/2014
SMS14OUT			05/05/2014
SMS_OUTG	100170	XMTR LVL IP STEAM DRUM LT 425	05/07/2015
SMS_OUTG	11501346	SUPERHEATER IP	05/11/2015
	11503153	SENSOR VIB GENR COLLECTOR END 39VS102	07/15/2014
	11502767	PMP ASSY 2 RAW H2O	06/03/2013
	11501215	REVERSE OSMOSIS SYSTEM	41520
SMS_OUTG	11503020	VLV SERVO STOP SPEED RATIO 90SR1	05/17/2015
SMS_OUTG	11501871	VALVES CONTROL	05/18/2015
	76707	TANK, STG LUBE OIL	02/25/2013
	11501293	VALVES	11/07/2013
	11501597	TRANSFORMER IGNITION 95TR10	04/25/2015
	11501258	VALVES	10/26/2015
	11503541	XMTR FLOW IP STEAM HDR FI 453	02/25/2013
	11501193	VESSELS AND TANKS	06/23/2014
SMS14OUT	11501292	GENR STEAM TURB 271 026	05/04/2014
	11501237	BLDG WATER TREATMENT PLANT	10/22/2013
	11501545	INSTRUMENTATION	01/28/2014
	11501822	BLWR LUBE OIL VAPOR EXTRACTOR	02/26/2014
	98512	TANK, WATER WASH SOLUTION	06/23/2014
	78194	COOLING TOWER, STRUCTURE	09/03/2013
	11501186	LOW VOLTAGE AC SYS (<600V)	12/09/2015
SMS14OCT	11522073	SKID, HEATER/DILUTION AIR FAN	01/20/2015
			01/12/2015
	11501156	BLWRS AND FANS	06/17/2013
SMS_OUTG	11501314	VALVES	05/18/2015
	98500	GROUNDS, FACILITY	09/08/2015
SMS14OCT	11503194	VESSEL DA	10/13/2014
SMS14OCT	11501308	TURNING GEAR	10/13/2014
	11501641	VESSEL CTG CO2 FIRE SUPPRESSION	07/22/2013
SMS14OCT	11501161	MAIN UPS SYS	10/13/2014
			05/04/2015
	11503447	XMTR FLOW HP STEAM HDR FI 553	08/11/2014

	11503534	VLV STG STOP VLV BEFORE SEAT DRAIN V041	09/08/2015
	11501213	LABORATORY EQUIPMENT	10/06/2014
	11501327	VALVES	01/09/2014
	11501150	DISTRIBUTED CONTROL SYSTEM	07/09/2013
	11501908	MTR CT FAN 271 501 01	10/12/2015
	11501880	VESSEL HP DRUM 25311 93W	07/11/2013
	11501362	MONITOR PI SERVER	09/17/2014
			09/26/2014
SMS14OCT	11501871	VALVES CONTROL	10/13/2014
	77496	COMPRESSOR, 1 AIR	03/23/2015
	98522	SHOP, MAINTENANCE	06/30/2014
	11501604	MTR VAPOR EXTRACTOR BLWR	01/10/2014
	98512	TANK, WATER WASH SOLUTION	07/22/2015
	11502723	PMP CHEMICAL INJECT	08/16/2013
			02/25/2013
	11501697	HOTWELL, CONDENSER	09/03/2013
SMS_OUTG	11501531	INSTRUMENTATION	05/18/2015
	11522132	PUMP, AMMONIA PMP-300A	09/01/2013
	11501221	FENCE & GATE CONT	41750
SMS14OCT	11501188	RELAYS, PROTECTIVE	10/13/2014
	77792	TANK, STORAGE BLEACH 271 371	05/28/2015
	11501266	INSTRUMENTATION	11/24/2014
SMS14OCT	11501633	DETECTION INSTRUMENTATION	10/20/2014
SMS14OCT	11503020	VLV SERVO STOP SPEED RATIO 90SR1	10/20/2014
			05/12/2014
	11503176	PRES INSTRUMENTATION	09/03/2013
	11501150	DISTRIBUTED CONTROL SYSTEM	03/24/2014
	11501329	STEAM JET AIR EJECTOR	10/21/2015
	11503213	MTR 2 AC STG LUBE OIL PMP	10/19/2015
	77496	COMPRESSOR, 1 AIR	07/16/2014
	11501223	BLDG CHEMICAL STORAGE SHED	08/17/2015
	11501290	CONDENSER 271 037	04/03/2014
	98500	GROUNDS, FACILITY	10/14/2013
	11501484	PMP ASSY 1 CIRC	06/15/2015

	11502023	ELEM ANAL DEWPOINT INST/PLANT AIR AI052	03/18/2013
	11501196	PMP AND MTR ASSEMBLIES	08/13/2015
	11501697	HOTWELL, CONDENSER	05/15/2014
	78194	COOLING TOWER, STRUCTURE	06/03/2013
	11501327	VALVES	11/27/2013
	11501215	REVERSE OSMOSIS SYSTEM	12/08/2014
	11501633	DETECTION INSTRUMENTATION	06/11/2013
	77791	TANK, STORAGE ACID 271 370	09/03/2013
	11501408	DRYERS	01/17/2014
			06/03/2013
	11501249	INSTRUMENTATION	03/04/2014
	11502448	PMP 1 CIRC BOOST 271 155	11/10/2014
	11522111	SKID, AMMONIA	09/01/2013
	11501150	DISTRIBUTED CONTROL SYSTEM	02/04/2014
	98522	SHOP, MAINTENANCE	08/25/2014
	11522103	BLOWER ASSEMBLY AIR DILUTION C230B	03/10/2014
SMS_OUTG	11501213	LABORATORY EQUIPMENT	04/27/2015
	98512	TANK, WATER WASH SOLUTION	10/17/2013
	98512	TANK, WATER WASH SOLUTION	04/17/2014
	77496	COMPRESSOR, 1 AIR	10/12/2015
	11501209	SCISSOR LIFT	08/19/2014
	98522	SHOP, MAINTENANCE	10/14/2013
	100708	VALVES, HP STEAM BLOCK MOV540	01/28/2013
SMS14OUT	11501911	MTR CT FAN 271 501 02	05/07/2014
	11503237	PMP 1 HP BFW 271 066	10/29/2014
			10/20/2014
	11501517	ENGINEERING WORK STATION CIU	01/07/2013
SMS14OCT	11501704	BRUSHES STEAM TURB GENR	41925
	11501150	DISTRIBUTED CONTROL SYSTEM	06/16/2015
SMS14OCT	11503569	VLV GATE IP DRUM VENT V 001	10/13/2014
	78194	COOLING TOWER, STRUCTURE	11/03/2014
			04/08/2014
	11501221	FENCE & GATE CONT	03/03/2014
	98500	GROUNDS, FACILITY	09/09/2013

SMS_OUTG	11501233	BLDG STEAM TURBINE	12/09/2013
			42142
	BAT5546	BATTERY STA 120V 300 AH OR GREATER	11/03/2015
	11503791	PMP 1 CORR INHIB METERING 271 261	02/10/2014
	11501208	SMALL TOOLS	09/23/2013
	11501290	CONDENSER 271 037	09/03/2013
			11/02/2015
	11501238	FANS, ROOF AND WALL	08/19/2013
	11504007	VLV HOTWELL DRAIN V 002	12/15/2014
	11501220	PAVEMENT	41792
			12/05/2013
	11501331	VALVES	02/20/2014
	11501151	MARK VIe CONTROL SYSTEM	06/30/2014
	11501235	BLDG MAIN WAREHOUSE	07/22/2013
98500	GROUNDS, FACILITY	09/09/2013	
11503773	SWI LVL CORR INHIB TANK LSL 860	11/21/2013	
11501186	LOW VOLTAGE AC SYS (<600V)	10/14/2013	
11501151	MARK VIe CONTROL SYSTEM	02/10/2014	
11501679	BRUSHES GAS TURB GENR	01/10/2014	
		07/13/2015	
		09/14/2015	
11503078	VLV CONT STM INJ DRAIN WITH ACT VD11	01/27/2015	
		06/17/2013	
11501641	VESSEL CTG CO2 FIRE SUPPRESSION	10/28/2014	
		08/19/2013	
11501582	DETECTION, INSTRUMENT ENCL GAS LEAK	08/05/2013	
		10/31/2013	
		07/22/2014	
SMS14OCT	11501892	VALVES SAFETY / RELIEF	10/13/2014
	11501153	ENGINE DIESEL 030	11/04/2013
	11501279	SEALS, EXHAUST CTG	04/04/2013
	11502010	DRYER 2 AIR 271 103	11/24/2014
	11501196	PMP AND MTR ASSEMBLIES	06/01/2015
	11501150	DISTRIBUTED CONTROL SYSTEM	04/08/2014

			01/06/2014
	11503239	PMP 2 HP BFW 271 069	05/07/2015
	11501152	COMMUNICATION SYS	02/02/2015
	11501233	BLDG STEAM TURBINE	08/21/2014
	11501604	MTR VAPOR EXTRACTOR BLWR	02/18/2014
	11501535	INSTRUMENTATION	09/23/2013
	78194	COOLING TOWER, STRUCTURE	04/29/2014
	98500	GROUNDS, FACILITY	04/14/2014
SMS14OUT			05/20/2014
	11501151	MARK VIe CONTROL SYSTEM	11/11/2014
	11501872	VALVES MANUAL	04/29/2013
	11503980	VLV CONT LVL RAW H2O STORE TNK LV150	07/10/2014
	78194	COOLING TOWER, STRUCTURE	10/04/2013
	11501156	BLWRS AND FANS	12/04/2013
	11501250	PMP AND MTR ASSEMBLIES	12/23/2013
	11501230	BLDG GTG GENR ACCESSORY COMPARTMENT	11/09/2015
	11501223	BLDG CHEMICAL STORAGE SHED	06/25/2013
	11501226	BLDG ELECTRICAL AND CONTROL ROOM	03/24/2014
	11501233	BLDG STEAM TURBINE	10/06/2014
SMS_OUTG			05/18/2015
	11501156	BLWRS AND FANS	05/18/2015
	11501151	MARK VIe CONTROL SYSTEM	02/04/2013
	11501809	PMP ASSY 1 AC STG LUBE OIL	11/12/2013
SMS_OUTG			05/18/2015
	11501156	BLWRS AND FANS	05/18/2015
	11522075	ELEMENT, HEATER AMMONIA E-230A	04/15/2013
	11501156	BLWRS AND FANS	06/03/2015
	11501851	CEMS ANALYZER INSTRUMENTATION	06/02/2015
SMS14OCT			41925
	98500	GROUNDS, FACILITY	
	11501208	SMALL TOOLS	07/01/2013
	11503668	CONDENSER VACUUM BREAKER	07/24/2014
	11502009	DRYER 1 AIR 271 102	12/17/2014
	11501235	BLDG MAIN WAREHOUSE	05/06/2014
SMS14OCT			10/13/2014
	79726	DOORS, TURBINE ENCLOSURE	
	11501679	BRUSHES GAS TURB GENR	11/05/2015

			08/06/2013
SMS14OCT	11501871	VALVES CONTROL	10/13/2014
	11501532	PMP AND MTR ASSEMBLIES	05/21/2015
	11501892	VALVES SAFETY / RELIEF	06/18/2014
	11501168	DRYING EQUIPMENT	02/24/2014
	11501153	ENGINE DIESEL 030	06/02/2014
	11501260	INSTRUMENTATION	04/20/2015
	11501233	BLDG STEAM TURBINE	12/18/2014
	11501207	STG MK VIe CONTROLLER (SIMPLEX)	07/09/2013
	11501846	CONTROLLER CEMS PLC 01	06/06/2013
			06/13/2013
	11501262	INSTRUMENTATION	42201
	11501161	MAIN UPS SYS	08/06/2013
	11513158	VANES, CTG INLET GUIDE	09/30/2013
			09/03/2013
	11501230	BLDG GTG GENR ACCESSORY COMPARTMENT	05/30/2013
	11503194	VESSEL DA	05/28/2013
	98514	PUMP, WATER WASH SOLUTION ASSEMBLY	06/30/2014
SMS14OCT			11/24/2014
SMS14OCT	79725	VLV RELIEF IP ST PRES TO EJECTOR PSV 480	10/13/2014
			41400
	77530	COMPRESSOR, AIR 1 271 098	03/27/2014
SMS14OCT	11503668	CONDENSER VACUUM BREAKER	10/13/2014
	11501892	VALVES SAFETY / RELIEF	10/26/2015
	11501646	VALVES CONTROL	02/25/2015
	11501482	PMP ASSY 1 CIRC BOOST	02/28/2013
SMS14OUT	11513158	VANES, CTG INLET GUIDE	05/07/2014
			01/05/2015
			12/08/2014
	11501525	TRUCK	03/09/2015
	11503887	VLV GLOBE TREATED H2O PMP RECIRC V 034	06/15/2015
	11501435	BKRS ELECT AND CONT BLDG MCC EC1	12/28/2015
			08/31/2015
	11501871	VALVES CONTROL	09/23/2015

	11501196	PMP AND MTR ASSEMBLIES	06/15/2015
	11502237	ELECTRICAL, BLDG MAIN WAREHOUSE	09/14/2015
	78197	NOZZLES, COOLING TOWER	11/02/2015
	11501364	SERVER PI	09/04/2014
SMS14OCT	11501230	BLDG GTG GENR ACCESSORY COMPARTMENT	10/13/2014
			11/02/2015
	11501151	MARK VIe CONTROL SYSTEM	03/27/2014
	80310	FILTRATION, AIR STEAM TURB GENR	04/21/2014
	11502448	PMP 1 CIRC BOOST 271 155	12/09/2014
SMS_OUTG	11501260	INSTRUMENTATION	05/11/2015
	11501293	VALVES	10/15/2015
			02/24/2014
	11503365	CONDITIONER SIGNAL DATA O2 DY 03	01/17/2013
	11503792	PMP 1 HP CHEMICAL METERING 271 201	12/05/2013
			06/02/2014
	11501355	COMPUTER PI SERVER	08/11/2014
	11501161	MAIN UPS SYS	07/16/2013
	98493	EXTINGUISHERS FIRE #24	07/15/2013
	11501851	CEMS ANALYZER INSTRUMENTATION	02/10/2013
	102074	GTG MK VIe CONTROLLER (TMR)	02/04/2013
			41507
	11501422	COMPRESSORS	09/24/2013
	11501399	PRES INSTRUMENTATION	09/02/2013
	11501150	DISTRIBUTED CONTROL SYSTEM	07/22/2014
	98514	PUMP, WATER WASH SOLUTION ASSEMBLY	09/15/2014
	98596	DOOR, ROLLUP	03/10/2014
	11503194	VESSEL DA	10/27/2014
			11/06/2013
	11502237	ELECTRICAL, BLDG MAIN WAREHOUSE	02/25/2013
	11501305	INSTRUMENTATION/SWITCHES	12/10/2015
	98500	GROUNDS, FACILITY	41540
	11501851	CEMS ANALYZER INSTRUMENTATION	08/04/2015
	77496	COMPRESSOR, 1 AIR	12/08/2014
	11501292	GENR STEAM TURB 271 026	11/11/2013



SMS\_OUTG

11502237	ELECTRICAL, BLDG MAIN WAREHOUSE	10/21/2013
11501243	TURB:MNQC NON DLN,GE MS 7001	09/02/2015
11501215	REVERSE OSMOSIS SYSTEM	12/28/2015
11501184	BREAKERS GREATER THAN 600V	09/03/2015
78194	COOLING TOWER, STRUCTURE	09/03/2013
78194	COOLING TOWER, STRUCTURE	01/27/2015
11501225	BLDG DIESEL GENERATOR SET	01/12/2015
11503306	GAGE PRES IPFW PMP 2 SUCTION PI 407	06/10/2013
11501364	SERVER PI	11/12/2015
11501220	PAVEMENT	07/23/2013
11503315	PMP 1 IP BFW 1 271 072	07/23/2014
11501213	LABORATORY EQUIPMENT	07/14/2014
76705	TANK, CTG LUBE OIL	08/25/2014
11501207	STG MK VIe CONTROLLER (SIMPLEX)	41701
11501186	LOW VOLTAGE AC SYS (<600V)	05/11/2015
77792	TANK, STORAGE BLEACH 271 371	03/21/2013
98594	BLDG MINI WAREHOUSE	06/26/2014
11502723	PMP CHEMICAL INJECT	11/04/2013
11501317	IP FEEDWATER PUMP AND MOTOR ASSY	09/02/2014
11501156	BLWRS AND FANS	11/11/2013
11503153	SENSOR VIB GENR COLLECTOR END 39VS102	11/11/2013
		11/21/2013
11501363	SERVER DCS ENTERPRISE	07/18/2013
11501320	CEMS CONTROL SYSTEM	07/09/2013
11502961	SWI PRES LOLUBE OIL AUX PMP START 63QA1	07/22/2013
11503162	T/C TEMP BEARING METAL BTTQR1	02/05/2013
11501478	POSITION INSTRUMENTATION	02/11/2013
11501320	CEMS CONTROL SYSTEM	02/28/2013
11501545	INSTRUMENTATION	11/13/2014
11501330	INSTRUMENTATION	04/10/2014
11501191	INSTRUMENTATION	06/27/2013
11501328	VESSELS AND TANKS	01/06/2014
11502763	FLOW INSTRUMENTATION	01/16/2014
11501535	INSTRUMENTATION	01/23/2014

	11501188	RELAYS, PROTECTIVE	41576
	11501320	CEMS CONTROL SYSTEM	10/02/2013
	98500	GROUNDS, FACILITY	10/15/2013
	11501292	GENR STEAM TURB 271 026	10/02/2013
	11501221	FENCE & GATE CONT	08/12/2013
	11502763	FLOW INSTRUMENTATION	08/19/2013
	11501290	CONDENSER 271 037	09/03/2013
			05/28/2013
	11503236	MTR 1 HP BFW PMP 271 066	04/30/2013
	11501363	SERVER DCS ENTERPRISE	07/01/2013
	11503027	VLV STOP SPEED RATIO VSR1	10/17/2014
	11501151	MARK VIe CONTROL SYSTEM	06/23/2014
			10/21/2013
	98594	BLDG MINI WAREHOUSE	04/01/2015
	11502941	XMTR TEMP 2ND STAGE FOR OUT TTWS2FO2	11/02/2015
			12/14/2015
	11502737	PRES INSTRUMENTATION	06/10/2013
	98523	INSTRUMENTATION	02/18/2014
	98500	GROUNDS, FACILITY	02/10/2014
	98500	GROUNDS, FACILITY	07/15/2013
			11/11/2014
	11503530	VLV GLOBE LCV 570 INLET V 015	06/10/2013
	11501273	BLWRS AND FANS	01/21/2014
	11504042	MTR 2 COND PMP 271 046	01/21/2014
	11503316	MTR 2 IP BFW 271 075	01/21/2014
	11501437	BKR, MCC1 GTG	10/21/2013
	11503227	GAGE PRES HPFW PMP 1 DISC PI 506	11/18/2013
SMS13OUT	11503447	XMTR FLOW HP STEAM HDR FI 553	05/06/2013
	11501243	TURB:MNQC NON DLN,GE MS 7001	01/31/2013
	11522111	SKID, AMMONIA	05/19/2014
	11503207	MTR SERVO FLUID PMP 2 SPM2	12/22/2014
	11501704	BRUSHES STEAM TURB GENR	41886
	11501213	LABORATORY EQUIPMENT	12/23/2014
	98520	LIGHTING, EMERGENCY DC	04/08/2013

		05/20/2015
11501314	VALVES	03/17/2015
11502723	PMP CHEMICAL INJECT	06/22/2015
		07/06/2015
11502096	HEATING & AIR CONDITIONING	42180
11501191	INSTRUMENTATION	12/22/2014
11503314	MTR 1 IP BFW 1 271 072	12/22/2014
11503316	MTR 2 IP BFW 271 075	12/22/2014
11503205	MTR SERVO FLUID PMP 1 SPM1	12/22/2014
11503238	MTR 2 HP BFW PMP 271 069	11/02/2015
11501594	SPARK PLUG COMBUSTION CHAMBER 1 95SP1	11/05/2015
11522111	SKID, AMMONIA	02/10/2014
11501322	INSTRUMENTATION	12/16/2013
11501221	FENCE & GATE CONT	11/11/2013
98594	BLDG MINI WAREHOUSE	11/11/2013
		10/31/2013
11501221	FENCE & GATE CONT	07/22/2013
100175	XMTR LVL LP STEAM DRUM LT 325	02/19/2013
11502010	DRYER 2 AIR 271 103	11/11/2014
		06/17/2013
98760	PUMP, #2 HYDRAULIC FLUID STG	01/21/2014
11501159	PMP AND MTR ASSEMBLIES	01/21/2014
79723	VLV CONT FLO HPSTM BYP DESUPR FV 271 574	10/07/2013
11501221	FENCE & GATE CONT	10/15/2013
		09/16/2013
		09/11/2013
98500	GROUNDS, FACILITY	09/11/2013
11501233	BLDG STEAM TURBINE	05/28/2013
11501213	LABORATORY EQUIPMENT	07/10/2014
11503350	CONTLER LVL LP STEAM DRUM LIC 325	01/11/2013
		06/24/2013
11501809	PMP ASSY 1 AC STG LUBE OIL	05/28/2014
11501808	PMP ASSY EMER LUBE OIL	10/28/2014
11501808	PMP ASSY EMER LUBE OIL	10/30/2014

11501274	HEATER	01/06/2014
11501243	TURB:MNQC NON DLN,GE MS 7001	05/14/2015
11501213	LABORATORY EQUIPMENT	04/15/2014
11501697	HOTWELL, CONDENSER	11/02/2015
11503152	SENSOR VIB GENR COLLECTOR END 39VS101	11/11/2013
98500	GROUNDS, FACILITY	01/21/2014
11501225	BLDG DIESEL GENERATOR SET	05/28/2013
11501196	PMP AND MTR ASSEMBLIES	04/01/2013
11501834	STRAINER IP BFW PMP 1 IPBFW STNR 1	02/19/2014
11501679	BRUSHES GAS TURB GENR	11/04/2013
11503358	DRYER INST AIR D 530	06/10/2013
98522	SHOP, MAINTENANCE	09/19/2013
98522	SHOP, MAINTENANCE	09/22/2014
11501231	OFFICES, BLDG ADMINISTRATION	09/25/2013
11501231	OFFICES, BLDG ADMINISTRATION	07/15/2013
98521	ROOM, CONTROL	02/12/2014
		10/19/2015
11501231	OFFICES, BLDG ADMINISTRATION	03/24/2014
11501231	OFFICES, BLDG ADMINISTRATION	04/28/2014
11501231	OFFICES, BLDG ADMINISTRATION	12/21/2015
		02/09/2015
		04/06/2015
11501208	SMALL TOOLS	08/12/2013
11501208	SMALL TOOLS	09/23/2013

plants are needed for power generation. Sorted by actual costs from oldest to newest. Review MAT code "GEN" to find VM. Using PowerGads net actual generation, NAC



4393.72 CLSD PCNF MANC NMAT PRC SETC  
636.06 CLSD PCNF MANC NMAT PRC SETC  
617.3 CLSD PCNF GMPS NMAT PRC SETC  
0 CLSD PCNF GMPS MANC NMAT PRC SETC

0.00 CLSD PCNF NMAT PRC SETC  
0.00 CLSD PCNF NMAT PRC SETC  
0.00 CLSD CNF NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC  
0.00 CLSD PCNF NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC  
0.00 CLSD PCNF NMAT PRC SETC  
0.00 CLSD CNF MANC NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC  
0.00 TECO CNF MANC NMAT PRC SETC

118665.97 CLSD PCNF GMPS MANC NMAT PRC SETC  
40135.19 CLSD CNF GMPS MANC NMAT PRC SETC  
7983.89 CLSD PCNF GMPS MANC NMAT PRC SETC  
4917.75 CLSD PCNF MANC NMAT PRC SETC  
4909.41 CLSD PCNF MANC NMAT PRC SETC  
4134.7 CLSD CNF NMAT PRC SETC  
2128.17 CLSD GMPS NMAT PRC SETC  
1347.91 CLSD PCNF GMPS MANC NMAT PRC SETC  
1234.66 CLSD CNF MANC NMAT PRC SETC  
1098.97 CLSD PCNF MANC NMAT PRC SETC  
637.14 CLSD PCNF MANC NMAT PRC SETC  
577.75 CLSD CNF NMAT PRC SETC  
552.44 CLSD PCNF ESTC MANC MSCP NMAT PRC SETC  
431.47 CLSD PCNF NMAT PRC SETC  
394.96 CLSD PCNF NMAT PRC SETC

300.58 CLSD PCNF NMAT PRC SETC  
289.51 CLSD PCNF NMAT PRC SETC  
186.15 CLSD PCNF GMPS NMAT PRC SETC  
159.91 CLSD CNF NMAT PRC SETC  
72.43 CLSD PCNF NMAT PRC SETC

40650.21 TECO PCNF GMPS MANC NMAT PRC SETC  
8067.4 TECO PCNF GMPS NMAT PRC SETC  
7061.31 CLSD PCNF GMPS MANC NMAT PRC SETC  
6524.19 CLSD PCNF GMPS MANC NMAT PRC SETC  
5798.02 CLSD PCNF MANC NMAT PRC SETC  
3116.28 CLSD PCNF GMPS MANC NMAT PRC SETC  
945.71 CLSD PCNF GMPS NMAT PRC SETC  
579.85 CLSD PCNF NMAT PRC SETC  
330.39 CLSD PCNF GMPS NMAT PRC SETC  
311.22 CLSD PCNF GMPS NMAT PRC SETC  
86.29 TECO PCNF GMPS NMAT PRC SETC

3602.24 CLSD PCNF GMPS NMAT PRC SETC  
3123.56 CLSD PCNF GMPS MANC NMAT PRC SETC  
1014.35 CLSD PCNF GMPS MANC NMAT PRC SETC  
862.99 CLSD PCNF MANC NMAT PRC SETC  
711.07 CLSD PCNF GMPS MANC NMAT PRC SETC  
676.29 CLSD PCNF NMAT PRC SETC  
629.5 CLSD PCNF NMAT PRC SETC  
406.41 CLSD PCNF GMPS MANC NMAT PRC SETC  
361.9 CLSD PCNF MANC NMAT PRC SETC  
267.85 CLSD PCNF GMPS NMAT PRC SETC  
236.47 CLSD PCNF MANC NMAT PRC SETC  
182.87 CLSD PCNF MANC NMAT PRC SETC  
146.14 CLSD PCNF MANC NMAT PRC SETC  
0 CLSD PCNF GMPS NMAT PRC SETC

\$ 73,470.87



\$ 12,221.64  
\$ 190,158.96  
\$ 5,647.08  
\$ 281,498.55

Total act.costs System status

**2,836,288.54**

388,809.65 CLSD CNF ESTC GMPS MANC NMAT PRC SETC  
198,342.95 CLSD PCNF GMPS MANC NMAT PRC SETC  
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143.58 CLSD PCNF NMAT PRC SETC  
143.31 CLSD PCNF NMAT PRC SETC  
142.53 CLSD PCNF MANC NMAT PRC SETC  
141.18 CLSD PCNF MANC NMAT PRC SETC  
137.94 CLSD PCNF NMAT PRC SETC  
137.49 CLSD PCNF NMAT PRC SETC  
137.49 CLSD PCNF NMAT PRC SETC

119.48 CLSD GMPS NMAT PRC SETC  
112.33 CLSD GMPS MANC NMAT PRC SETC  
87.17 CLSD GMPS NMAT PRC SETC  
86.29 TECO PCNF GMPS NMAT PRC SETC  
73.06 CLSD PCNF GMPS MANC NMAT PRC SETC  
72.43 CLSD PCNF NMAT PRC SETC  
71.81 CLSD PCNF MANC NMAT PRC SETC  
71.59 CLSD PCNF NMAT PRC SETC  
34.82 CLSD GMPS NMAT PRC SETC  
34.11 CLSD GMPS NMAT PRC SETC  
31.22 CLSD PCNF GMPS NMAT PRC SETC  
0.00 CLSD CNF NMAT PRC SETC  
0.00 CLSD CNF MANC NMAT PRC SETC  
0.00 CLSD PCNF NMAT PRC SETC  
0.00 CLSD PCNF NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC  
0.00 CLSD PCNF NMAT PRC SETC  
0.00 TECO CNF MANC NMAT PRC SETC  
0 CLSD PCNF GMPS NMAT PRC SETC  
0 CLSD PCNF GMPS MANC NMAT PRC SETC  
0.00 CLSD PCNF NMAT PRC SETC  
0.00 CLSD PCNF MANC NMAT PRC SETC

3. Do not include MAT Code 4FC, 4FL for scheduled outage work.







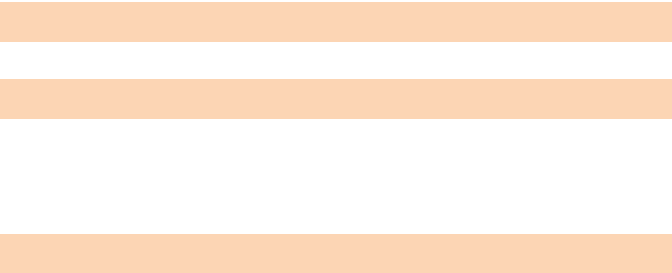






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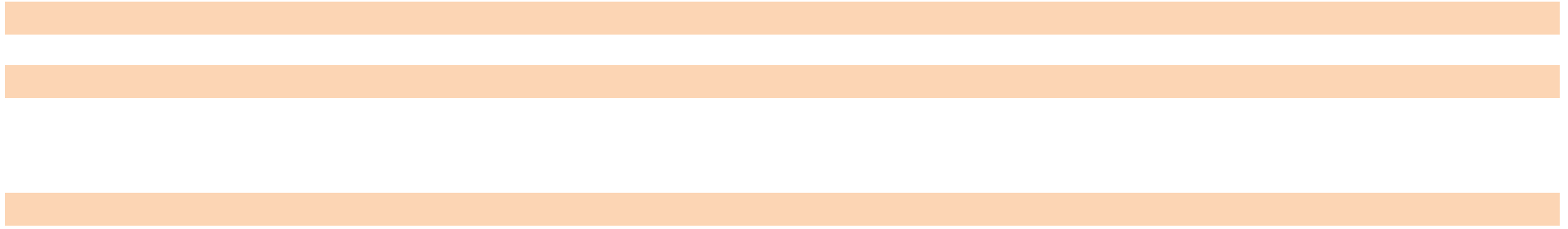










































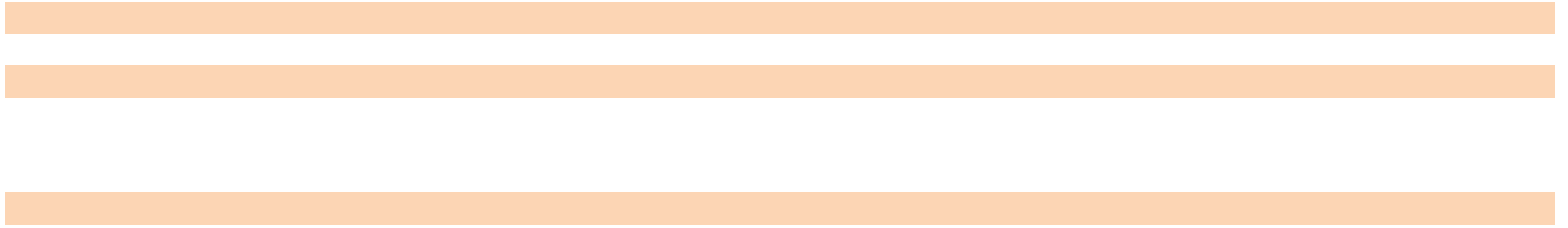








































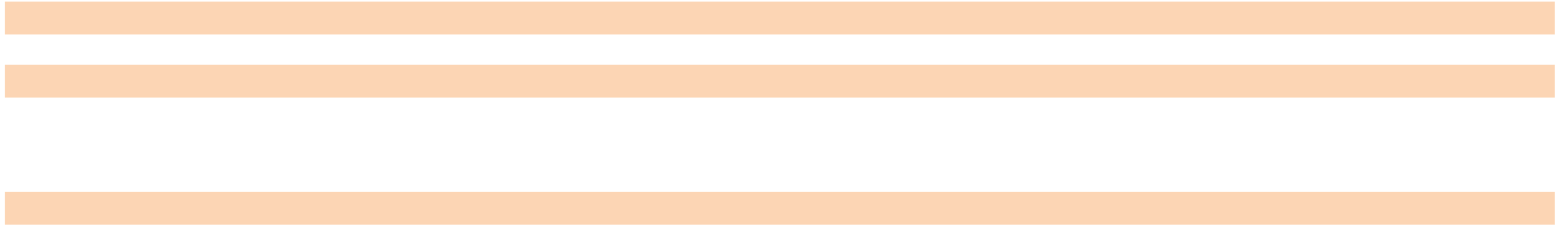








































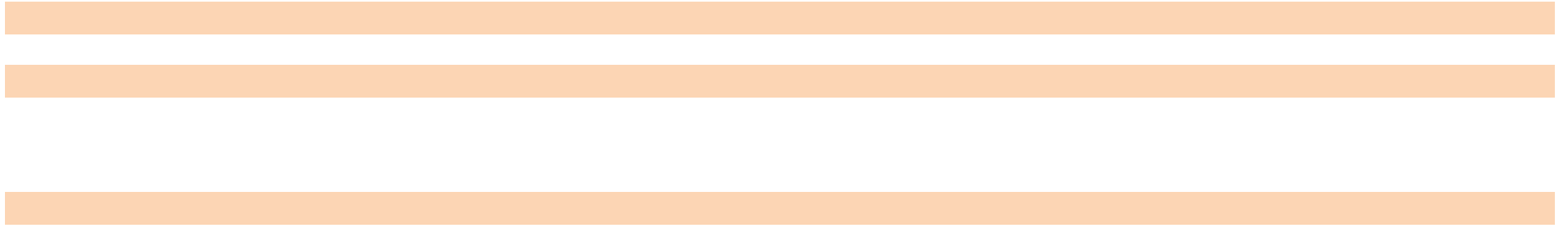








































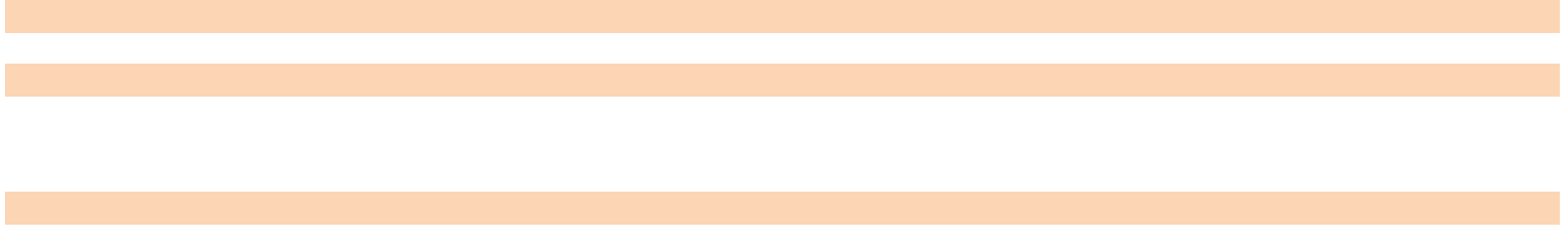










































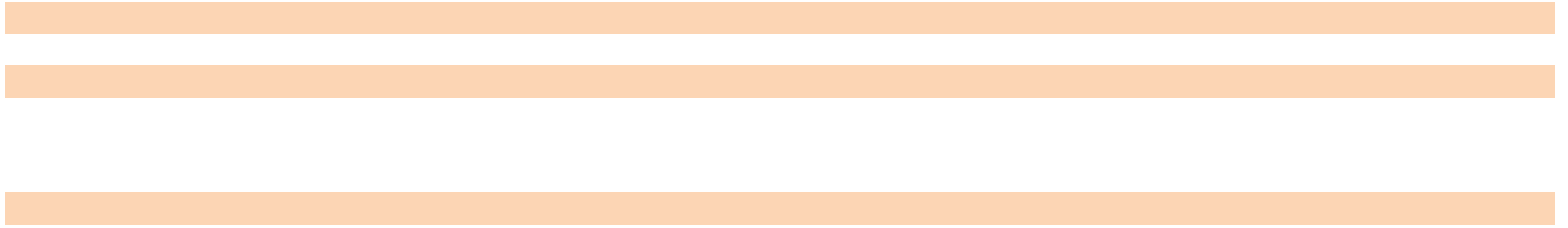








































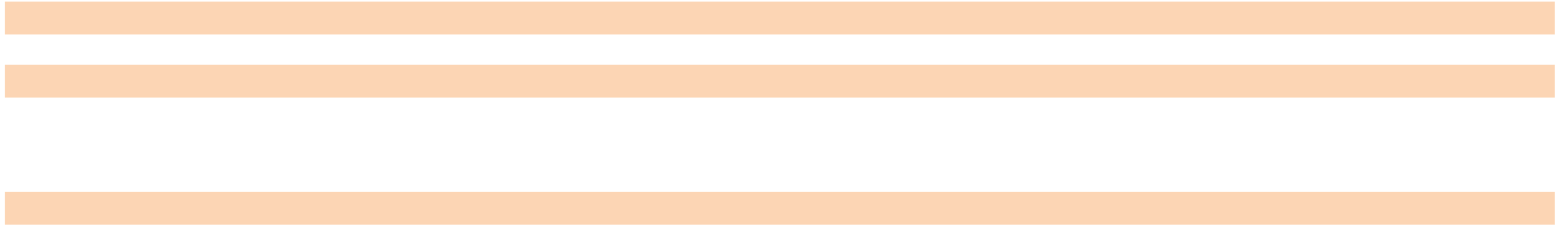








































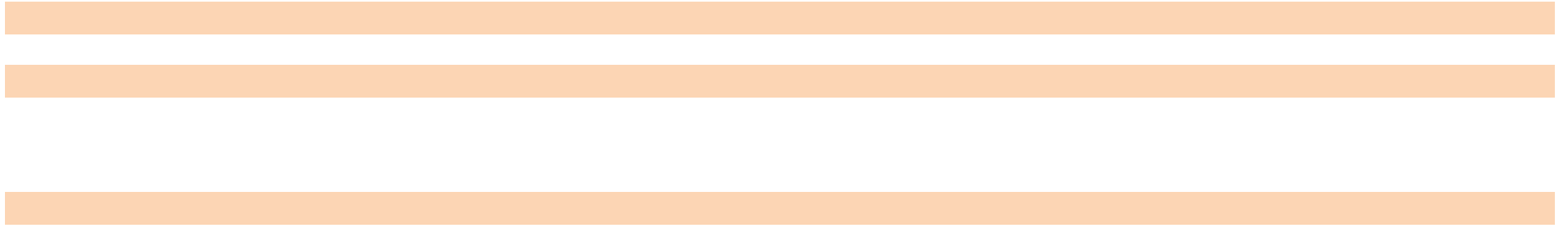








































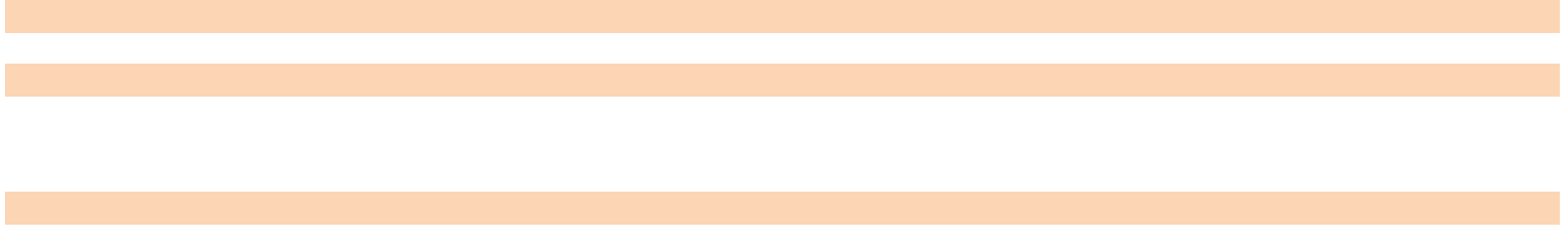










































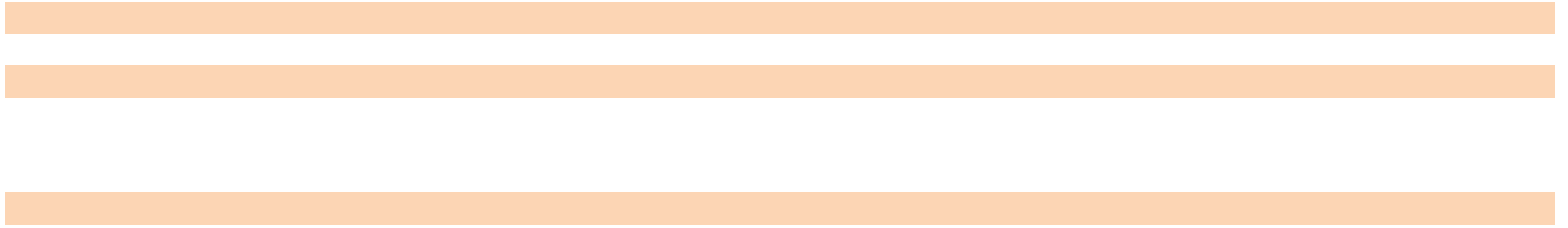








































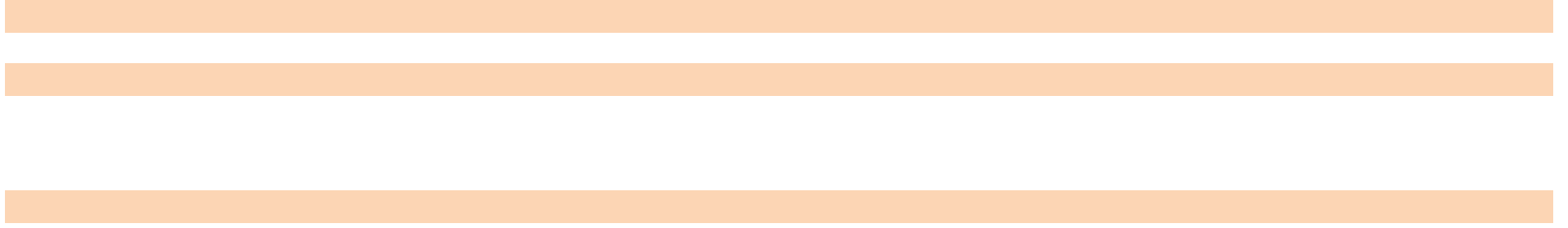








































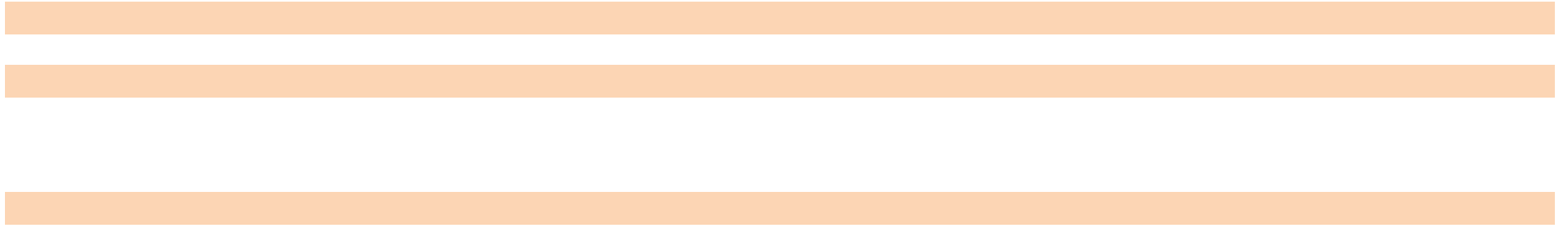


















































































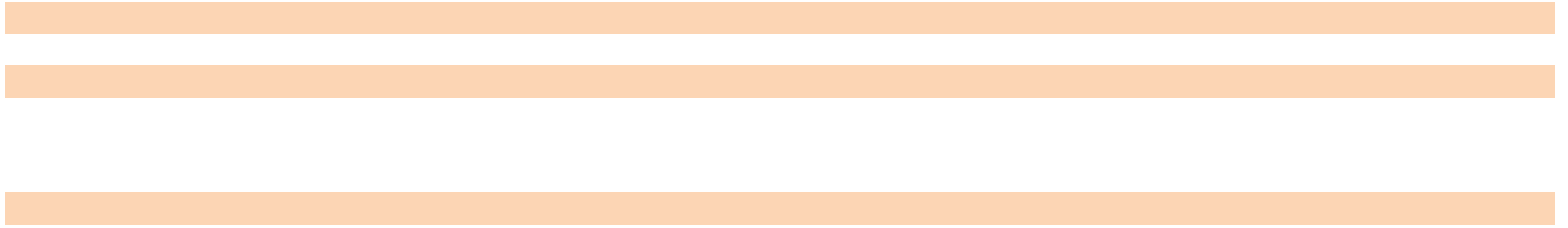








































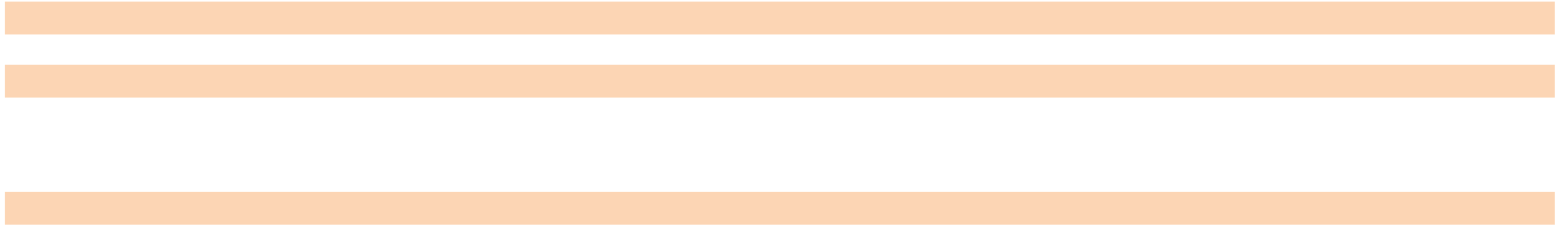








































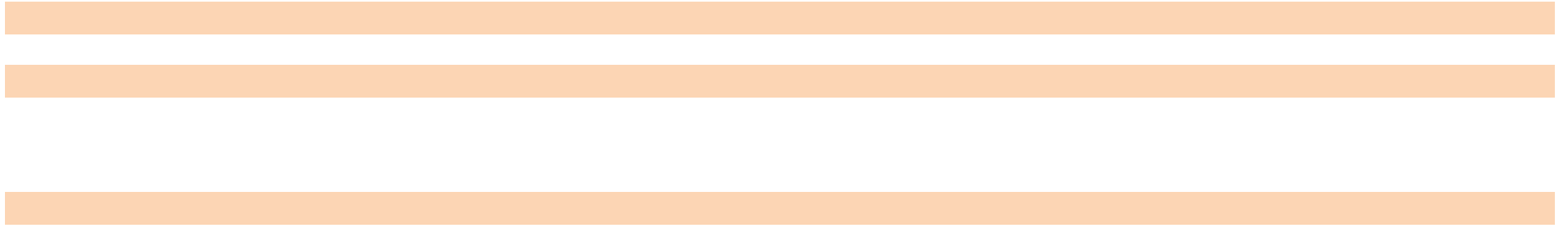














































































Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Selected Units:  
GOLD1

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	164	164	164	164	164	164	164	164	164	164	164	164	
Net Dep. Capacity	164	164	164	164	164	164	164	164	164	164	164	164	
Net Gen (mwh)	63638	76264	82971	31598	31680	37615	94133	111235	105844	94300	112361	121754	963393
Gross Gen (mwh)	63638	76264	82971	31598	31680	37615	94133	111235	105844	94300	112361	121754	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	10126.49	10355.24	10677.26	11734.92	11459.73	11043.79	10830.92	10652.73	10379.11	10303.12	10308.21	10221.17	
Gross Ht Rt(btu/kwh)	10126.49	10355.24	10677.26	11734.92	11459.73	11043.79	10830.92	10652.73	10379.11	10303.12	10308.21	10221.17	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	728.58	672	731	720	455.63	475	742.87	744	720	595.78	713.6	744	8042.46
Service Hours	421.6	540.1	586.6	302	322.63	315	726.27	744	720	595.78	713.6	744	6731.58
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	3	4	2	8	11	8	2	0	0	3	3	0	
Attempted Starts	3	4	2	8	11	8	2	0	0	3	3	0	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	97.93	100	98.38	100	61.24	65.97	99.85	100	100	80.08	98.97	100	
Net Capacity Factor	52.16	69.2	68.09	26.76	25.96	31.86	77.15	91.16	89.64	77.28	95.02	99.79	
Generation Use Factor	53.26	69.2	69.21	26.76	42.4	48.29	77.27	91.16	89.64	96.51	96.01	99.79	
Eq. Forced Out. Rate	0	0	0	0	23.15	0	0.16	0	0	0	1.03	0	
Availability Factor	97.93	100	98.38	100	61.24	65.97	99.85	100	100	80.08	98.97	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	18.06	0	0.16	0	0	0	1.03	0	
MMBTUs (x1000)	644.43	789.73	885.9	370.8	363.04	415.41	1019.55	1184.96	1098.57	971.58	1158.24	1244.47	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	625660	766730	860100	360000	352470	405280	994680	1128530	1030550	911430	1086530	1187470	
Gas-Average HHV	1030	1030	1030	1030	1030	1025	1025	1050	1066	1066	1066	1048	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	164	164	164	164	164	164	164	164	164	164	164	164	
Net Dep. Capacity	164	164	164	164	164	164	164	164	164	164	164	164	
Net Gen (mwh)	111252	92426	14005	1523	0	7397	69879	98051	103978	80714	52940	29223	661388
Gross Gen (mwh)	111252	92426	14005	1523	0	7397	69879	98051	103978	80977.47	54206	30143	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	263.47	1266	920	
Net Ht Rt(btu/kwh)	10280.38	10503.06	11228.5	12102.04	0	12279.49	11306.8	11000.34	10941.64	11594.65	10937.05	11347.62	

Gross Ht Rt(btu/kwh)	10280.38	10503.06	11228.5	12102.04	0	12279.49	11306.8	11000.34	10941.64	11556.93	10681.61	11001.28	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	740.7	672	743	552.02	0	176.23	678.93	732.48	720	618.17	705.92	635.07	6974.52
Service Hours	687.38	612.13	118.75	16.08	0	86.6	578.13	707.83	720	618.17	412.2	247.08	4804.35
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	3	1	3	1	0	7	4	4	0	2	4	5	
Attempted Starts	3	1	3	1	0	7	4	4	0	2	4	6	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	99.56	100	100	76.67	0	24.48	91.25	98.45	100	83.09	97.91	85.36	
Net Capacity Factor	91.18	83.87	11.49	1.29	0	6.26	57.27	80.36	88.06	66.15	44.77	23.95	
Generation Use Factor	91.58	83.87	11.49	1.68	0	25.59	62.76	81.62	88.06	79.62	45.73	28.06	
Eq. Forced Out. Rate	0.48	0	0	0	0	56.34	0	0	0	0	3.29	1.96	
Availability Factor	99.56	100	100	76.67	0	24.48	91.25	98.45	100	83.09	97.91	85.36	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	83.33	
EFORD(%)	0.47	0	0	0	0	42.16	0	0	0	0	3.11	1.87	
MMBTUs (x1000)	1143.71	970.76	157.26	18.43	0	90.83	790.11	1078.59	1137.69	935.85	579.01	331.61	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	1114730	948930	153870	18070	0	86920	760450	1045150	1108860	908593	562143	321953	
Gas-Average HHV	1026	1023	1022	1020	0	1045	1039	1032	1026	1030	1030	1030	
Puget Sound Energy Rollup Report for Selected Units (Inc. OMC)	Operating Report Rollup												
	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	164	164	164	164	164	164	164	164	164	164	164	164	
Net Dep. Capacity	164	164	164	164	164	164	164	164	164	164	164	164	
Net Gen (mwh)	82218	26763	69738	86288	35010	97195	84022	92736	101207	84815	101285	98828	960105
Gross Gen (mwh)	82218	26763	69738	86288	35010	97195	84022	92736	101207	84815	101285	98828	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	10392.75	10862.82	10560.02	10368.02	10666.23	10745.58	10855.12	10940.64	11330.15	10380.89	10280.35	10509.41	
Gross Ht Rt(btu/kwh)	10392.75	10862.82	10560.02	10368.02	10666.23	10745.58	10855.12	10940.64	11330.15	10380.89	10280.35	10509.41	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	743	716.13	381.68	720	744	742.03	720	596.9	716.02	727.33	8223.09
Service Hours	597.93	230.3	540.72	643.63	273.1	692.03	634.93	708.3	720	596.9	682.59	717.4	7037.83
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	3	5	3	3	3	1	1	2	0	1	2	1	
Attempted Starts	3	5	3	3	3	1	1	2	0	1	2	1	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	100	99.46	51.3	100	100	99.74	100	80.23	99.31	97.76	
Net Capacity Factor	67.38	24.28	57.23	73.08	28.69	82.31	68.86	76	85.71	69.51	85.66	81	
Generation Use Factor	67.38	24.28	57.23	73.47	55.93	82.31	68.86	76.2	85.71	86.64	86.25	82.85	
Eq. Forced Out. Rate	0	0	0	0.6	0.18	0	0	0.28	0	0	0	0	



Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	0
Puget Sound Energy Rollup Report for Selected Units (Inc. OMC)	Operating Report Rollup												
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	114	114	114	114	114	114	114	114	114	114	114	114	
Net Dep. Capacity	114	114	114	114	114	114	114	114	114	114	114	114	
Net Gen (mwh)	54455	46174	7448	773	0	3986	41550	56860	60567	46319	28055	15618	361805
Gross Gen (mwh)	54455	46174	7448	773	0	3986	41550	56860	60567	46470.95	28726	16110	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	151.95	671	492	
Net Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Gross Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	738.9	672	743	552.02	0	166.93	678.88	730.72	720	613.38	703.8	633.97	6953.6
Service Hours	680.57	608.77	107.9	12.08	0	62.75	440.8	700.97	720	613.38	402.07	232.12	4581.41
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	3	1	3	1	0	5	4	4	0	2	4	5	
Attempted Starts	3	1	3	1	0	5	4	4	0	2	4	5	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	99.31	100	100	76.67	0	23.19	91.25	98.21	100	82.44	97.61	85.21	
Net Capacity Factor	64.2	60.27	8.79	0.94	0	4.86	48.99	67.04	73.79	54.61	34.13	18.41	
Generation Use Factor	64.65	60.27	8.79	1.23	0	20.95	53.69	68.26	73.79	66.24	34.97	21.61	
Eq. Forced Out. Rate	0.74	0	0	0	0	65.86	0	0	0	0	3.85	0.99	
Availability Factor	99.31	100	100	76.67	0	23.19	91.25	98.21	100	82.44	97.61	85.21	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0.73	0	0	0	0	46.33	0	0	0	0	3.6	0.94	
MMBTUs (x1000)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Puget Sound Energy Rollup Report for Selected Units (Inc. OMC)	Operating Report Rollup												
	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	114	114	114	114	114	114	114	114	114	114	114	114	
Net Dep. Capacity	114	114	114	114	114	114	114	114	114	114	114	114	
Net Gen (mwh)	44106	14978	39316	47399	19695	55211	48092	53813	57839	49015	55240	53857	538561

Gross Gen (mwh)	44106	14978	39316	47399	19695	55211	48092	53813	57839	49015	55240	53857	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	907.94	645.2	426.72	
Gross Ht Rt(btu/kwh)	0	0	0	0	0	0	0	0	0	907.94	645.2	426.72	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	743	715.65	380.62	719.82	744	741.13	720	593.38	715.15	727.28	8216.03
Service Hours	591.2	217.05	534.95	637.37	264.4	690.14	631.6	705.58	720	593.38	679.38	715.1	6980.15
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	3	5	3	3	3	2	1	2	0	1	2	1	
Attempted Starts	3	5	3	3	3	2	1	2	0	1	2	1	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	100	99.4	51.16	99.97	100	99.61	100	79.76	99.19	97.55	
Net Capacity Factor	52	19.55	46.42	57.75	23.22	67.26	56.7	63.45	70.47	57.79	67.21	63.5	
Generation Use Factor	52	19.55	46.42	58.1	45.39	67.28	56.7	63.69	70.47	72.46	67.76	65.09	
Eq. Forced Out. Rate	0	0	0	0.68	0.58	0.03	0	0.4	0	0	0	0.21	
Availability Factor	100	100	100	99.4	51.16	99.97	100	99.61	100	79.76	99.19	97.75	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0.67	0.57	0.03	0	0.4	0	0	0	0.21	
MMBTUs (x1000)	0	0	0	0	0	0	0	0	0	44.5	35.64	22.98	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	42832	34336	22119	
Gas-Average HHV	0	0	0	0	0	0	0	0	0	1039	1038	1039	

net generation 3990951  
net service hours 36778.4  
net available hours 46451.57  
capacity 0.791757953

net CTG generation 2584886



Scheduled Outage Work 2013 thru 2015

PSE definition: Variable O&M costs UOM is \$/MWh and consist of corrective maintenance (repairs), consumables such as ammonia, water, chemicals, etc. **Amx** Regulatory work is fixed and is not included. Inspection work to assess equipment condition is not included.

Background: IW39 - FTL = ENR-E-THRM-XXX, sched start date three year MA, backward looking. Notification is not null. Actual costs >\$0. Historical and Completed orders only. Maintenance performed on admin bldg and grounds are not included. Sorted by actual costs from oldest to newest. Review MAT code "GEN" to find VM. Using PowerGads net actual generation, NAG. Do not include MAT Code 4FC, 4FL for scheduled outage work.

WBS Element	Chemicals, consumables, emissions control, compliance, water		Overall Result
	Fiscal year	Fiscal year/period	
			Actual
			\$
S.01236.02	GLD Demin Chemicals		529,194
103443	NORTHSTAR CHEMICAL INC		430,007
105379	BANK OF AMERICA		142
126212	NALCO COMPANY		100,540
#	Not assigned		-1,496
S.01236.03	GLD HRSG Chemicals		29,798
105379	BANK OF AMERICA		133
126212	NALCO COMPANY		29,665
#	Not assigned		-9
S.01236.04	GLD Cooling Tower Chemicals		73,811
103443	NORTHSTAR CHEMICAL INC		23,077
126212	NALCO COMPANY		50,734
#	Not assigned		-9
S.01236.05	GLD Emissions Chemicals		242,881
103443	NORTHSTAR CHEMICAL INC		206,318
105379	BANK OF AMERICA		17,047
125947	AIR LIQUIDE AMERICA SPECIALTY GASES		19,553
#	Not assigned		-37
S.01236.06	GLD Steam Power & Water		4,429,597
105379	BANK OF AMERICA		138,455
118862	KLICKITAT PUD		3,896,894
124191	CITY OF GOLDENDALE		268,415
#	Not assigned		124,533
S.01236.08	GLD Consumables		259,883
105379	BANK OF AMERICA		196,451
112533	KD CANOPY, INC.		644
121022	MSC INDUSTRIAL SUPPLY CO		18,835
124034	MSC INDUSTRIAL SUPPLY CO		1
124402	OXARC INC		72,717
125553	CARSON OIL COMPANY INC		361
125554	CARSON OIL COMPANY INC		28,498
125947	AIR LIQUIDE AMERICA SPECIALTY GASES		8,838
132743	INDUSTRIAL SCIENTIFIC CORPORATION		439
#	Not assigned		24,099
			<b>5,564,863</b>

Variable Operations Costs

total cost, \$	\$5,564,863.19	GLD service agreement	\$2,674,439.67
Net Actual MW, MWhr	3,990,951.00		
\$/MWhr	<b>\$1.39</b>		

Variable Maintenance Costs

\$/MWhr	<b>\$1.11</b>
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Major Maintenance Adder per CAISO MMA

\$/Run Hour	<b>\$784.58</b>
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Order	Description	Functional Loc.	Notification	MaintActivType	Revision	Equipment	Description	Sched. start	Total act.costs	System status	
553009825	MT-RH-MG-CT COMPARTMENT ROOF ACCESS LAD	ENR-E-THRM-GLD-CTG1	400009073	4PC				01/02/2013		CLSD PCNF MANC NMAT PPRT PRC SETC	21,304.63
552006122	MT-RH-REINSTALL ACID SUMP PUMP	ENR-E-THRM-GLD-BOP1-WTRT	400014593	4CB	MOC PCKG	11483725	PMP ASSY SUMP ACID CONTAIN #1 012D233	01/02/2013	2,805.33	CLSD PCNF MANC NMAT PRC SETC	
553018283	REMS HI AND LOW NOX ANALYZER	ENR-E-THRM-GLD-CTG1-EXHS	400014981	4CB		11522341	REMOVE EMISSIONS MONITORING SYSTEM REMS	01/02/2013	550.81	CLSD PCNF GMPS NMAT PRC SETC	
553018285	CTG EXHAUST THERMOCOUPLE #26 FAILED	ENR-E-THRM-GLD-CTG1-EXHS	400014993	4CB		11484699	T/C EXHAUST TEMPERATURE #26 TTXD26	01/02/2013	768.47	CLSD PCNF GMPS NMAT PRC SETC	
512012627	ELEMENT 1 VALVE ACTUATOR BAD	ENR-E-THRM-GLD-HRS1-DUCT	400015002	4CB		11483905	DUCT BURNER CONTROL SYSTEM	01/03/2013	875.17	CLSD PCNF MANC NMAT PRC SETC	
570006243	JGFANS GROUP A OVERLOAD ALARM ON DCS	ENR-E-THRM-GLD-BOP1-XFMR	400015000	4PT		11484453	XFMR GENERATOR STEP UP D16E150	01/03/2013	47.14	CLSD PCNF MANC NMAT PRC SETC	
512012628	MT-RH-SERVICE WATER PUMP #1 BAD MOTOR	ENR-E-THRM-GLD-BOP1-SWTR	400015033	4CB		11486396	PUMP SWTR #1 011D601	01/07/2013	1,547.08	CLSD PCNF NMAT PRC SETC	
513010272	RH-ACC FAN#4 DESSICANT NEEDS REPLACED	ENR-E-THRM-GLD-STG1-ACC1	400014974	4CB		11483977	AIR COOLED CONDENSER 105M200	01/07/2013	195.68	CLSD PCNF GMPS NMAT PRC SETC	
513010260	JG-GSM-APG ISSUES	ENR-E-THRM-GLD-BOP1-CTRL	400014760	4CB		11483657	DISTRIBUTED CONTROL SYSTEM 0171100	01/08/2013	11,506.40	CLSD PCNF GMPS MANC NMAT PRC SETC	
513006729	STG ABNORMAL BEARING OIL TEMP ALARM	ENR-E-THRM-GLD-STG1-CTRL	400011315	4CB		11483999	STEAM TURBINE GENERATOR CONTROL SYSTEM	01/14/2013	398.56	CLSD PCNF CSER MANC NMAT PRC SETC	
513009981	JG-HYBRID COOLING GRAPHIC	ENR-E-THRM-GLD-BOP1-CTRL	400014352	4CB		11483657	DISTRIBUTED CONTROL SYSTEM 0171100	01/14/2013	88.55	CLSD PCNF CSER MANC NMAT PRC SETC	
553017673	LOAD TUNNEL T/C	ENR-E-THRM-GLD-CTG1-BLWR	400014531	4CB		11483739	COOLING AND SEAL AIR SYSTEM	01/14/2013	177.14	CLSD PCNF CSER MANC NMAT PRC SETC	
553018022	ALM TROUBLE L630T WHEN COMING OFF GEAR	ENR-E-THRM-GLD-CTG1-LUBE	400014691	4CB		11483856	LUBE OIL PRESS INSTRUMENTATION	01/14/2013	221.43	CLSD PCNF CSER MANC NMAT PRC SETC	
513010263	ADD LOGIC FOR STG L/O HEATER START	ENR-E-THRM-GLD-STG1-LUBE	400014804	4CB		11487157	HTR OIL STG LUBEOIL #1 104E201	01/14/2013	398.56	CLSD PCNF MANC NMAT PRC SETC	
513010433	MT-RH-REPLACE AUX BLEACH PUMP.	ENR-E-THRM-GLD-BOP1-ACW1	400015072	4CB		11484082	PUMP ASSY AUX BIOCIDE INJ #1 114D193	01/14/2013	117.50	CLSD PCNF GMPS NMAT PRC SETC	
553018393	JG-EXHAUST THERMOCOUPLE IS FAILING	ENR-E-THRM-GLD-CTG1-EXHS	400015064	4CB		11484699	T/C EXHAUST TEMPERATURE #26 TTXD26	01/14/2013	792.12	CLSD PCNF GMPS MANC NMAT PRC SETC	
553018461	LEAD DIFF COMPT FAN WONT STAY RUNNING	ENR-E-THRM-GLD-CTG1-BLWR	400015091	4CB		11483741	FAN ASSY COOL AIR DIFF AREA 88BD1	01/16/2013	47.32	CLSD PCNF NMAT PRC SETC	
513010393	JN-REPLACE DESSICANT ON ACC FAN #1	ENR-E-THRM-GLD-STG1-ACC1	400015120	4CB		11485735	ACC CELL #1	01/17/2013	208.45	CLSD GMPS NMAT PRC SETC	
511007082	MT-WOMEN'S ROOM TOILET FLUSH VALVE LEAK	ENR-E-THRM-GLD-FACL-BLDG	400014962	4CB		11483873	ADMINWAREHOUSE BLDG	01/21/2013	0.00	CLSD PCNF MANC NMAT PRC SETC	
553018228	AB-INSTALL NEW COOLING FAN ON COM PC	ENR-E-THRM-GLD-CTG1-CTRL	400014898	4CB		100608	CTG CDM SYSTEM	01/22/2013	236.55	CLSD PCNF MANC NMAT PRC SETC	
512012630	MT-STIM LEAK @ TEST POINT WEST STG V1753	ENR-E-THRM-GLD-HRS1-HPST	400015001	4CB		11483921	HP STEAM SYSTEM PIPING ( >90 PSI)	01/22/2013	182.93	CLSD PCNF NMAT PRC SETC	
553018516	JG-CALIBRATE LOCAL DP GAUGE INLET FILTE	ENR-E-THRM-GLD-CTG1-INTK	400015148	4CB		11483846	INTAKE PRESSURE INSTRUMENTATION	01/22/2013	614.97	CLSD PCNF NMAT PRC SETC	
512012777	RH-MT-DE-REPLACE CORROSION INHIBITOR TA	ENR-E-THRM-GLD-BOP1-SWTR	400015177	4CB		102528	SERVICE WATER CORROSION INHIBITOR TANK	01/24/2013	1,554.94	CLSD PCNF NMAT PRC SETC	
553018488	JG-CTG INLET AIR DP INSTRUMENTS AND ALA	ENR-E-THRM-GLD-CTG1-INTK	400015192	4CB	OUT SHRT	11483846	INTAKE PRESSURE INSTRUMENTATION	01/24/2013	141.92	CLSD PCNF NMAT PRC SETC	
513009811	JG-(SO) AIR EJECTOR STEAM SUPPLY STRAIN	ENR-E-THRM-GLD-STG1-COND	400013528	4CB	OUT SHRT	11483985	AIR EJECTOR SKID 105M300	01/28/2013	805.65	CLSD PCNF MANC NMAT PRC SETC	
512012523	JG-(SO) DCS/DUCT BURNER POINTNAMES MISM	ENR-E-THRM-GLD-HRS1-DUCT	400014613	4CB		11483905	DUCT BURNER CONTROL SYSTEM	01/28/2013	1,376.43	CLSD PCNF MANC NMAT PRC SETC	
553018178	JG-CONTROL ROOM HMI- GRAPHIC CHANGE	ENR-E-THRM-GLD-CTG1-CTRL	400014874	4PC		100701	CTG MK VI TRB CONTROL PANEL	01/28/2013		CLSD PCNF MANC NMAT PRC SETC	221.43
512012629	SBA FLOW METER LEAK	ENR-E-THRM-GLD-BOP1-WTRT	400014972	4CB		78087	XMTR FLOW STRNG BASE ANION MBED FIT037	01/28/2013	94.61	CLSD PCNF MANC NMAT PRC SETC	
514008289	EMERGENCY EXIT LIGHTS NOT WORKING	ENR-E-THRM-GLD-FACL-BLDG	400015008	4PF	SAFETY	11485300	POWER BLDG EMER LTS	01/28/2013		CLSD PCNF MANC NMAT PRC SETC	756.90
512012823	CW-IP POI CHECK VALVE STUCK CLOSED	ENR-E-THRM-GLD-HRS1-CHEM	400015122	4CB		11485570	VLV HP DRUM PO4 INJECT CHECK VALVE V843	01/28/2013	515.79	CLSD PCNF MANC NMAT PRC SETC	
512012824	MT-RH-HP PO4 PUMP #2 CHECK VALVE STUCK	ENR-E-THRM-GLD-HRS1-CHEM	400015137	4CB		11483893	PUMP ASSY HRSG HP PO4 INJ #2 114D102	01/28/2013	182.93	CLSD PCNF NMAT PRC SETC	
512012827	CW-PROBE NEEDS CALIB. 60 LO FROM BENCH	ENR-E-THRM-GLD-BOP1-WTRT	400015007	4CB		11484452	OUTFALL PH MONITOR 1A1T1249	01/28/2013	709.16	CLSD GMPS MANC NMAT PRC SETC	
552006239	AB-PANEL C. Z3 BATT CHARGER CIRCUIT FAI	ENR-E-THRM-GLD-CTG1-FIRE	400015149	4CB		11483794	FIRE PROTECTION SYS INSTRUMENTATION	01/28/2013	189.23	CLSD PCNF MANC NMAT PRC SETC	
553019487	MT-RH-REMOVE DRAIN PLUGS IN CLEAN SIDE	ENR-E-THRM-GLD-CTG1-INTK	400015167	4CB		11483944	FILTER INLET AIR	01/28/2013	1,143.34	CLSD PCNF MANC NMAT PRC SETC	
513010452	MT-RH-OIL CHANGE CLOW PUMP #1 - HIGH VI	ENR-E-THRM-GLD-BOP1-CLCW	400015216	4CB		11483651	PUMP ASSY CLOSED LOOP COOL #1 013D301	01/31/2013	2,636.95	CLSD PCNF CSER GMPS MANC NMAT PRC SETC	
512011942	3j(SO) TWIP VALVE POS FEEDBACK 12SC293	ENR-E-THRM-GLD-HRS1-HPST	400013988	4CB	OUT SHRT	11486678	VLV HP DRIP LEG 1LCV2930	02/04/2013	232.99	CLSD PCNF MANC NMAT PRC SETC	
512011943	3j(SO) TWIP VALVE POS FEEDBACK 12SC293	ENR-E-THRM-GLD-HRS1-HPST	400013987	4CB	OUT SHRT	11486684	VLV HP DRIP LEG 1LCV2935	02/04/2013	232.99	CLSD PCNF MANC NMAT PRC SETC	
553018223	ACC. COMPARTMENT FAN TROUBLE	ENR-E-THRM-GLD-CTG1-BLWR	400014870	4CB		11483750	FAN ASSY COOL AIR LUBEOIL SKID 88BL1	02/04/2013	1,999.85	CLSD PCNF GMPS MANC NMAT PRC SETC	
514008290	AB-PUMP STAYS ON WITH SWITCH OFF	ENR-E-THRM-GLD-FACL-GRND	400015164	4CB		102520	ADMIN BLDG ELECTRICAL VAULT 016E808	02/04/2013	0.00	CLSD PCNF NMAT PRC SETC	

















553027357 THERMOCOUPLE #14 FAILURE	ENR-E-THRM-GLD-CTG1-EXHS	400022342	4CB	OUT SHRT	11484687	T/C EXHAUST TEMPERATURE #14 TTXD14	11/16/2015	1,011.51	TECO PCNF GMPS MANC NMAT PRC SETC	
553027455 CEMS TEMP BATH FROZE UP	ENR-E-THRM-GLD-HRS1-CEMS	400022449	4CB		11483888	CEMS ANALYZER INSTRUMENTATION	11/16/2015	735.83	TECO CNF GMPS NMAT PRC SETC	
553026803 TEMP FLUCTUATES ON DILUTION WATER TANK	ENR-E-THRM-GLD-BOP1-WTRT	400021717	4CA		11484390	CAUSTIC DILUTION WATER TANK 012M104	11/23/2015	417.30	CLSD PCNF MANC NMAT PRC SETC	
552007950 REBUILD GAS CHROM. SOLENOIDS	ENR-E-THRM-GLD-BOP1-FGAS	400022508	4CB		11484184	FUEL GAS CHROMATOGRAPH 0011401	11/25/2015	1,286.09	TECO PCNF MANC NMAT PRC SETC	
512016525 BOTH LP P04 PUMPS NOT PUMPING	ENR-E-THRM-GLD-HRS1-CHEM	400022650	4CB		11483896	PUMP ASSY HRSG LP P04 INJ #1 114D105	12/02/2015	2,388.95	TECO GMPS NMAT PRC SETC	
553027380 88TK2 BLOWER MOTOR FAILURE	ENR-E-THRM-GLD-CTG1-BLWR	400022335	4CB		11483746	BLWR ASSY TRB SHELL & EXH FRAME 88TK2	12/07/2015	12,129.33	TECO PCNF GMPS MANC NMAT PRC SETC	
514010245 AIR COMPRESSOR #1 FAILED	ENR-E-THRM-GLD-BOP1-CAIR	400022346	4CB		11483641	COMPRESSOR ASSY AIR #1 015D101	12/14/2015	2,884.27	TECO PCNF GMPS MANC NMAT PRC SETC	
552007945 REPAIR GAS CHROM. COMMUNICATION ISSUES	ENR-E-THRM-GLD-BOP1-FGAS	400022437	4CB		11484184	FUEL GAS CHROMATOGRAPH 0011401	12/14/2015	183.75	TECO PCNF MANC NMAT PRC SETC	
514010304 AIR COMPRESSOR OIL LEAK ON BOTH FILTERS	ENR-E-THRM-GLD-BOP1-CAIR	400022674	4CB		11484098	COMP AIR #2 015D102	12/14/2015	268.57	TECO PCNF NMAT PRC SETC	
512016603 RESIN SAMPLES- BIO?	ENR-E-THRM-GLD-BOP1-WTRT	400022773	4CB		11484394	SAC VESSEL #1 011M271	12/16/2015		TECO PCNF NMAT PRC SETC	850.50
511008182 INSTALL OUTSIDE OUTLETS ON EAST OF BLD	ENR-E-THRM-GLD-FACL-BLDG	400019625	4CB		11483873	ADMINWAREHOUSE BLDG	12/21/2015		TECO PCNF MANC NMAT PRC SETC	0.00
511008480 ORGANIZE AND CLEAN AREA LUBE OIL STORAGE	ENR-E-THRM-GLD-FACL-BLDG	400021660	4CB		11483879	POWER BLDG & ENCLOSURES	12/21/2015		TECO PCNF MANC NMAT PRC SETC	1,585.73
512013488 INVESTIGATE ATTEMPERATOR CONTROL LOGIC	ENR-E-THRM-GLD-HRS1-HPST	400016178	4CB		11485497	HP ATTEMPERATOR 1TD2120	12/28/2015	5,498.06	CLSD PCNF CSER MANC NMAT PRC SETC	
511007991 FIX ALL OUTSIDE LIGHTS AT DOORS & ROADS	ENR-E-THRM-GLD-FACL-GRND	400019256	4CB		11483884	ROADS AND GROUNDS SYSTEM	12/28/2015	0.00	TECO PCNF MANC NMAT PRC SETC	
512016620 REPLACE SOUTH LUBE OIL FILTER ON BFW-P2	ENR-E-THRM-GLD-HRS1-HPFW	400022712	4CB		11483916	PUMP ASSY BOILER FEED WATER #2 106D202	12/28/2015	136.70	TECO PCNF MANC PRC SETC	
514010305 OUTLET TEMP 247F. COMPRESSOR TRIP 248F	ENR-E-THRM-GLD-BOP1-CAIR	400022861	4CB		11484095	COMP AIR #1 015D101	12/28/2015	3,261.79	TECO PCNF CSER GMPS MANC NMAT PRC SETC	
512016622 PUMP WILL NOT RUN BREAKER TRIPPED	ENR-E-THRM-GLD-BOP1-WTRT	400022875	4CB		11487178	MTR PUMP DECARB FWD #1 011D221	12/29/2015	1,369.25	TECO PCNF NMAT PRC SETC	
								<b>1,741,557.77</b>		

Resource ID Goldendale Generating Mandatory

Configuration ID 1x1 Optional

General Plant Information (for validation purposes)

Technology	Response	Comments
Primary Fuel	Combustion_Turbine_and_Combined_Cycle	Gas
Boiler Pressure		
Circulation Design		
Combustion System		
Manufacturer	General_Electric_Frame_CTs	
Model Series	MS7001F	
Operating Speed (RPM)		
Reciprocating Engine Design		
Model	FA	
In Service Date		
Summer Dependable Capacity (MW)	230	

Instructions on the use of the form

- This is a dynamic form that responds to prior entries. To operate properly, it is necessary to be filled out in order from top to bottom and left to right. Therefore, begin by filling in the General Plant Information.
- Color code:
  - Light green: Cells where data is to be provided.
  - Gray: Cells to be left empty. Values in these cells cause improper operation of the form. These cells are normally empty when the form is filled out in the proper order. Delete any values that appear in these cells.
  - Black: These cells do not apply based on the prior information provided in the form. Values in these cells are not used and do not affect the form.
  - Blue: Titles for columns or rows provided to describe the requested information.
  - White: Values supplied by the template.
- Further instruction are embedded as notes that will appear when one moves the mouse over the heading.

Maintenance Cycles

Cycle	Equipment Group	Criteria	Primary Factor	Secondary Factor	Equivalence to Prir	Equivalency Unit	Third Fact	Equivalence to I	Equivalenc	Fourth Fac	Equivalent	Equivalency Units
A	Prime Mover	Single parameter	Operating Hours			per Operating Hours				per Operating Hours		per Operating Hours
B	Prime Mover	Single parameter	Operating Hours			per Operating Hours				per Operating Hours		per Operating Hours
C						per				per		per
D						per				per		per
E						per				per		per
F						per				per		per
G						per				per		per

Scheduling Coordinator Estimates (Scheduling Coordinators have the option of directly providing Major Maintenance Cost Adders here, or instead providing details needed to calculate the cost in the "Maintenance Actions" table below.)

Cycle	\$ per Start until NDA approved	\$ per Run Hour	\$ per MWhr	\$ per Calendar Hr	Cost Basis	References and Comments
A		\$500.00			Maintenance Service Contract	Goldendale CSA
B		\$31.84			Historical Costs (adjust to current year \$)	SAP BI
C						
D						
E	Gas Turbine	\$720.57				
F	Steam Turbine	\$64.02	\$62.61			
G		<b>\$784.58</b>				

Maintenance Actions

Row	Cycle	Scheduled Maintenance Description	Cost	Year	Dollars	Cycle Incremental Requirements							
						15.00	15.00	16.00	16.00	17.00	17.00	18.00	18.00
						Incremental Op	Row Refe	Incremental St	Row Refe	Increment	Row Refe	Increment	Row Reference
1	A	Beginning of Current Cycle											
2	A	Hot Gas Path Inspection	\$ 8,693,568	2016		24,000							\$362.23
3	A	Major Maintenance and Inspection	\$ 25,893,568	2016		48,000							\$539.45
4	A	End of Current Cycle											
5													
6	B	Beginning of Current Cycle											
7	B	Major Overhaul or Replacement	\$ 550,000	2014		24,000							\$22.92
8	B	Major Overhaul or Replacement	\$ 1,905,255	2014		48,000							\$39.69
9	B	End of Current Cycle											

FFH Fee		\$34,587,136
	\$362	\$17,387,136
	\$358	\$17,200,000

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Selected Units:  
MINT1  
Operating Report  
Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	170	170	170	170	170	170	170	170	170	170	170	170	
Net Dep. Capacity	170	170	170	170	170	170	170	170	170	170	170	170	
Net Gen (mwh)	64884	90944.5	105558.1	27271.1	14822	75775.9	105405.9	114052.5	110676.4	115630.3	104542.1	122217	1051780
Gross Gen (mwh)	67711.4	94650	109815.1	28514.8	15525	78981.7	109801.5	118539.8	115061.6	120042.5	108671.2	126950.3	
Station Svc(mwh)	2827.4	3705.5	4257	1243.7	703	3205.8	4395.6	4487.3	4385.2	4412.2	4129.1	4733.3	
Net Ht Rt(btu/kwh)	11051.88	11152.49	11209.76	11436.91	11465.73	11077.04	11104.29	11127.09	10917.42	10863.31	10816.99	10747.16	
Gross Ht Rt(btu/kwh)	10590.39	10715.88	10775.21	10938.08	10946.54	10627.43	10659.76	10705.88	10501.34	10464.02	10405.99	10346.46	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	738.18	672	743	472	239.23	718.85	744	728.17	706.33	709.8	689.75	743.45	7904.76
Service Hours	415.7	593.1	694.1	248	111.2	527.9	716.48	724.93	706.33	709.8	651.5	728.63	6827.67
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	4	2	1	6	9	7	2	2	1	4	1	2	
Attempted Starts	4	2	1	6	10	7	2	2	1	4	1	2	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	99.22	100	100	65.56	32.15	99.84	99.78	97.87	98.1	95.37	95.67	99.93	
Net Capacity Factor	51.3	79.61	83.57	22.28	11.72	61.91	83.34	90.17	90.42	91.42	85.29	96.63	
Generation Use Factor	51.7	79.61	83.57	33.99	36.44	62.01	83.52	92.14	92.17	95.86	89.16	96.7	
Eq. Forced Out. Rate	0.75	0	0	0	29.82	0.22	0.22	0	0	2.56	0	0.08	
Availability Factor	99.22	100	100	65.56	32.15	99.84	100	97.87	98.1	95.4	95.67	99.93	
Starting Reliability	100	100	100	100	90	100	100	100	100	100	100	100	
EFORD(%)	0.73	0	0	0	20.26	0.21	0.22	0	0	2.56	0	0.08	
MMBTUs (x1000)	717.09	1014.26	1183.28	311.9	169.95	839.37	1170.46	1269.07	1208.3	1256.13	1130.83	1313.49	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	699600	989520	1154420	304290	165800	818900	1141910	1238120	1178830	1225490	1103250	1281450	
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	170	170	170	170	170	170	170	170	170	170	170	170	
Net Dep. Capacity	170	170	170	170	170	170	170	170	170	170	170	170	
Net Gen (mwh)	114889.1	107943.8	7359.1	1318.5	14533.9	20895.1	86906.9	113813.4	111036.6	113102.9	64899.1	71757.8	828456.2
Gross Gen (mwh)	119334	112201.7	7658.7	1398.8	15267.9	21881.5	90594.1	118356.8	115399	117467.9	67634.5	74821.2	
Station Svc(mwh)	4444.9	4257.9	299.6	80.3	734	986.4	3687.2	4543.4	4362.4	4365	2735.4	3063.4	
Net Ht Rt(btu/kwh)	10788.68	10794.98	10840.42	12749.34	12097.11	11222.21	11195.67	11176.5	11277.19	11100.35	11019.12	11038.52	
Gross Ht Rt(btu/kwh)	10386.83	10385.32	10416.36	12017.44	11515.55	10716.32	10740.01	10747.46	10850.88	10687.88	10573.47	10586.57	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	546	63.62	733.3	720	744	744	720	744	673	744	7847.92
Service Hours	690.6	672	47.38	12.15	115.12	158.43	596.97	744	714.2	720.9	434.17	488.97	5394.89
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	1	0	0	1	7	8	8	0	1	2	8	4	







Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0

net generating MWhr	4,603,298
net service hours	38,594
net available hours	47943.2

SECRET

NO.	NAME	GRADE	STATUS
1	1.1	1.1	1.1
2	1.2	1.2	1.2
3	1.3	1.3	1.3
4	1.4	1.4	1.4
5	1.5	1.5	1.5
6	1.6	1.6	1.6
7	1.7	1.7	1.7
8	1.8	1.8	1.8
9	1.9	1.9	1.9
10	1.10	1.10	1.10
11	1.11	1.11	1.11
12	1.12	1.12	1.12
13	1.13	1.13	1.13
14	1.14	1.14	1.14
15	1.15	1.15	1.15
16	1.16	1.16	1.16
17	1.17	1.17	1.17
18	1.18	1.18	1.18
19	1.19	1.19	1.19
20	1.20	1.20	1.20
21	1.21	1.21	1.21
22	1.22	1.22	1.22
23	1.23	1.23	1.23
24	1.24	1.24	1.24
25	1.25	1.25	1.25
26	1.26	1.26	1.26
27	1.27	1.27	1.27
28	1.28	1.28	1.28
29	1.29	1.29	1.29
30	1.30	1.30	1.30
31	1.31	1.31	1.31
32	1.32	1.32	1.32
33	1.33	1.33	1.33
34	1.34	1.34	1.34
35	1.35	1.35	1.35
36	1.36	1.36	1.36
37	1.37	1.37	1.37
38	1.38	1.38	1.38
39	1.39	1.39	1.39
40	1.40	1.40	1.40
41	1.41	1.41	1.41
42	1.42	1.42	1.42
43	1.43	1.43	1.43
44	1.44	1.44	1.44
45	1.45	1.45	1.45
46	1.46	1.46	1.46
47	1.47	1.47	1.47
48	1.48	1.48	1.48
49	1.49	1.49	1.49
50	1.50	1.50	1.50
51	1.51	1.51	1.51
52	1.52	1.52	1.52
53	1.53	1.53	1.53
54	1.54	1.54	1.54
55	1.55	1.55	1.55
56	1.56	1.56	1.56
57	1.57	1.57	1.57
58	1.58	1.58	1.58
59	1.59	1.59	1.59
60	1.60	1.60	1.60
61	1.61	1.61	1.61
62	1.62	1.62	1.62
63	1.63	1.63	1.63
64	1.64	1.64	1.64
65	1.65	1.65	1.65
66	1.66	1.66	1.66
67	1.67	1.67	1.67
68	1.68	1.68	1.68
69	1.69	1.69	1.69
70	1.70	1.70	1.70
71	1.71	1.71	1.71
72	1.72	1.72	1.72
73	1.73	1.73	1.73
74	1.74	1.74	1.74
75	1.75	1.75	1.75
76	1.76	1.76	1.76
77	1.77	1.77	1.77
78	1.78	1.78	1.78
79	1.79	1.79	1.79
80	1.80	1.80	1.80
81	1.81	1.81	1.81
82	1.82	1.82	1.82
83	1.83	1.83	1.83
84	1.84	1.84	1.84
85	1.85	1.85	1.85
86	1.86	1.86	1.86
87	1.87	1.87	1.87
88	1.88	1.88	1.88
89	1.89	1.89	1.89
90	1.90	1.90	1.90
91	1.91	1.91	1.91
92	1.92	1.92	1.92
93	1.93	1.93	1.93
94	1.94	1.94	1.94
95	1.95	1.95	1.95
96	1.96	1.96	1.96
97	1.97	1.97	1.97
98	1.98	1.98	1.98
99	1.99	1.99	1.99
100	2.00	2.00	2.00

NO.	NAME	GRADE	STATUS
101	2.01	2.01	2.01
102	2.02	2.02	2.02
103	2.03	2.03	2.03
104	2.04	2.04	2.04
105	2.05	2.05	2.05
106	2.06	2.06	2.06
107	2.07	2.07	2.07
108	2.08	2.08	2.08
109	2.09	2.09	2.09
110	2.10	2.10	2.10
111	2.11	2.11	2.11
112	2.12	2.12	2.12
113	2.13	2.13	2.13
114	2.14	2.14	2.14
115	2.15	2.15	2.15
116	2.16	2.16	2.16
117	2.17	2.17	2.17
118	2.18	2.18	2.18
119	2.19	2.19	2.19
120	2.20	2.20	2.20
121	2.21	2.21	2.21
122	2.22	2.22	2.22
123	2.23	2.23	2.23
124	2.24	2.24	2.24
125	2.25	2.25	2.25
126	2.26	2.26	2.26
127	2.27	2.27	2.27
128	2.28	2.28	2.28
129	2.29	2.29	2.29
130	2.30	2.30	2.30
131	2.31	2.31	2.31
132	2.32	2.32	2.32
133	2.33	2.33	2.33
134	2.34	2.34	2.34
135	2.35	2.35	2.35
136	2.36	2.36	2.36
137	2.37	2.37	2.37
138	2.38	2.38	2.38
139	2.39	2.39	2.39
140	2.40	2.40	2.40
141	2.41	2.41	2.41
142	2.42	2.42	2.42
143	2.43	2.43	2.43
144	2.44	2.44	2.44
145	2.45	2.45	2.45
146	2.46	2.46	2.46
147	2.47	2.47	2.47
148	2.48	2.48	2.48
149	2.49	2.49	2.49
150	2.50	2.50	2.50
151	2.51	2.51	2.51
152	2.52	2.52	2.52
153	2.53	2.53	2.53
154	2.54	2.54	2.54
155	2.55	2.55	2.55
156	2.56	2.56	2.56
157	2.57	2.57	2.57
158	2.58	2.58	2.58
159	2.59	2.59	2.59
160	2.60	2.60	2.60
161	2.61	2.61	2.61
162	2.62	2.62	2.62
163	2.63	2.63	2.63
164	2.64	2.64	2.64
165	2.65	2.65	2.65
166	2.66	2.66	2.66
167	2.67	2.67	2.67
168	2.68	2.68	2.68
169	2.69	2.69	2.69
170	2.70	2.70	2.70
171	2.71	2.71	2.71
172	2.72	2.72	2.72
173	2.73	2.73	2.73
174	2.74	2.74	2.74
175	2.75	2.75	2.75
176	2.76	2.76	2.76
177	2.77	2.77	2.77
178	2.78	2.78	2.78
179	2.79	2.79	2.79
180	2.80	2.80	2.80
181	2.81	2.81	2.81
182	2.82	2.82	2.82
183	2.83	2.83	2.83
184	2.84	2.84	2.84
185	2.85	2.85	2.85
186	2.86	2.86	2.86
187	2.87	2.87	2.87
188	2.88	2.88	2.88
189	2.89	2.89	2.89
190	2.90	2.90	2.90
191	2.91	2.91	2.91
192	2.92	2.92	2.92
193	2.93	2.93	2.93
194	2.94	2.94	2.94
195	2.95	2.95	2.95
196	2.96	2.96	2.96
197	2.97	2.97	2.97
198	2.98	2.98	2.98
199	2.99	2.99	2.99
200	3.00	3.00	3.00







1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000



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Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Selected Units:  
FERN ST

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	77	77	77	77	77	77	77	77	77	77	77	77	
Net Dep. Capacity	77	77	77	77	77	77	77	77	77	77	77	77	
Net Gen (mwh)	13714	9477	20347	5392	109	5058	27732	42888	36129	47220	23338	44064	275468
Gross Gen (mwh)	13714	9477	20347	5392	109	5058	27732	42888	36129	47220	23338	44064	
Station Svc(mwh)	0	0	0	0	0	0	0	0	0	0	0	0	
Net Ht Rt(btu/kwh)	73.6	0	169.84	133.6	19155.96	0	286.11	740.74	438.07	184.83	328.35	81.5	
Gross Ht Rt(btu/kwh)	73.6	0	169.84	133.6	19155.96	0	286.11	740.74	438.07	184.83	328.35	81.5	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	743.68	672	728.5	720	544.15	224	712.75	744	696.02	627.62	463.77	703.95	
Service Hours	231.37	149.67	273.67	103.57	108.43	65.27	499.08	682.5	555.43	592.22	302	557.35	4120.56
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	4	3	3	4	5	5	9	1	4	3	4	4	
Attempted Starts	4	3	3	4	5	5	9	1	4	3	4	4	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	99.96	100	98.05	100	73.14	31.11	95.8	100	96.67	84.36	63.68	94.62	
Net Capacity Factor	23.94	18.32	35.56	9.73	0.19	9.12	48.41	74.86	65.17	82.43	42.04	76.92	
Generation Use Factor	23.95	18.32	36.27	9.73	0.26	29.33	50.53	74.86	67.41	97.71	66.02	81.29	
Eq. Forced Out. Rate	0.14	0	0	0	0	0	0	0	0	0.07	3.59	0	
Availability Factor	99.96	100	98.05	100	73.14	31.11	95.8	100	96.67	84.36	64.32	94.62	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0.14	0	0	0	0	0	0	0	0	0.07	2.93	0	
MMBTUs (x1000)	1.01	0	3.46	0.72	2.09	0	7.93	31.77	15.83	8.73	7.66	3.59	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	980	0	3310	690	2000	0	7600	30430	15160	8360	7340	3440	
Gas-Average HHV	1030	0	1044	1044	1044	0	1044	1044	1044	1044	1044	1044	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup





Net Ht Rt(btu/kwh)	457.6	633.18	323.39	176	261.1	0	687.63	891.94	892.41	1139.29	981.87	491.99	
Gross Ht Rt(btu/kwh)	457.6	633.18	323.39	176	261.1	0	687.63	891.94	892.41	1139.29	981.87	491.99	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	743	720	243.75	0	658.62	744	707.3	587.33	689.25	744	
Service Hours	57.87	84.12	168.55	354.4	231.15	0	658.62	624.13	554.92	458.96	521.07	400.98	4114.77
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	2	1	5	4	1	0	1	3	5	2	6	3	
Attempted Starts	2	1	5	4	1	0	1	3	5	2	6	3	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	100	100	32.76	0	88.52	100	98.24	78.94	95.6	100	
Net Capacity Factor	5.38	8.03	17.23	38.52	26.38	0	82	75.81	75.74	66.65	72.56	47.43	
Generation Use Factor	5.38	8.03	17.23	38.52	80.53	0	92.63	75.81	77.1	84.43	75.9	47.43	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0.02	0	0	0	
Availability Factor	100	100	100	100	32.76	0	88.52	100	98.24	78.94	95.6	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0.02	0	0	0	
MMBTUs (x1000)	1.41	2.63	3.19	3.76	3.95	0	32.3	38.74	37.47	43.5	39.55	13.37	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	1350	2520	3053	3600	3780	0	30940	37106	35892	41667	37884	12806	
Gas-Average HHV	1044	1044	1044	1044	1044	0	1044	1044	1044	1044	1044	1044	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Rollup

Unit Rating	77
Net Dep. Capacity	77
Net Gen (mwh)	793214.4
Gross Gen (mwh)	793466
Station Svc(mwh)	251.6
Net Ht Rt(btu/kwh)	456.98
Gross Ht Rt(btu/kwh)	456.83
Period Hours	26280
Available Hours	22190.17
Service Hours	11765.71
Condensing Hours	0

Actual Starts	125
Attempted Starts	125
Hydro Gen Starts	0
Hydro Pump Starts	0
Eq. Avail. Factor	84.42
Net Capacity Factor	39.2
Generation Use Factor	46.43
Eq. Forced Out. Rate	0.11
Availability Factor	84.44
Starting Reliability	100
EFORD(%)	0.09
MMBTUs (x1000)	362.48
Coal-Burned (tons)	0
Coal-Average HHV	0
Coal-%Ash	0
Coal-%Sulfur	0
Coal-%Moisture	0
#2Oil-Burned(gal)	0
#2Oil-Average HHV	0
#2Oil-%Sulfur	0
Gas-Burned(mcf)	347218
Gas-Average HHV	1043.96

Operating Report Puget Sound Energy

10/2014: Statistics data missing for FERNA (996-360).

Puget Sound Energy Operating Report  
Rollup Report for Selected Units (Inc. OMC) Rollup  
Selected Units:  
FERNA  
Puget Sound Energy Operating Report  
Rollup Report for Selected Units (Inc. OMC) Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	85	85	85	85	85	85	85	85	85	85	85	85	
Net Dep. Capacity	85	85	85	85	85	85	85	85	85	85	85	85	
Net Gen (mwh)	16277	10920	22421	6448	7076	5431	29792	46919	35363	49211	24791	43914	298563
Gross Gen (mwh)	16749	11220	22943	6591	7241	5640	30722	48419	36403	50411	25367	44914	
Station Svc(mwh)	472	300	522	143	165	209	930	1500	1040	1200	576	1000	
Net Ht Rt(btu/kwh)	13292.75	12551	12195	12839	12610.33	12816	12852	12517	12506	12034.9	11937	12160	
Gross Ht Rt(btu/kwh)	12918.15	12215	11918	12560	12322.98	12341	12463	12129	12149	11748.4	11666	11889	

Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	744	672	728.5	720	544.15	224	712.75	744	663.67	627.28	472.23	703.95	
Service Hours	235.9	153.3	277.47	102.1	105.53	68.1	473.75	667.1	518.45	582.93	299.08	562.62	4046.33
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	3	3	3	5	5	5	10	3	6	4	3	4	
Attempted Starts	3	3	3	5	5	5	10	3	6	4	3	4	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	100	98.05	100	73.14	31.11	95.8	100	92.18	84.31	65.5	94.62	
Net Capacity Factor	25.74	19.12	35.5	10.54	11.19	8.87	47.11	74.19	57.78	77.82	40.45	69.44	
Generation Use Factor	25.74	19.12	36.21	10.54	15.3	28.52	49.17	74.19	62.69	92.3	61.76	73.39	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0	0	0	0	
Availability Factor	100	100	98.05	100	73.14	31.11	95.8	100	92.18	84.31	65.5	94.62	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0	0	0	0	
MMBTUs (x1000)	216.37	137.06	273.42	82.79	89.23	69.6	382.89	587.29	442.25	592.25	295.94	533.99	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	1.85	0	0	0.01	0	0	0.01	0.01	0.01	0.01	0.01	0	
#2Oil-Average HHV	144000	0	0	140177	0	0	140177	140177	140177	140177	140177	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	196530	131280	261900	79240	85470	66670	366700	562480	423550	567230	283410	511480	
Gas-Average HHV	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	
Puget Sound Energy	Operating Report												
Rollup Report for Selected Units (Inc. OMC)	Rollup												
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14		Nov-14	Dec-14	
Unit Rating	85	85	85	85	85	85	85	85	85		85	85	
Net Dep. Capacity	85	85	85	85	85	85	85	85	85		85	85	
Net Gen (mwh)	33903	19735	0	0	7359	883	23336	58811	56993		11286	11008	223314.5
Gross Gen (mwh)	34837	20215	0	0	7519	908	23912	60311	58381		11394	11136	
Station Svc(mwh)	934	480	0	0	160	25	576	1500	1388		107.8	127.7	
Net Ht Rt(btu/kwh)	12265.96	11970	0	0	12018.98	12450	12259	12030	1201.4		12612	12715	
Gross Ht Rt(btu/kwh)	11937.1	11686	0	0	11763.22	12107	11964	11730	1172.9		12493	12570	
Period Hours	744	672	743	720	744	720	744	744	720		721	744	
Available Hours	744	552.5	0	465.5	628.13	720	707.93	744	720		719.65	743.57	
Service Hours	692.25	235.62	0	0	90.87	12.8	310.9	724.53	720		464.02	183.97	3434.96
Condensing Hours	0	0	0	0	0	0	0	0	0		0	0	
Actual Starts	1	1	0	0	1	1	21	2	0		2	3	
Attempted Starts	1	1	0	0	1	1	21	2	0		2	3	



Availability Factor	100	100	100	100	32.76	0	88.52	100	98.25	78.94	95.6	100
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100
EFORD(%)	0	0	0	0	0	0	0	0	0	0	0	0
MMBTUs (x1000)	47.86	61.04	142.82	297.47	201.43	0	557.5	516.79	500.01	443.2	479.46	341.08
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0.01	0	0.01	0.01
#2Oil-Average HHV	0	0	0	0	0	0	0	0	144000	0	144000	140766
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	45840	58470	136800	284930	192940	0	534000	495010	478883	424519	459198	326646
Gas-Average HHV	1044	1044	1044	1044	1044	0	1044	1044	1044	1044	1044	1044

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup  
Rollup

Unit Rating	85
Net Dep. Capacity	85
Net Gen (mwh)	820306.5
Gross Gen (mwh)	834936.41
Station Svc(mwh)	14629.91
Net Ht Rt(btu/kwh)	11444.01
Gross Ht Rt(btu/kwh)	11243.49
Period Hours	25536
Available Hours	21555.18
Service Hours	11631.5
Condensing Hours	0
Actual Starts	118
Attempted Starts	118
Hydro Gen Starts	0
Hydro Pump Starts	0
Eq. Avail. Factor	84.41
Net Capacity Factor	37.79
Generation Use Factor	44.77
Eq. Forced Out. Rate	0.02
Availability Factor	84.41
Starting Reliability	100
EFORD(%)	0.02
MMBTUs (x1000)	9387.6
Coal-Burned (tons)	0
Coal-Average HHV	0



Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	2.06	0	0	0.01	0	0	0.01	0.01	0.01	0.01	0.01	0
#2Oil-Average HHV	144000	0	0	140177	0	0	140177	144000	140177	140177	140177	0
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	193770	129380	256100	70680	67250	75600	381760	441920	423480	538360	285650	541700
Gas-Average HHV	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	85	85	85	85	85	85	85	85	85	85	85	85	
Net Dep. Capacity	85	85	85	85	85	85	85	85	85	85	85	85	
Net Gen (mwh)	42434	20527	0	0	3245	856	21792	56828	55370	28596.7	10918	10258	250824.4
Gross Gen (mwh)	43368	21007	0	0	3305	881	22368	58328	56758	28682	11022	10377	
Station Svc(mwh)	934	480	0	0	60	25	576	1500	1388	85.3	104.3	119	
Net Ht Rt(btu/kwh)	11876.97	11827	0	0	12026.11	12452	12274	12051	1200.3	12062.6	12665	12686	
Gross Ht Rt(btu/kwh)	11621.18	11557	0	0	11807.78	12099	11958	11741	1171	12026.7	12545	12541	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	665.5	552.5	0	465.5	628.13	720	707.93	744	720	610.92	721	744	
Service Hours	660	235.48	0	0	41.75	12.7	298.63	724.53	695.38	402.55	186.95	172.55	3430.52
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	1	1	0	0	1	1	20	2	0	6	2	3	
Attempted Starts	1	1	0	0	1	1	20	2	0	6	2	3	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	89.45	82.22	0	64.65	84.43	100	95.15	100	100	82.11	100	100	
Net Capacity Factor	67.1	35.94	0	0	5.13	1.4	34.46	89.86	90.47	45.22	17.81	16.22	
Generation Use Factor	75.01	43.71	0	0	6.08	1.4	36.21	89.86	90.47	55.07	17.81	16.22	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0	0	0	0	
Availability Factor	89.45	82.22	0	64.65	84.43	100	95.15	100	100	82.11	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0	0	0	0	
MMBTUs (x1000)	503.99	242.78	0	0	39.02	10.66	267.47	684.83	66.46	344.95	138.27	130.13	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.01	0.01	0	0	0	0	0.01	0	0	0	0	0	
#2Oil-Average HHV	140177	144000	0	0	0	0	144000	0	0	0	0	0	

#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	482690	232490	0	0	37380	10210	256140	655970	63660	334903	134245	126343	
Gas-Average HHV	1044	1044	0	0	1044	1044	1044	1044	1044	1030	1030	1030	
Puget Sound Energy Rollup Report for Selected Units (Inc. OMC)	Operating Report Rollup												
	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	85	85	85	85	85	85	85	85	85	85	85	85	
Net Dep. Capacity	85	85	85	85	85	85	85	85	85	85	85	85	
Net Gen (mwh)	3393	4565	11133	23307	16460	0	44949	41372	40452	35998	39557	26107	287293
Gross Gen (mwh)	3592	4671	11292	23932	16570	0	44971	41372	40452	35998	39557	26107	
Station Svc(mwh)	199	106	159	625	110	0	21.99	0	0	0	0	0	
Net Ht Rt(btu/kwh)	13415.38	12928	12388	12441	11953.36	0	12279	12092	11805	11733.9	11689	12323	
Gross Ht Rt(btu/kwh)	12672.16	12635	12213	12116	11874	0	12273	12092	11805	11733.9	11689	12323	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	571.62	672	743	720	243.75	0	658.62	744	705.17	587.33	689.25	744	
Service Hours	60.35	85.25	174.5	359.4	232.18	0	658.62	627.45	557.79	460.23	527.18	404.78	4147.73
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	2	1	5	4	1	0	1	3	4	2	6	3	
Attempted Starts	2	1	5	4	1	0	1	3	5	2	6	3	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	76.83	100	100	100	32.76	0	88.52	100	97.94	78.94	95.6	100	
Net Capacity Factor	5.37	7.99	17.63	38.08	26.03	0	71.08	65.42	66.1	56.92	64.55	41.28	
Generation Use Factor	6.98	7.99	17.63	38.08	79.44	0	80.29	65.42	67.49	72.11	67.52	41.28	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0.4	0	0	0	
Availability Factor	76.83	100	100	100	32.76	0	88.52	100	97.94	78.94	95.6	100	
Starting Reliability	100	100	100	100	100	100	100	100	80	100	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0.4	0	0	0	
MMBTUs (x1000)	45.52	59.02	137.91	289.97	196.75	0	551.94	500.25	477.54	422.4	462.39	321.71	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0	0	0	0	0	0	0	0	0.01	0	0.01	0.01	
#2Oil-Average HHV	0	0	0	0	0	0	0	0	144000	0	144000	140766	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	43600	56530	132100	277750	188460	0	528680	479170	457358	404596	442841	308098	
Gas-Average HHV	1044	1044	1044	1044	1044	0	1044	1044	1044	1044	1044	1044	
Puget Sound Energy Rollup Report for Selected Units (Inc. OMC)	Operating Report Rollup Rollup												



Unit Rating	85
Net Dep. Capacity	85
Net Gen (mwh)	827534.4
Gross Gen (mwh)	841280.99
Station Svc(mwh)	13746.59
Net Ht Rt(btu/kwh)	11434.32
Gross Ht Rt(btu/kwh)	11247.48
Period Hours	26280
Available Hours	21545.34
Service Hours	11491.06
Condensing Hours	0
Actual Starts	120
Attempted Starts	123
Hydro Gen Starts	0
Hydro Pump Starts	0
Eq. Avail. Factor	81.98
Net Capacity Factor	37.05
Generation Use Factor	45.19
Eq. Forced Out. Rate	0.09
Availability Factor	81.98
Starting Reliability	97.56
EFORD(%)	0.09
MMBTUs (x1000)	9462.29
Coal-Burned (tons)	0
Coal-Average HHV	0
Coal-%Ash	0
Coal-%Sulfur	0
Coal-%Moisture	0
#2Oil-Burned(gal)	2.18
#2Oil-Average HHV	143879.94
#2Oil-%Sulfur	0
Gas-Burned(mcf)	9058863.77
Gas-Average HHV	1043.08
net generation MWhr	2,441,055
net service hours	34,888
net generation w/o STG	1,647,841
net STG generation	793,214
net available hours	65,290.69







**EthosEnergy Invoicing - SOW work**

Invoice #	Due Date	description	Subtotal	Sales Tax		submitted to PSE		PSE Contract	Contract Shortfall	invoice comments
				8.50%	Total					
SI14445	9/10/15	ST Major	\$529,375.18	\$44,996.89	\$574,372.07	9/18/15 to CM	\$574,372.07	SOW	none	Final ST report received 9/29/15. Vibration correction required.
SI14544	9/25/15	STG minor	\$37,560.46	nontaxable	\$37,560.46	9/18/15 to CM	\$40,753.10	SOW	(\$3,192.64)	inspection only - non taxable. Oil leak repair required.
SI14662	10/14/15	GT Cis	\$187,856.20	\$15,967.77	\$203,823.97	9/18/15 to CM	\$203,823.98	SOW	none	Final CT A and CT B reports received 9/29/15.
SI14664	10/14/15	GT Borescopes	\$12,300.00	nontaxable	\$12,300.00	9/18/15 to CM	\$13,345.50	SOW	(\$1,045.50)	inspection only - non taxable
<b>SOW totals</b>					<b>\$828,056.50</b>		<b>\$832,294.65</b>			

**EthosEnergy Invoicing - Change Orders**

SI14302	8/26/15	EWAR1	\$119,688.00	\$10,173.48	\$129,861.48	8/12/15 to CM	\$60,000.00	CO No.1 - EWAR 1	\$69,861.48	
		EWAR2			not used	n/a				
SI14686	10/18/15	EWAR3	\$262,116.78	\$22,279.94	\$284,396.72	9/28/15 to CM	\$533,473.00	CO No.2 - EWAR 3,4,5 8	\$73,629.80	credit applied
SI14580	9/26/15	EWAR4	\$173,765.00	\$14,770.03	\$188,535.03	9/18/15 to CM				
SI14581	9/26/15	EWAR4	\$91,912.00	nontaxable	\$91,912.00	9/18/15 to CM				engineering and analysis items (b & c) - non taxable
SI14392	8/30/15	EWAR5	\$38,948.43	\$3,310.62	\$42,259.05	8/12/15 to CM				
		EWAR6			no charge	n/a				
SI14829	8/30/15	EWAR7	\$8,998.89	\$764.91	\$9,763.80	10/6/15 to CM			\$9,763.80	invoice reduced for result not achieved
SI14545	9/25/15	EWAR8	\$18,798.62	nontaxable	\$18,798.62	9/18/15 to CM			\$18,798.62	engineering & inspection only work - non taxable
<b>Total ST Change Orders</b>					<b>\$765,526.70</b>		<b>\$593,473.00</b>		<b>\$167,815.56</b>	
<b>ST Grand Total</b>					<b>\$1,377,459.23</b>					
<b>CT Grand Total</b>					<b>\$216,123.97</b>					\$108,061.99 per CT

CM costs not part of expected MM costs	\$410,308.51
ST MM costs for 2015 outage	\$967,150.72
CT Grand Total	\$216,123.97
	<b>\$1,183,274.69</b>

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

Selected Units:  
WHITE2  
WHITE3

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	
Unit Rating	148	148	148	148	148	148	148	148	148	148	148	148	
Net Dep. Capacity	148	148	148	148	148	148	148	148	148	148	148	148	
Net Gen (mwh)	1915.2	742.9	515.3	2506.2	704.5	2400.4	2637.9	6635.8	4926.9	2371.9	1837.6	1495.4	28690
Gross Gen (mwh)	1933.9	748.5	517.5	2533.6	707.1	2424.8	2663.2	6679.6	4951.1	2388.9	1851.3	1519.3	
Station Svc(mwh)	18.7	5.6	2.2	27.4	2.6	24.4	25.3	43.8	24.2	17	13.7	23.9	
Net Ht Rt(btu/kwh)	20429.41	16982.97	12554.43	23600.41	13006.32	21559.84	21107.76	17129.7	14700.22	16908.15	16523.26	26474.72	
Gross Ht Rt(btu/kwh)	20231.86	16855.91	12501.06	23345.18	12958.49	21342.89	20907.24	17017.37	14628.37	16787.83	16400.99	26058.25	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	1488	1335.4	1478.23	1428.77	1042.02	1439.45	1488	1422.37	915.43	1383.23	1422.45	1460.92	
Service Hours	94.6	25.05	7.24	159.78	12.65	135.92	149.19	242.42	126.67	80.74	58.75	87.67	
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	14	8	3	21	3	18	17	31	13	25	21	15	
Attempted Starts	14	8	3	21	3	18	17	31	13	27	21	15	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	99.36	99.48	99.22	70.03	99.96	100	95.59	63.57	92.96	98.64	98.18	
Net Capacity Factor	1.74	0.75	0.47	2.35	0.64	2.25	2.4	6.03	4.62	2.15	1.72	1.36	
Generation Use Factor	1.74	0.75	0.47	2.37	0.91	2.25	2.4	6.3	7.27	2.32	1.75	1.38	
Eq. Forced Out. Rate	0	0	0	0	0	0	0	0	0	20.6	9.92	23.6	
Availability Factor	100	99.36	99.48	99.22	70.03	99.96	100	95.59	63.57	92.96	98.64	98.18	
Starting Reliability	100	100	100	100	100	100	100	100	100	92.59	100	100	
EFORD(%)	0	0	0	0	0	0	0	0	0	8.24	3.43	6.32	
MMBTUs (x1000)	39.13	12.62	6.47	59.15	9.16	51.75	55.68	113.67	72.43	40.1	30.36	39.59	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.03	0.08	0.26	0.02	0.04	0	0.03	0.05	0	0.09	0.18	0.21	
#2Oil-Average HHV	140000	140000	140000	140000	140000	0	140000	140000	0	140000	140000	140000	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	38000	11850	4820	57590	8710	50490	54150	110610	70660	38610	28590	37420	
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	

Puget Sound Energy  
Rollup Report for Selected Units (Inc. OMC)

Operating Report  
Rollup

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	
Unit Rating	148	148	148	148	148	148	148	148	148	148	148	74	
Net Dep. Capacity	148	148	148	148	148	148	148	148	148	148	148	74	
Net Gen (mwh)	1638.8	1673	3569.1	3922.7	3055.8	2654.8	2595.5	2530.1	1135.5	93	1279.6	661.7	24809.6
Gross Gen (mwh)	1650.3	1691.9	3597.6	3962.6	3096.2	2681.1	2629.4	2550.8	1140.9	95	1295.9	677.5	

Station Svc(mwh)	11.5	18.9	28.5	39.9	40.4	26.3	33.9	20.7	5.4	2	16.3	15.8	
Net Ht Rt(btu/kwh)	16689.8	21081.92	17794.12	21170.49	25633.39	20996.74	26005.1	19155.03	14433.95	36624.81	23059.49	20753.01	
Gross Ht Rt(btu/kwh)	16573.5	20846.42	17653.16	20957.33	25298.91	20790.78	25669.83	18999.59	14365.63	35853.76	22769.45	20269.03	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	1486.03	1344	1486	1417.02	1014.07	1274.27	1488	1488	965.9	1488	1442	744	
Service Hours	52.85	85.5	140.87	215.4	223.74	141.88	201.02	120.3	27.78	751.72	1083.3	744	
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	19	13	21	29	22	20	20	19	8	4	7	0	
Attempted Starts	19	13	21	29	22	20	20	19	8	4	7	0	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	99.87	100	100	98.4	68.15	88.49	100	100	67.08	100	100	100	
Net Capacity Factor	1.49	1.68	3.25	3.68	2.78	2.49	2.36	2.3	1.07	0.08	1.2	1.2	
Generation Use Factor	1.49	1.68	3.25	3.74	4.07	2.82	2.36	2.3	1.59	0.08	1.2	1.2	
Eq. Forced Out. Rate	3.59	0	0	1.16	0	40.29	0	0	0	0	0	0	
Availability Factor	99.87	100	100	98.4	68.15	88.49	100	100	67.08	100	100	100	
Starting Reliability	100	100	100	100	100	100	100	100	100	100	100	100	
EFORD(%)	2.16	0	0	0.88	0	10.09	0	0	0	0	0	0	
MMBTUs (x1000)	27.35	35.27	63.51	83.05	78.33	55.74	67.5	48.46	16.39	3.41	29.51	13.73	
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0	
#2Oil-Burned(gal)	0.25	0.76	0	0	0	0.18	0	0.03	0	0	0	0	
#2Oil-Average HHV	140000	140000	0	0	0	140000	0	140000	0	0	0	0	
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0	
Gas-Burned(mcf)	25250	30050	61960	81020	76420	53350	65850	47110	15990	3306.9	28647.5	13332.3	
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1030	1030	1030	
Puget Sound Energy Rollup Report for Selected Units (Inc. OMC)	Operating Report Rollup												
	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	
Unit Rating	148	148	148	148	148	148	148	148	148	148	148	148	
Net Dep. Capacity	148	148	148	148	148	148	148	148	148	148	148	148	
Net Gen (mwh)	2195.2	2960.6	2957.8	437	2711.2	9355.8	3238	6287.1	5694	1262	2034.3	481.3	39614.3
Gross Gen (mwh)	2223.7	3009	2990	440.9	2733	9398.6	3279.8	6321.39	5720.59	1275.08	2042.6	489.29	
Station Svc(mwh)	28.5	48.4	32.2	3.9	21.8	42.8	41.8	34.29	26.59	13.08	8.3	7.99	
Net Ht Rt(btu/kwh)	23304.12	28368.35	21738.54	20352.23	18367.6	13942.54	13695.37	15085.37	14292.4	20569.04	15273.98	23096.04	
Gross Ht Rt(btu/kwh)	23005.44	27912.05	21504.43	20172.2	18221.09	13879.05	13520.82	15003.54	14225.96	20358.04	15211.91	22718.89	
Period Hours	744	672	743	720	744	720	744	744	720	744	721	744	
Available Hours	1488	1329.37	1476.48	978.13	1423.9	1440	1488	1452.98	1369.62	971.13	1404.45	1346.1	
Service Hours	139.23	261.3	176.95	22.72	287.48	223.58	69.1	181.72	143.02	69.53	134.63	42.05	
Condensing Hours	0	0	0	0	0	0	0	0	0	0	0	0	
Actual Starts	28	17	25	5	27	23	12	27	14	11	20	8	
Attempted Starts	28	17	25	5	27	23	12	28	14	11	20	8	
Hydro Gen Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Hydro Pump Starts	0	0	0	0	0	0	0	0	0	0	0	0	
Eq. Avail. Factor	100	98.91	99.36	67.93	95.69	100	100	97.65	95.11	65.26	96.36	90.46	

Net Capacity Factor	1.99	2.98	2.69	0.41	2.46	8.78	2.94	5.71	5.34	1.15	1.91	0.44
Generation Use Factor	1.99	3.01	2.71	0.6	2.57	8.78	2.94	5.85	5.62	1.76	1.98	0.48
Eq. Forced Out. Rate	0	5.3	0	61.13	13.33	0	0	16.16	2.98	66.95	25.1	0
Availability Factor	100	98.91	99.36	67.93	95.69	100	100	97.65	95.11	65.26	97.4	90.46
Starting Reliability	100	100	100	100	100	100	100	96.43	100	100	100	100
EFORD(%)	0	3.78	0	31.2	7.06	0	0	7.49	2.48	18.05	8.36	0
MMBTUs (x1000)	51.16	83.99	64.3	8.89	49.8	130.44	44.35	94.84	81.38	25.96	31.07	11.12
Coal-Burned (tons)	0	0	0	0	0	0	0	0	0	0	0	0
Coal-Average HHV	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Ash	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Coal-%Moisture	0	0	0	0	0	0	0	0	0	0	0	0
#2Oil-Burned(gal)	0.04	0.27	0	0	0.1	0.03	0	0	0	3888	5351	0.42
#2Oil-Average HHV	140000	140000	0	0	140000	140000	0	0	0	0	0	0
#2Oil-%Sulfur	0	0	0	0	0	0	0	0	0	0	0	0
Gas-Burned(mcf)	49680	80390	62730	8677	48010	127090	43264	92530	79396	25325	30314	10845
Gas-Average HHV	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025
Puget Sound Energy												
Rollup Report for Selected Units (Inc. OMC)												
Unit Rating	145.94											
Net Dep. Capacity	145.94											
Net Gen (mwh)	<b>93113.9</b>											
Gross Gen (mwh)	93911.97											
Station Svc(mwh)	798.07											
Net Ht Rt(btu/kwh)	18575.61											
Gross Ht Rt(btu/kwh)	18417.75											
Period Hours	25908											
Available Hours	48109.72											
Service Hours	<b>6720.35</b>											
Condensing Hours	0											
Actual Starts	588											
Attempted Starts	591											
Hydro Gen Starts	0											
Hydro Pump Starts	0											
Eq. Avail. Factor	92.82											
Net Capacity Factor	2.43											
Generation Use Factor	2.62											
Eq. Forced Out. Rate	6.6											
Availability Factor	92.85											
Starting Reliability	99.49											
EFORD(%)	2.9											
MMBTUs (x1000)	1729.65											
Coal-Burned (tons)	0											
Coal-Average HHV	0											
Coal-%Ash	0											
Coal-%Sulfur	0											
Coal-%Moisture	0											

Operating Report  
Rollup  
Rollup



#2Oil-Burned(gal)	9242.07
#2Oil-Average HHV	40.14
#2Oil-%Sulfur	0
Gas-Burned(mcf)	1672037.7
Gas-Average HHV	1025.14

net service hours	6720.35
net available hours	48109.72





Resource ID Whitehorn Generating Station Unit 3 Mandatory  
 Configuration ID 1x0 Optional

General Plant Information (for validation purposes)

	Response	Comments
Technology	Combustion_Turbine_and_Combined_Cycle	
Primary Fuel	Gas	
Boiler Pressure		
Circulation Design		
Combustion System		
Manufacturer	General_Electric_Frame_CTs	
Model Series	MS7001E	
Operating Speed (RPM)		
Reciprocating Engine Design		
Model	E	
In Service Date		29860
Summer Dependable Capacity (M)		67

Instructions on the use of the form

- 1) This is a dynamic form that responds to prior entries. To operate properly, it is necessary to be filled out in order from top to bottom and left to right. Therefore, begin by filling in the General Plant Information.
- 2) Color code:
  - Light green: Cells where data is to be provided.
  - Gray: Cells to be left empty. Values in these cells cause improper operation of the form. These cells are normally empty when the form is filled out in the proper order. Delete any values that appear in these cells.
  - Black: These cells do not apply based on the prior information provided in the form. Values in these cells are not used and do not affect the form.
  - Blue: Titles for columns or rows provided to describe the requested information.
  - White: Values supplied by the template.
- 3) Further instruction are embedded as notes that will appear when one moves the mouse over the heading.

Maintenance Cycles

Cycle	Equipment Group	Criteria	Primary Factor	Secondary Factor	Equivalence to	Equivalency Unit	Third Fact	Equivalenc	Equivalenc	Fourth Fac	Equivalenc	Equivalency Units
A	Prime Mover	Single parameter	Starts			per Starts				per Starts		per Starts
B						per				per		per
C						per				per		per
D						per				per		per
E						per				per		per
F						per				per		per
G						per				per		per

Scheduling Coordinator Estimates (Scheduling Coordinators have the option of directly providing Major Maintenance Cost Adders here, or instead providing details needed to calculate the cost in the "Maintenance Actions" table below.)

Cycle	\$ per Start	\$ per Run Hour	\$ per MWhr	\$ per Calendar Hr	Cost Basis	References and Comments
A	\$4,167.10				Historical Costs (adjust to current year \$)	BI Actuals, Invoices, Peaker O&M Supervisor input based on GER-3620M
B	\$4,390.35					
C						
D						
E						
F						
G						

Maintenance Actions

Row	Cycle	Scheduled Maintenance Action	Description	Cost	Year Dollars	Cycle Incremental Requirements								
						Incremental Oper	Row Refer	Increments	Row Refer	Increments	Row Refer	Increments	Row Reference	
1	A	Beginning of Current Cycle												
2	A	Combustion Inspection	CTG Combustion Inspection/HGP	\$416,766.00	2014	\$520,210.00	2	600	2	\$694.61	\$867.02			
3	A	Major Maintenance and Inspection	CTG Major Inspection	\$3,938,987.00	2008	\$4,000,000.00	3	1200	3	\$3,282.49	\$3,333.33			
4	A	End of Current Cycle					4							













552007857	FRA SITE WOOD AND YARD CLEANUP	ENR-E-THRM-FRA-FACL-GRND	200008832	4PB	71362	FRA ROADS & GROUNDS	09/08/2015	CLSD PCNF MANC NMAT PRC SETC	3160.6
552007865	CLEANUP CTG1/2 BLACKTOP AND GRAVEL AREA	ENR-E-THRM-FRA-FACL-GRND	200008872	4PB	71362	FRA ROADS & GROUNDS	09/14/2015	CLSD PCNF MANC NMAT PRC SETC	199.05
552007717	INSTL VLV REGULATOR COVERS AROUND PLANT	ENR-E-THRM-FRA-FACL-GRND	200008897	4PB	71362	FRA ROADS & GROUNDS	10/12/2015	CLSD GMPS MANC NMAT PRC SETC	6041.9
552007830	FREDONIA CONNEX BOX CLEANUP	ENR-E-THRM-FRA-FACL-GRND	200008748	4PB	71362	FRA ROADS & GROUNDS	10/19/2015	CLSD PCNF MANC NMAT PRC SETC	6911.59
552008029	OILY WATER TANK PUMPING/ PLATFORM BUILD	ENR-E-THRM-FRA-FACL-SPCC	400022883	4PB	71364	SPCC EQUIPMENT	12/30/2015	392.47 TECO PCNF PRT NMAT PRC SETC	
570007428	CTG1 PT CUBICAL DOOR REPAIRS	ENR-E-THRM-FRA-SUB1-XFMR	400019596	ACT	FRA_CTG1 100539	TRANSFORMER, FACL HIGH VOLTAGE	06/15/2015	3,200.27 CLSD GMPS MANC NMAT PRC SETC	
570008388	CTG2 DAMAGED FUSE ON THE 13.8KV LINE	ENR-E-THRM-FRA-SUB1-XFMR	400022734	ACT	100539	TRANSFORMER, FACL HIGH VOLTAGE	12/10/2015	908.91 TECO PCNF PRT GMPS NMAT PRC SETC	
549005020	FRA SAFETY GATES INSTALL FROM AUDIT	ENR-E-THRM-FRA	200008290	4FS			02/09/2015	CLSD PCNF MANC NMAT PRC SETC	2842.12
553026032	CTG1&2 OUTAGE PREP	ENR-E-THRM-FRA	200008571	4PC			05/18/2015	3,987.53 CLSD PCNF GMPS MANC NMAT PRC SETC	
549005358	FREDONIA WEED SPRAYING 2015	ENR-E-THRM-FRA	200008606	4FG			05/29/2015	CLSD PCNF PRT GHPS MANC NMAT PRC SETC	4373.69
553025890	FREDONIA RELAY TESTING 2015	ENR-E-THRM-FRA	200008534	4PE			06/15/2015	CLSD PCNF MANC NMAT PPRT PRC SETC	26,124.01
554012063	2015 INFRARED DISCREPANCIES	ENR-E-THRM-FRA	400022710	4CA			12/14/2015	470.97 TECO PCNF MANC NMAT PRC SETC	
								<b>1,623,199.41</b>	

Resource ID Fredonia Generating Station Unit 2 Mandatory

Configuration ID 1x0 Optional

General Plant Information (for validation purposes)

Technology	Response	Comments
Primary Fuel	Combustion_Turbine_and_Combined_Cycle	
Boiler Pressure	Gas	
Circulation Design		
Combustion System		
Manufacturer	Siemens_Westinghouse	
Model Series	501D	
Operating Speed (RPM)		
Reciprocating Engine Design		
Model		5
In Service Date		32073
Summer Dependable Capacity (MW)		92

Instructions on the use of the form

- 1) This is a dynamic form that responds to prior entries. To operate properly, it is necessary to be filled out in order from top to bottom and left to right. Therefore, begin by filling in the General Plant Information.
- 2) Color code:
  - Light green: Cells where data is to be provided.
  - Gray: Cells to be left empty. Values in these cells cause improper operation of the form. These cells are normally empty when the form is filled out in the proper order. Delete any values that appear in these cells.
  - Black: These cells do not apply based on the prior information provided in the form. Values in these cells are not used and do not affect the form.
  - Blue: Titles for columns or rows provided to describe the requested information.
  - White: Values supplied by the template.
- 3) Further instruction are embedded as notes that will appear when one moves the mouse over the heading.

Maintenance Cycles

Cycle	Equipment Group	Criteria	Primary Factor	Secondary Factor	Equivalence to Primary	Equivalency Units	Third Fact Equivalenc	Equivalenc	Fourth Fac Equivalenc	Equivalency Units
A	Prime Mover	Single parameter	Starts			per Starts		per Starts		per Starts
B						per		per		per
C						per		per		per
D						per		per		per
E						per		per		per
F						per		per		per
G						per		per		per

Scheduling Coordinator Estimates (Scheduling Coordinators have the option of directly providing Major Maintenance Cost Adders here, or instead providing details needed to calculate the cost in the "Maintenance Actions" table below.)

Cycle	\$ per Start	\$ per Run Hour	\$ per MWhr	\$ per Calendar Hr	Cost Basis	References and Comments
A	\$6,616.87				Historical Costs (adjust to current year \$)	SAP PM Work Order, BI Actuals
B	\$6,152.74					the per start cost applies to both FRA frame units
C						
D						
E						
F						
G						

Maintenance Actions

Row	Cycle	Scheduled Maintenance Action	Description	Cost	Year Dollars	Cycle Incremental Requirements								
						Incremental Operati	Row Refer	Increment:	Row Refer	Increment:	Row Refer	Increment:	Row Reference	
	1 A	Beginning of Current Cycle												
	2 A	Combustion Inspection	CTG Combustion Inspection/HGP	\$632,693.00		2014	\$631,645.00	2	600	2			\$1,054.49	\$1,052.74
	3 A	Major Maintenance and Inspection	CTG Major Inspection	\$5,954,858.00		2014	\$5,400,000.00	3	1200	3			\$4,962.38	\$4,500.00
	4 A	End of Current Cycle						4						



Table with multiple columns: ID, Name, Description, Status, etc. It contains a list of items with their respective details.

Table with multiple columns: Item ID, Name, Description, Status, etc. This is a large table containing detailed information for each item, including various attributes and values.













Resource	Maintenance Action	Cost	Year	Hours	Starts	Inflation factor	Adjusted cost	Adjusted cost per hour	Adjusted cost per start
Encogen	Turbine Combustion Inspection	541553	2011	12000		1.078604283	584121.3854	48.67678212	
Encogen	Turbine and Generator Major Inspection	1268989	2009	48000		1.103795647	1400704.534	29.18134446	
Encogen	ST Minor Inspection Generator Minor Inspection	517114	2011	24000		1.078604283	557761.3753	23.24005731	
Encogen	ST Major Inspection Generator Major Inspection	1482886	2017	48000		0.985998817	1462123.841	30.46091336	
Ferndale	CTG Combustion Inspection	561645	2015	8000		1.012364916	568589.6934	71.07371167	
Ferndale	CTG Hot Gas Path	1068722	2017	24000		0.985998817	1053758.627	43.90660948	
Ferndale	CTG Major Maintenance Inspection	1903308	2017	48000		0.985998817	1876659.436	39.09707158	
Ferndale	ST Minor Inspection Generator Minor Inspection	116194	2015	24000		1.012364916	117630.7291	4.901280378	
Ferndale	ST Major Inspection Generator Major Inspection	1818192	2015	48000		1.012364916	1840673.792	38.34737066	
Frederickson 1&2	CTG Combustion Inspection/HGP	1261863	2014		600	1.022581452	1290357.698		2150.596164 858267.4397 1430.445733
Frederickson 1&2	CTG Major Inspection	3820719	2010		1200	1.098744553	4197994.191		3498.328493 4307030.492 3589.192077
Fredonia 1&2	CTG Combustion Inspection/HGP	632693	2014		600	1.022581452	646980.1263		1078.300211 per start for each 7E 5019.63781
Fredonia 1&2	CTG Major Inspection	5954858	2014		1200	1.022581452	6089327.337		5074.439448
Fredonia 3&4	GG8 hot section insp & refurbishment	2500000	2016		600	1	2500000		4166.666667
Fredonia 3&4	PT8 Major Shop Insp & refurbishment	2500000	2016		1200	1	2500000		2083.333333
Whitehorn 2&3	CTG Combustion Inspection/HGP	416766	2014		600	1.022581452	426177.1812		710.2953021
Whitehorn 2&3	CTG Major Inspection	3938987	2008		1200	1.121117382	4416066.793		3680.055661
Goldendale	CTG Hot Gas Path Inspection	8693568	2016	24000		1	8693568	362.232	
Goldendale	CTG Major Inspection	25893568	2016	48000		1	25893568	539.4493333	
Goldendale	STG Minor Inspection	550000	2014	24000		1.022581452	562419.7984	23.43415826	
Goldendale	STG Major Inspection	1905255	2014	48000		1.022581452	1948278.423	40.58913382	
Mint Farm	CTG Hot Gas Path Inspection	8734003	2016	24000		1	8734003	363.9167917	
Mint Farm	CTG Major Inspection	13132808	2017	48000		0.985998817	12948933.15	269.7694406	
Mint Farm	STG Summary Inspection	963690	2014	14000		1.022581452	985451.519	70.38939422	
Mint Farm	STG Full Scale Inspection	1927380	2014	28000		1.022581452	1970903.038	70.38939422	
Mint Farm	STG Precision Inspection	608930	2019	70000		0.958581805	583709.2186	8.338703123	
Sumas	CTG Combustion Inspection	510771	2015	8000		1.012364916	517086.6406	64.63583008	
Sumas	CTG Hot Path Inspection	1606527	2010	24000		1.098744553	1765162.791	73.54844963	
Sumas	CTG Major Inspection	2487452	2017	48000		0.985998817	2452624.729	51.09634852	
Sumas	STG Minor Inspection	221349	2017	24000		0.985998817	218249.8521	9.093743838	
Sumas	STG Major Inspection	1178651	2017	48000		0.985998817	1162148.491	24.2114269	

	8000	12000	16000	20000	24000	28000	32000	36000	40000	44000	48000	Total Maintenance Cost		Peaker Total Maintenance Cost for 1200 starts	Maint Cost/Start	Maintenance Cost/start
												48,000 hour interval	Average			
<b>Whitehorn GE 7E, each unit</b>												starts	starts			
GE-7001E Type P71011(E) CI												600	1200	\$416,766.00	\$694.61	\$694.61
GE-7001E Type P71011(E) HGP												\$416,766.00		\$0.00	\$0.00	
GE-7001E Type P71011(E) MI													\$3,938,981.00	\$3,938,981.00	\$3,282.48	\$3,282.48
Call-out Labor											\$190.00			\$0.00	\$0.00	
GEN GE 74A-F Minor & Major Inspections							\$0.00	na	na	na				\$0.00	\$0.00	\$190.00
																\$4,167.09
<b>Frederickson GE 7E, each unit</b>												starts	starts			
GE-7001E Type P71011(E) CI												600	1200	\$1,261,863.00	\$2,103.11	\$2,103.11
GE-7001E Type P71011(E) HGP												\$1,261,863.00		\$0.00	\$0.00	
GE-7001E Type P71011(E) MI													\$3,820,719.00	\$3,820,719.00	\$3,183.93	\$3,183.93
Call-out Labor											\$190.00			\$0.00	\$0.00	
GEN GE 74A-F Minor & Major Inspections							\$0.00	na	na	na				\$0.00	\$0.00	\$190.00
																\$5,477.04
<b>Fredonia SW501FD-2, each unit</b>												starts	starts			
SW501D5 CI 876												600	1200	\$632,693.00	\$1,054.49	\$1,054.49
SW501D5 HGP												\$632,693.00		\$0.00	\$0.00	
SW501D5 MI													\$5,954,858.00	\$5,954,858.00	\$4,962.38	\$4,962.38
Call-out Labor 876											\$600.00			\$0.00	\$0.00	
W-7A4 Hydrogen Cooled				na	na	na	na	na	na	na		na	\$0.00	\$0.00	\$0.00	\$600.00
																\$6,616.87
<b>Fredonia PW FT-8 Twin Packs</b>												starts	starts			
PW FT-8 CI														\$287,190.00	\$5.98	\$287,190.00
PW FT-8 MI													\$2,500,000.00	\$0.00	\$0.00	\$2,500,000.00
Call-out Labor											\$900.00			\$0.00	\$0.00	
											na		\$0.00	\$0.00	\$0.00	\$900.00
																\$3,461.98

Cost Element Breakdown

Table with columns for Fiscal year, Overall Result, and monthly data from 2013 to 2015. Rows include WBS Element, Overall Result, S.01237.09, and MTF Service Agreements Maint.

Labour

Could not find any data to display. This might be due to the current selection of variable or filter values

Vendor Charges summary table showing Goldendale (2,674,440) and Mint Farm (2,188,489).

Detailed Vendor Charges table with columns for Fiscal year, Overall Result, and monthly data from 2013 to 2015. Includes WBS Element, Overall Result, and various vendor names like GE INTERNATIONAL INC.

Coded-Material Charges

110.67

Coded-Material Charges table with columns for Fiscal year, Overall Result, and monthly data from 2013 to 2014. Rows include WBS Element, Overall Result, and material codes like 60611100.

PCARD Purchases

Could not find any data to display. This might be due to the current selection of variable or filter values

Variables
Forecast Version (Current)
Budget Version
ZRESTRIIND (A-selection/hidden)

Static Filters
Restricted Order Ind
Controlling Area
Fiscal Year Variant
Approval Year
Program Definition

Dynamic Filters
PACE Location
IM Node
Project Type
WBS Element
Fiscal year/period
Measures
Cost Element