UTILITY COMMITTEE
AGENDA

JANUARY 12, 2015 - 5:15 P.M.

CITY HALL COUNCIL CHAMBERS
15 LOOCKERMAN PLAZA
DOVER, DELAWARE

PUBLIC COMMENTS ARE WELCOMED ON ANY ITEM AND WILL BE PERMITTED AT APPROPRIATE TIMES. WHEN POSSIBLE, PLEASE NOTIFY THE CITY CLERK (736-7008 OR E-MAIL AT CITYCLERK@DOVER.DE.US) SHOULD YOU WISH TO BE RECOGNIZED.

AGENDA ADDITIONS/DELETIONS

1. **DEDICATION OF RIGHTS-OF-WAY AND PUBLIC INFRASTRUCTURE - EDEN HILL PHASE 1**
   (ACCEPTANCE OF RIGHTS-OF-WAY AND PUBLIC INFRASTRUCTURE IN THE EDEN HILL, PHASE I SUBDIVISION. DEDICATION IS TO INCLUDE ALL OF THE REFERENCED PUBLIC IMPROVEMENTS.)

2. **TEA/NAES REPORTS *(SEPTEMBER, OCTOBER, AND NOVEMBER)***
   (STAFF RECOMMENDS ACCEPTANCE OF THE REPORTS)

3. **UPDATES**
   (COMMITTEE ACTION NOT REQUIRED ON THE BELOW ITEMS)
   - **A. GREEN ENERGY FUNDING AND PROGRAMMING**
   - **B. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4) PERMIT**
   - **C. GARRISON OAK TECHNICAL PARK PROJECT UPDATES**
     - **C-1. CITY INFRASTRUCTURE**
     - **C-2. CALPINE ENERGY CENTER**
     - **C-3. DOVER SUN PARK**

4. **ADJOURNMENT BY 5:55 P.M.**

/TM
S:\AGENDAS-MINUTES-PACKETS-PRESENTATIONS-ATT&EXH\COMMITTEE-AGENDAS\2015\01-12-2015 UTILITY.WPD

THE AGENDA ITEMS AS LISTED MAY NOT BE CONSIDERED IN SEQUENCE. THIS AGENDA IS SUBJECT TO CHANGE TO INCLUDE THE ADDITION OR THE DELETION OF ITEMS, INCLUDING EXECUTIVE SESSIONS.

ACTION FORM

PROCEEDING: Utility Committee	**AGENDA ITEM**:
DEPARTMENT OF ORIGIN: Public Works	**DATE SUBMITTED**: 12/29/14
PREPARED BY: Sharon J. Duca, P.E., Public Works Director / City Engineer	
SUBJECT: Dedication of Rights-of-Way and Public Infrastructure – Eden Hill Phase I	
REFERENCE: N/A	
RELATED PROJECT: N/A	
APPROVALS: City Manager	
EXHIBITS: Attachment A – List of Public Improvements to be accepted by the City of Dover Attachment B – Map	
EXPENDITURE REQUIRED: $ N/A	**AMOUNT BUDGETED**: $ N/A
FUNDING SOURCE (Dept./Page in CIP & Budget): N/A	
TIMETABLE: All infrastructure improvements will become the responsibility of the City of Dover upon acceptance by City Council.	
RECOMMENDED ACTION: Acceptance of rights-of-way and public infrastructure in the Eden Hill, Phase I Subdivision. Dedication is to include all of the referenced public improvements.	

BACKGROUND AND ANALYSIS

Pettinaro Construction Company, Inc., responsible party for completing the public infrastructure within the Eden Hill, Phase I development, has requested that all public infrastructure improvements be dedicated to the City of Dover for permanent ownership and maintenance. Attachment A outlines all of the public improvements associated with this phase of the development. The total construction value of the public improvements is $1,734,706. Attachment B shows the general location and configuration of the subject rights-of-way. The Pettinaro Construction Company has completed construction of the improvements in accordance with City standards and specifications. After construction was completed, City staff inspected the public improvements and developed a list of repairs to be made to meet the City of Dover Standards and Specifications for Public Works Construction. As of this date, all work required by the Public Works Director has been completed. A one (1) year Maintenance Agreement and a Release of Liabilities will be submitted as part of the dedication process. Required as-built drawings of the infrastructure as well as videos of the sanitary sewer mains have been provided to staff.

DEDICATION OF RIGHTS-OF-WAY AND PUBLIC INFRASTURCTURE
EDEN HILL PHASE I

ATTACHMENT A

The following is a list of all public improvements which are to be accepted by the City of Dover:

Sewer Utility Infrastructure (Construction Value = $393,180):

8” SDR-35 PVC Sanitary Sewer Main	-	9,546 l.f.
6” SDR-35 PVC Sanitary Sewer Laterals	-	1,760 l.f. (83 laterals)
4' Diameter Sanitary Sewer Manholes	-	12 ea. (70.14 v.f.)

Water Utility Infrastructure (Construction Value = $161,820):

10” Ductile Iron (Class 52 Cement Lined) Water Main	-	4,550 l.f.
8” Ductile Iron (Class 52 Cement Lined) Water Main	-	2,680 l.f.
6” Ductile Iron (Class 52 Cement Lined) Water Main	-	121 l.f.
1” Polyethylene Water Service Lines	-	1,760 l.f. (83 services)
10” Gate Valve	-	19 ea.
8” Gate Valve	-	14 ea.
6” Hydrant Valve	-	4 ea.
Fire Hydrants	-	4 ea.

Storm Water Infrastructure (Construction Value = $347,200):

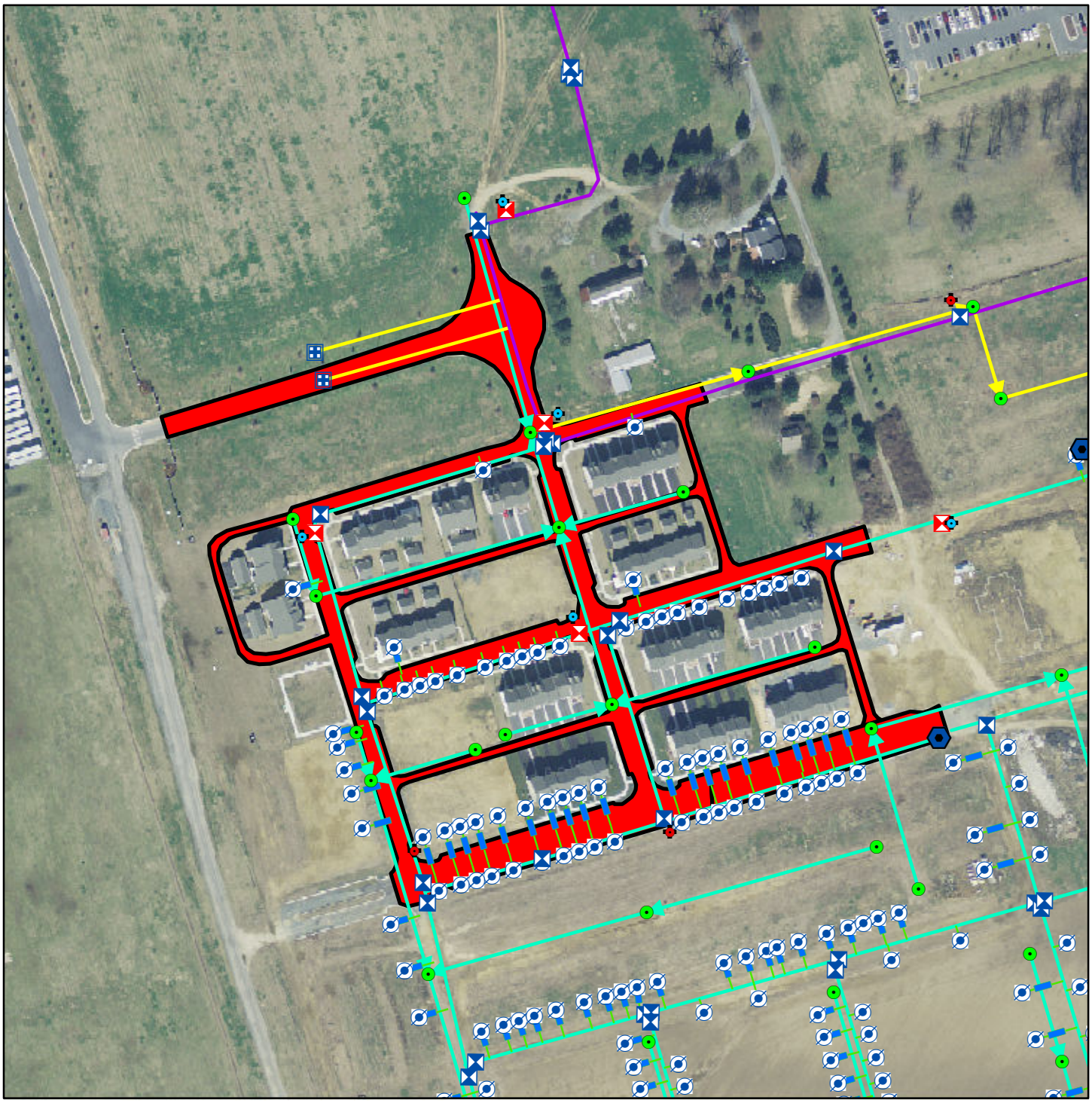
Catch Basins	-	84 ea.
4’ Diameter Storm Water Manholes	-	5 ea.
15” Type III Reinforced Concrete Pipe	-	2,800 l.f.
18” Type III Reinforced Concrete Pipe	-	1,605 l.f.
21” Type III Reinforced Concrete Pipe	-	132 l.f.
24” Type III Reinforced Concrete Pipe	-	601 l.f.
30” Type III Reinforced Concrete Pipe	-	646 l.f.
36” Type III Reinforced Concrete Pipe	-	165 l.f.
42” Type III Reinforced Concrete Pipe	-	185 l.f.
48” Type III Reinforced Concrete Pipe	-	2,156 l.f.
19” x 30” Type III Reinforced Concrete Elliptical Pipe	-	283 l.f.
38” x 60” Type III Reinforced Concrete Elliptical Pipe	-	311 l.f.
Flared End Sections (Concrete)	-	3 ea.

Street Infrastructure (1.318 miles) (Construction Value = $832,506):

Wemyss Road	Station 0+49 to Station 6+64	615 l.f.
Lloyd Street	Station 0+00 to Station 9+42	942 l.f.
South Greenberry Lane	Station 0+00 to Station 7+40	740 l.f.
Ann Moore Street	Station 0+00 to Station 8+00	800 l.f.
Ridgely Boulevard	Station 2+50 to Station 12+00	950 l.f.
Ruth Way	Station 0+00 to Station 6+00	600 l.f.
Alley A	Station 0+00 to Station 5+00	500 l.f.
Alley B	Station 0+00 to Station 3+90	390 l.f.
Alley C	Station 0+00 to Station 2+23	223 l.f.
Alley D	Station 0+00 to Station 2+96	296 l.f.
Alley G	Station 2+00 to Station 3+96	196 l.f.
Alley H	Station 0+00 to Station 3+90	390 l.f.
Alley I	Station 0+00 to Station 3+90	390 l.f.

Exhibit B

Eden Hill Residential Phase 1



0 145 290 580 Feet

N

Legend

- Utility Relocation Area
- Parcel Lines

Fire Hydrants

- 1500 GPM
- 1000 - 1499 GPM
- 500 - 999 GPM
- Below 500 GPM

- Dead End
- Sanitary Manhole
- PS Pump Station
- Service Line
- Sanitary Force Main
- Reducer

- Service Connection
- Meter Pit
- Hydrant Valve
- Division Valve

- Curb Stop/Meter Pit
- Curb Stop/House
- Curb Stop
- Blow Off

Water Main

- 1"
- 2"
- 3"
- 4"
- 6"
- 8"
- 10"
- 12"
- 14"
- 16"
- 20"

Sanitary Sewer Line

- 10"
- 12"
- 15"
- 16"
- 18"
- 20"
- 21"
- 24"
- 27"
- 30"
- 35"
- 36"
- 4"
- 6"
- 8"

Date Printed: December 23, 2014
File: m:\gis_data\projects\tech_mxds
\jason_lyon_maps\caf_maps
\caf_eden_hill_phase_1
Department: Public Works GIS
City of Dover, Delaware

The Energy Authority, Inc.

Monthly Management Committee Update – September 2014

October 23, 2014

Prepared by:

Robert Trinnear
Client Services Manager
904.360.1309
rtrinnear@teainc.org

The Energy Authority®
The Strategic Partner for Public Power

The Energy Authority®
® The Strategic Partner for Public Power

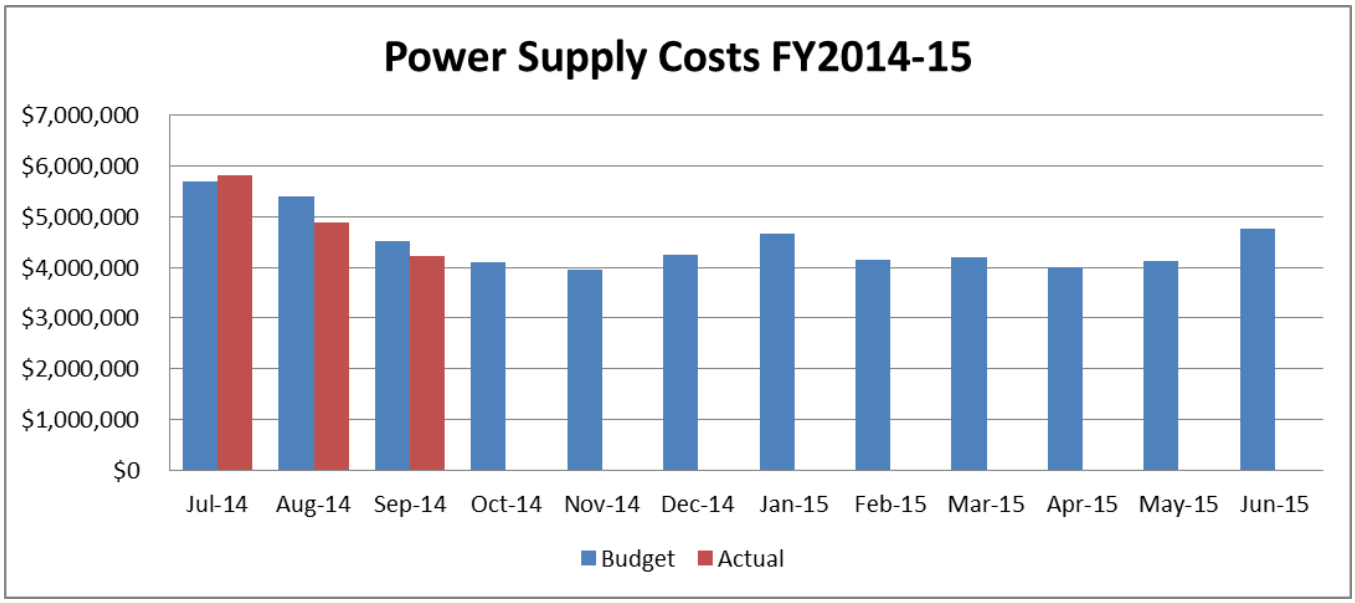
TABLE OF CONTENTS

I.	Executive Summary	1
II.	Budget Report	12
III.	Operations Management	15
IV.	Appendix	29

The Energy Authority®
® The Strategic Partner for Public Power

I. Executive Summary

A. Power Supply Summary:



Overall Power Supply costs were $304,262 under budget driven by lower prices and lower PJM fees.

Dover's budgeted cost for all power supply (capacity AND energy) was $70.63/MWh. The actual cost of all power supply (capacity AND energy) was $65.78/MWh.

The cost of energy alone was $44.44/MWh, versus a budgeted energy cost of $46.79.

Dover's hedge purchases totaled 52,080 MWh, which was 81% of the actual load. The budgeted hedge purchase totaled 38,352, which was 60% of the budgeted load.

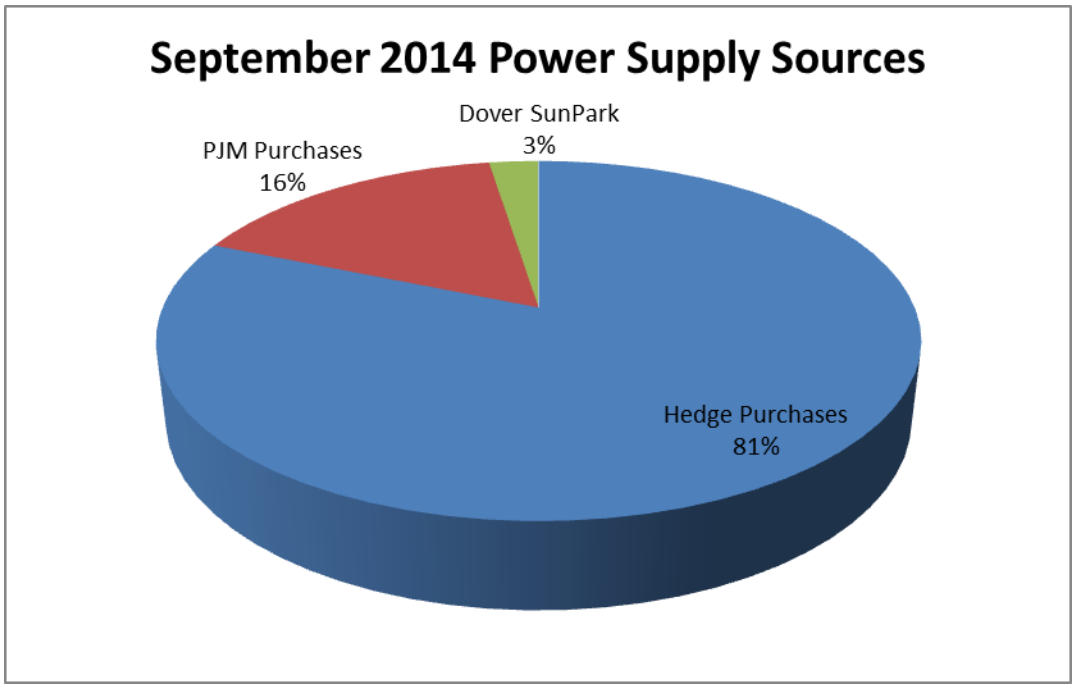
Dover's power purchases from hedge transactions totaled $2,398,418. Purchases from PJM (energy and fees) totaled $720,904. This number includes DA spot market energy charges of $572,474 and Reactive Service charges of $580.

Dover's total load was 64,099 MWh versus a forecasted load of 64,001 MWh.

Dover's planned energy purchase from the SunPark solar installation was 1,224 MWh. Dover's actual energy purchase from the SunPark installation was 1,603 MWh.

The Energy Authority®
® The Strategic Partner for Public Power

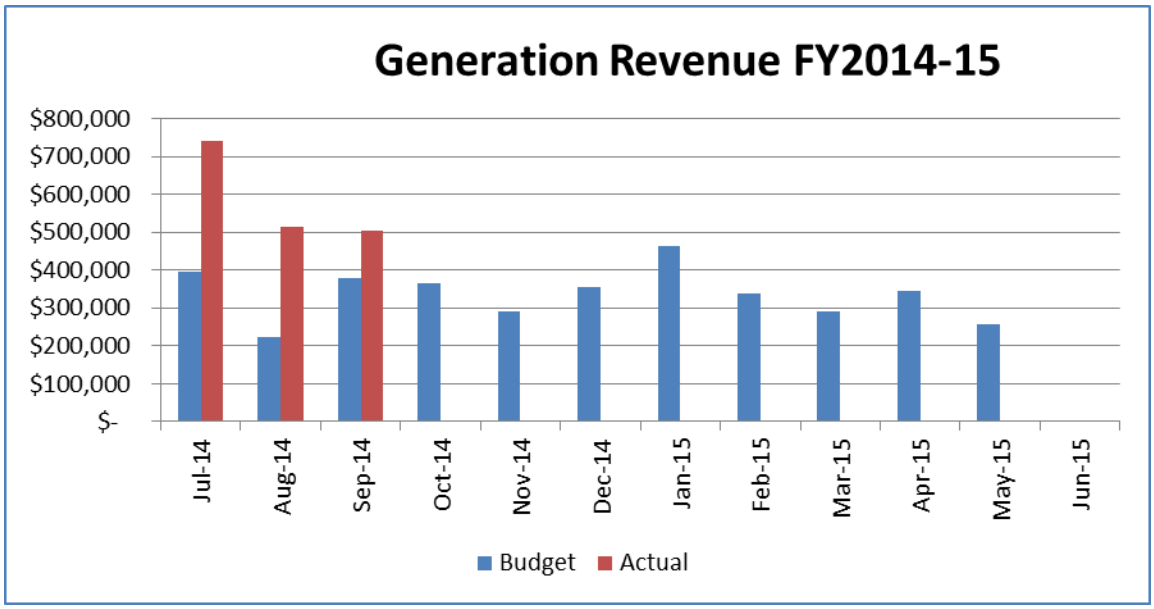
Supply Source Summary:



Supply Variance:

	Budget	Actual	Variance
Gross Load	64,001	64,099	(98)
Wholesale Load	62,777	62,496	281
Hedged Volume (MWh)	38,352	52,080	(13,728)
Unhedged Volume (MWh)	24,425	10,416	14,009
Dover SunPark Volume (MWh)	1,224	1,603	(379)
Renewable Energy Credits Volume	184	301	(117)
Hedged Cost ($/MWh)	$ 49.23	$ 46.05	$ 3.17
Unhedged Energy Cost ($/MWh)	$ 39.54	$ 25.40	$ 14.14
Solar Energy Cost ($/MWh)	$ 115.11	$ 115.97	$ (0.86)
Energy Costs ($/MWh)	**$46.79**	**$44.44**	**$2.35**
All-in Costs - Energy, Capacity and RECs ($/MWh)	**$70.63**	**$65.78**	**$4.86**

B. Generation Summary:



Dover generated 4,344 MWh in the month. Net generation revenue was $503,821 vs. a budget of $378,745.

The Energy Authority®
® The Strategic Partner for Public Power

Generation Breakdown:

City of Dover

Monthly Wholesale Generation

September, 2014

Net Generation
4344.42

All In Generation

PJM - Generation			
	Economic and Reliability Dispatch	$	379,805.13
	Generation Capacity Credit	$	702,347.40
	Black Start and Transmission Losses	$	54,200.90
Natural Gas & Oil Consumption			
	Purchases for Generation	$	(163,215.00)
	Natural Gas Transport	$	(30,436.09)
	Eastern Shore Cashout	$	1,193.30
	Oil Consumption	$	-

Production Margin

PJM - Generation			
	Economic and Reliability Dispatch	$	379,805.13
Natural Gas & Oil Consumption			
	Purchases for Generation	$	(163,215.00)
	Natural Gas Transport	$	(30,436.09)
	Eastern Shore Cashout	$	1,193.30
	Oil Consumption	$	-
Gross Production Margin		$	187,347.34
$/MWh Generation Production Gross Margin		$	43.12

C. Emissions Summary:

Emissions Allowance Summary through September 30, 2014

McKee Run3 and VanSant Unit 11 (Dover's two units covered by the Clean Air Interstate Rule or CAIR) operated during the month of August, so there were additional emissions during this period.

CAIR EMISSION ALLOWANCE SUMMARY				
Date	**Action**	**SO_2 Allowances**	**NO_x Allowances[1]**	
			Seasonal	**Annual**
1/1/09	2008 Carryover	3,240	0	0
1/1/09	2009 Allocation	2,723	53	80
2/1/10	2010 Allocation	2,039	50	78
1/1/11	2011 Allocation	1,988	49	78
4/1/11	2011 Reallocation		2	4
1/11/12	2012 Allocation	1,988	51	80
10/4/2012	2013 Allocation	1,988	49	76
	2014 Allocation	1,988	49	76
9/29/09	SO_2 Sales	(1,500)		
11/12/09	NO_x Ann. Sales			(45)
11/13/09	SO_2 Sales	(1,410)		
11/20/09	NO_x Seas. Sales		(25)	
12/31/09	2009 Emissions[2]	(1)	(6)	(13)
12/31/10	2010 Emissions	0	(54)	(54)
10/31/10	EPA Linearity Testing Req.		(68)	(68)
2011	2010 Deficit NO_x Purchases		53	22
Aug 2011	Revised 2010 ECMPS data		30	30
Nov 2011	NO_x Seas. Sales (DEMEC)		(1)	
12/31/11	2011 Emissions[2]	(1)	(32)	(36)
12/31/12	2012 Emissions[2]	(1)	(37)	(37)
Nov 2012	NO_x Seas. Sales (DEMEC)		(2)	
2/13/2013	NO_x Annual. Sales (DEMEC)			(3)
11/15/13	NO_x Annual Sales (DEMEC)		(5)	
12/31/13	2013 Emissions	(0)	(20)	(20)
8/31/14	**2014 CYTD Emissions**	**(1)**	**(36)**	**(44)**
REMAINING ALLOWANCES		**13,040**	**99**	**201**

On August 21, 2012, a three-judge panel of the U.S. District Court of Appeals (DCA) in Washington vacated EPA's Cross State Air Pollution Rule (CSAPR) which would have become effective on January 1, 2012. The DCA instructed EPA to continue

[1] Per CAIR, starting in 2009, NOx emissions are governed by a seasonal and annual program.
[2] Under CAIR, pre-CAIR SO2 allowances are retired at a rate of 2 allowances for each ton emitted. It is assumed that pre-CAIR allowances will be retired before CAIR allowances.

administering the Clean Air Interstate Rule (CAIR). EPA appealed the DCA ruling to the U.S. Supreme Court, which heard arguments on December 10th, 2013.

On April 29th, 2014, the U.S. Supreme Court overturned the DCA opinion; however it did not immediately reinstate CSAPR. It sent the rule back to the DCA for further action consistent with the Supreme Court's opinion. On June 26th, 2014, EPA requested the DCA to reinstate CSAPR, with Phase 1 compliance deadlines being changed by 3 years to 2015 and 2016, and Phase 2 compliance deadlines being changed to 2017. EPA is preparing "ministerial" revisions to CSPAR so that it conforms to certain issues raised by the DCA in its 2012 action. To date, the DCA has not acted on EPA's motion to lift the DCA's stay from 2012.

While Delaware is included in the CAIR footprint, it is not included in the CSAPR footprint. CAIR allowances cannot be used for CSAPR compliance, so Dover's CAIR allowances will become valueless when CSAPR is reinstated. The separate Clean Air Act acid rain deposition control program will remain in effect, however the CAIR provisions for SO_2 will also disappear for Delaware.

Market liquidity for CAIR allowances continues to be low, with few transactions occurring. The following table shows estimated values for Dover's banked allowances, based on settlement prices on the Intercontinental Exchange (ICE).

Mark Value for CAIR Allowances			
Commodity	**$/Ton ICE Settlement as of Oct. 17th, 2014**	**Tons**	**Market Value**
SO_2 Allowances (2009 & earlier)	$ 1.35	5,089	$ 6,870
SO_2 Allowances (2010-14)	$ 0.85	7,951	6,758
NO_x Allowances - Seasonal	$25.00	99	2,475
NO_x Allowances - Annual	$50.00[3]	201	10,050
TOTAL			**$26,153**

Regional Greenhouse Gas Initiative

The State of Delaware is a participant in the Regional Greenhouse Gas Initiative (RGGI). The City of Dover must comply with RGGI by surrendering carbon dioxide (CO_2) allowances pursuant to the State of Delaware's laws (Title 7, Chapter 60, Sub-Title II-A). Delaware adopted a combined emissions allowance allocation/auction mechanism for RGGI, in which 40% of CO_2 allowances were allocated to sources for 2009, declining by 8% per year so that by 2014, all CO_2 allowances are auctioned.

[3] Mid-market price from Evolution Markets 10/16/2014

Dover had more than a sufficient number of RGGI allowances allocated to it to cover its requirements through the first compliance period (calendar years 2009-2011). Any unused allowances are carried over ("banked") for subsequent years. The table below shows RGGI allowance allocations, deductions and the cumulative balance by year (column 8).

CO2 Allowance Summary (9/30/2014)							
1	2	3	4	5	6	7	8
CO_2 Allowance Vintage	CO_2 Allowances Sold YTD	CO_2 Allowances (Per Facility, Prior to Sale)		Allocated CO_2 Allowances	CO_2 Tons Emitted	Annual CO_2 Allowance Balance	Cumulative Balance
		McKee Run	***VanSant***				
2009	0	60,128	2,056	62,184	(5,796)	56,388	56,388
2010	0	48,102	1,645	49,747	(32,971)	16,776	73,164
2011	0	36,077	1,234	37,311	(17,763)	19,548	92,712
2012	0	27,058	925	27,983	(15,265)	12,718	105,430
2013	0	22,879	1,939	24,818[4]	(10,231)	14,587	120,017
2014	0	-0-	-0-	-0-	(25,426)	(25,426)	**94,591**

Dover no longer receives allocations of RGGI allowances (columns 3-5). The Cumulative Balance (column 8) – aka "Banked Allowances" can be utilized for generation in 2014 and future years. Note that the 2014 emissions through the end of August are larger than four out of the last five years.

Once the banked allowances have been fully utilized, Dover will be required to purchase RGGI allowances through the auctions or through over-the-counter markets. Assuming that Dover does not sell any banked allowances and produces 25,000 tons per year, it should be able to maintain a positive balance through around 2018.

Dover could elect to sell all or a portion of its banked allowances now and re-acquire allowances at a later date; however TEA is currently of the opinion that Dover will be better off retaining its banked allowances for use during future compliance years.

The most recent RGGI spot auction occurred on September 3rd, 2014; the auction cleared at $4.88/ton. The next auction will occur on December 3rd, 2014. RGGI futures settlement prices posted on Intercontinental Exchange (ICE) on September 19, 2014 ranged from $5.02 to $5.47/ton, depending settlement month and vintage. **Based on the September 19, 2014 ICE price for the December 2014 strip ($5.06/ton), the**

[4] Includes Q3 2013 allocations of 7,846.757 for McKee Run and 1,424.677 for VanSant.

estimated market value of Dover's existing 94,591 ton RGGI allowance bank is $478,630.

During the September 25, 2014 Management Committee meeting, Dover staff asked if it would be reasonable to begin purchases of additional RGGI allowances in anticipation of future needs because market prices are expected to increase in the future. This will be addressed in a separate presentation.

Renewable Energy Certificates

Dover owns two photovoltaic systems totaling 15 kW, consisting of (one 5 kW unit at the Utilities Administration Building and two 5 kW units at the McKee Run generating station. Dover also receives solar energy produced by the 10 MW Dover Sun Park which is owned by White Oak Solar Energy, LLC. In addition to the all of the physical energy produced by the Sun Park, Dover receives 15% of Sun Park's SRECS.

Dover participates in the Delaware Municipal Electric Corporation's (DEMEC) Renewable Portfolio Standard (RPS) for compliance with the State of Delaware's RPS laws applicable to municipal utilities. The first compliance period under DEMEC's RPS was the 12 months ending May 2014.

Through the end of August 2014, Dover had accumulated a total of 8,797 SRECS from these renewable energy resources. On October 3, 2014, TEA transferred 2,941 of Dover's SRECS to DEMEC for retirement in accordance with the RPS requirement for the first compliance period. These SRECS which were transferred to DEMEC were assigned a cost of $534,589.

While Delaware does periodically hold auctions for SRECs, these auctions are for size tiers N1 – N3, E1 and E2. The Dover Sun Park is in the N4 tier for very large facilities. State-wide carve outs for Tier 4 has been fully subscribed, so there is not a market for tier 4 SRECs in Delaware.

The nearest viable market for Dover's SRECs is Pennsylvania. Daily settlement prices from FlettExchange Environmental services (www.flettexchange.com) were used for 2011/12 through 2014/15 vintage allowances. The October 17, 2014 daily settlement prices for Pennsylvania SRECS are used in the table below.

SREC Vintage (June 1 – May 31)	Auction Clearing Price	SREC Balance	Market Value
2011/2012	$0	0	0
2012/2013	$23.00	2,172	49,956
2013/2014	$30.00	2,701	81,030
2014/2015	$30.00	983	29,490
TOTAL		**5,856**	**$160,476**

TEA continues to recommend to Dover to retain these allowances for compliance with its Renewable Portfolio Standard (RPS) which DEMEC is working on.

Dover's annual SREC acquisition for the last three years is slightly below the 2013/14 compliance requirements. Compliance requirements will increase in future years. Dover will need to determine how it plans to comply with these increasing SREC requirements in the future before its existing bank of allowances is depleted.

During the September 25, 2014 Management Committee meeting, Dover staff asked for an overview of SREC prices. This will be addressed in a separate presentation.

D. Operations Management Summary:

During the month of September there were no reportable or lost time accidents or injuries. The facility has now gone 1,447 days without an OSHA recordable accident and 1,447 consecutive days without a lost time reportable accident. There were no Environmental Notices of Violations or exceedances issued. There were three near misses reported. McKee Run Unit 3 was dispatched 8 times and Unit 11 was dispatched once by PJM. On September 29, the planned outages started for all units and are scheduled until December 1, 2014.

Monthly Budget Variance – The actual expenses attributable to O&M of the two sites for the month of September were $440,075 against a budgeted amount of $362,631 for an unfavorable variance of $77,444 or 21.36%. The principal reasons for the unfavorable variance were due to the timing of payroll invoices, higher water and water treatment chemical costs, and higher electricity costs associated with higher operating hours.

E. Risk Management Summary:

Forward power prices in PJM are slightly lower than last month.

The current projected cost of service is below:

PY	Hedge Ratio	Blended Cost ($/MWh)	Monthly Change ($/MWh)
2014-15	80%	$ 46.72	$ (0.18)
2015-16	70%	$ 44.13	$ (0.01)
2016-17	33%	$ 42.91	$ (0.20)
2017-18	31%	$ 43.60	$ (0.43)
2018-19	15%	$ 44.14	$ (0.74)

The Energy Authority®
® The Strategic Partner for Public Power

II. Budget Report

	Budget Sep-14	Actual Sep-14	Variance
Gross Load	**64,001**	**64,099**	**(98)**
Power Supply			
Hedged Energy	$1,887,922	$2,398,418	($510,496)
PJM - Energy, Congestion & Losses	$965,809	$264,581	$701,228
PJM - ARR, Transmission and Fees	$607,555	$456,324	$151,232
Dover SUN Park Energy	$140,900	$185,885	($44,985)
Dover SUN Park RECs	$38,555	$42,307	($3,752)
Management Fees	$83,000	$83,000	$0
PJM - Capacity UCAP Obligated Purchased	$796,901	$785,866	$11,035
Subtotal - Power Supply	**$4,520,642**	**$4,216,380**	**$304,262**
Power Generation O&M			
Plant O&M	$362,631	$440,075	($77,444)
Subtotal Generation O&M	**$362,631**	**$440,075**	**($77,444)**
Power Generation Production Margin			
PJM - Economic and reliability dispatch	$0	$ (379,805)	$379,805
Fixed Fuel and Transport Charges	$0	$ 192,458	($192,458)
Subtotal Generation Production Margin	**$0**	**$ (187,347)**	**$187,347**
Power Generation Non-Production Revenue			
PJM - Generation Capacity Credit	($716,626)	$ (702,347.40)	($14,279)
Capacity Replacement Charge	$10,800	$ -	$10,800
PJM - Black Start & Transmission Losses	($35,550)	$ (54,200.90)	$18,651
Subtotal - Non-Production Revenue	**($741,376)**	**($756,548)**	**$15,172**
SubTotal - All Generation	**($378,745)**	**($503,821)**	**$125,076**
Total - Utilities Cost	**$4,141,897**	**$3,712,559**	**$429,338**
Unit Costs			
Total - Power Supply	$70.63	$65.78	$4.86
Total - Power Generation	($5.92)	($7.86)	$1.94
Final Cost of Service to City of Dover Ratepayers	$64.72	$57.92	$6.80

Variance Analysis:

Power Supply

- Dover consumed 98 MWh more than forecast for the month.
- PJM transmission and fees were lower than expected with minimal monthly reactive services charges.
- This resulted in a net power supply cost of $65.78/MWh, $4.86/MWh below budget.
- For the month, the city realized a favorable variance of $304,362 for power supply vs. the monthly budget.
- Dover Sun Park generated 379 MWh more than forecast.

Generation

- Power generation had a favorable budget variance of $125,076.
- Plant O&M expenses had an unfavorable budget variance of $77,444 for the month.

The Energy Authority®
® The Strategic Partner for Public Power

	Budget YTD	Actual YTD	Variance
Gross Load	**217,036**	**208,235**	**8,801**
Power Supply			
Hedged Energy	$6,458,775	$7,980,302	($1,521,527)
PJM - Energy, Congestion & Losses	$3,762,419	$2,134,621	$1,627,798
PJM - ARR, Transmission and Fees	$2,010,197	$1,394,609	$615,588
Dover SUN Park Energy	$566,145	$633,004	($66,859)
Dover SUN Park RECs	$130,730	$138,676	($7,946)
Management Fees	$249,000	$249,000	$0
PJM - Capacity UCAP Obligated Purchased	$2,443,830	$2,394,438	$49,392
Subtotal - Power Supply	**$15,621,096**	**$14,924,650**	**$696,446**
Power Generation O&M			
Plant O&M	$1,694,993	$1,510,514	$184,479
Subtotal Generation O&M	**$1,694,993**	**$1,510,514**	**$184,479**
Power Generation Production Margin			
PJM - Economic and reliability dispatch	($1,339,680)	($1,946,803)	$607,123
Fixed Fuel and Transport Charges	$966,800	$991,866	($25,066)
Subtotal Generation Production Margin	**($372,880)**	**($954,937)**	**$582,057**
Power Generation Non-Production Revenue			
PJM - Generation Capacity Credit	($2,197,656)	($2,144,923)	($52,733)
Capacity Replacement Charge	$33,120	$0	$33,120
PJM - Black Start & Transmission Losses	($156,675)	($168,048)	$11,373
Subtotal - Non-Production Revenue	**($2,321,211)**	**($2,312,971)**	**($8,240)**
SubTotal - All Generation	**($999,098)**	**($1,757,393)**	**$758,295**
Total - Utilities Cost	**$14,621,998**	**$13,167,257**	**$1,454,741**
Unit Costs			
Total - Power Supply	$71.97	$71.67	$0.30
Total - Power Generation	($4.60)	($8.44)	$3.84
Final Cost of Service to City of Dover Ratepayers	$67.37	$63.23	$4.14

The Energy Authority®
® The Strategic Partner for Public Power

Operations Management

NAES Corporation
Dover, Delaware
September 2014
Monthly Report



Jeff Luff, Operator II, is congratulated by Lance Berryhill, Operations Supervisor, for successfully achieving PJM System Operator Certification.

The Energy Authority®
® The Strategic Partner for Public Power

Table of Contents

1.0 Environmental, Health, and Safety

2.0 Financial

3.0 Operations

4.0 Maintenance

5.0 CIP

6.0 General Plant Information

7.0 Summary of NAES Performance

1.0 Environmental, Health and Safety:

During the month of September, there were no restricted work days or lost time accidents. The facility has now gone 3 years, 11 months and 16 days (1,447 days) through September, 2014 without an OSHA Recordable Accident or a Lost Time reportable accident. The facility will achieve the milestone of 4 years of being Accident-free on October 14, 2014.

There were three Near Misses reported in September at McKee Run.

The first Near Miss occurred when an Operator was asked to open a boiler blow down valve adjacent to the Neutralization Pit. The insulated boiler blow down pipeline is located approximately six feet above grade and runs parallel to the ground surface. The boiler blow down valve is located atop of the pipe and the Operator needed a ladder to gain access to the valve. The Operator selected a four foot ladder to help him gain access to the valve. The Operator stepped on the ladder and placed his right hand on the insulated pipe for stability before he donned work gloves and turned the valve. Upon putting his bare hand on the metal-sheathed pipe run for stability, he felt the sharp metallic edge from a metal insulation banding strap clip on the back side of the pipe sheathing. The Operator immediately retracted his hand and no scrapes or injuries were sustained.

The second Near Miss occurred during the removal of a 4160 volt breaker. Two ICE Technicians attempted to remove the breaker from its cubicle. Upon removing the breaker from the cubicle, the wheels of the breaker cart became restricted because of the uneven flooring. Additional effort was needed to move and adjust the breaker into a safe and stable position. No injuries occurred however there existed a possibility of a strained back. A product is being researched that will be installed to smooth out the area.

The third Near Miss occurred when the plant was in the process of receiving tanker truck deliveries as part of a bulk purchase to replenish the plant's supply of red dyed diesel daily. A routine inspection was conducted to see how the progress at the fuel oil off-loading area. At the time of the Compliance Coordinator's arrival, the fuel oil delivery driver and two NAES Operators had just completed off-loading a fuel oil tanker truck, had shut the unloading pumps off, had put the hoses put away and were having a discussion.

The Compliance Coordinator immediately noticed one of the employees smoking a lit cigarette next to the off-loading manifold. As he was approached, the employee extinguished the lit cigarette. Follow-up actions to this event included refresher training by the employee in plant safety procedures and additional signage was posted to warn/remind anyone that smoking is prohibited in this area. Additionally, safety policies will be reviewed and updated to be more prescriptive in addressing smoking limitations and designating smoking areas.

The plant received no Notice of Violations (NOVs) during the month. The September DMR was submitted for the McKee Run site with no NPDES exceedences. There were no opacity deviations from any unit in September.

DNREC performed a Partial Compliance Evaluation (PCE) audit for the McKee Run and VanSant Generation Stations in August 2014 as part of the Title V air permit. DNREC indicated they would have liked to have visually observed VanSant's combustion turbine run and collect a No. 2 fuel oil sample, regardless if the facility is operating on fuel oil. To date, we have received verbal confirmation of passing the audit with no issues; however, a representative fuel oil sample was the last item before a written final notice is issued. Late in the month, the plant received notification from the DNREC via email that a fuel oil sample from VanSant will not be necessary to complete the 2014 PCE audit.

During the month of September, there were fifteen IWW discharges to the Kent County Sewer. The monthly sampling occurred on September 17, 2014. The laboratory analytical data indicated no exceedences. The September SIU Report was submitted to Kent County.

McKee Run began the Unit #3 cooling tower restoration project on September 29, 2014. In the month of September, there were two roll-offs of cooling tower plastic debris totaling 6.84 tons sent to the Sandtown Landfill. Wood debris generated as part of the restoration work was sampled and will be analyzed according to DNREC and Sandtown Landfill requirements to determine how the material will disposed. Wood disposal will begin once the analytical data is returned, submitted to the DSWA and approved by the landfill for disposal.

Environmental, Health, and Safety Statistics		
	Month (September)	Fiscal Year to Date (7/1/14-6/30/15)
NOVs	0	0
Opacity Deviations	0	1
Environmental Deviations	0	0
OSHA Recordable	0	0
OSHA LTA's	0	0
First Aid cases	0	0
Restricted Workday Accident	0	0
Near Miss	3	8
Man Hours Worked	4,533	66,797.25
Date last OSHA Recordable		10/14/10
Date last Lost Time Accident		10/14/10
Days since last OSHA recordable		1,447
Days since last Lost Time Accident		1,447

The Energy Authority®
® The Strategic Partner for Public Power

Emissions (NO_x, CO_2 & SO_2) All data thru 9/30/14

NOx Summary – Ozone Season (May-Sep) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	1.2	1.0	35.8	1.0	33.1
2013	1.1	1.7	19.3	1.3	23.4
2014	0.4	0.6	35.0	0.8	36.8
NOx Summary - Year (Jan-Dec) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	1.2	1.1	35.8	1.0	36.9
2013	1.1	1.7	19.4	1.3	23.5
2014	0.8	1.1	39.8	3.7	45.4
SO_2 Summary - Year (Jan-Dec) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	0.0	0.0	0.0	0.1	0.1
2013	0.0	0.0	0.0	0.2	0.2
2014	0.0	0.0	0.4	0.6	1.0

CAIR NOx Allowances Summary*

CAIR NOx Allowance Vintage	CAIR NOx Allowances Sold YTD	NOx Allowances Available (Per Facility, Prior to Sale)		Total NOx Tons Emitted (Yr/ Season) McKee Run - VanSant	CAIR NOx Allowances Purchased YTD	NOx Allowance Balance	
		McKee Run (Yr/Season)	*VanSant (Yr/Season)*			*McKee Run* (Yr/Season)*	*VanSant* (Yr/Season)*
2013 and earlier						160/78	9/8
2014	0	71/46	5/3	40/35 - 4/1	0/0 – 0/0	31/11	1/2
				Total NOx Allowance Balance		**191/89**	**10/10**

***Note – Emissions allowances are deducted according to oldest vintage first or unless otherwise directed.**
****Note – The facility transferred Ozone Season allowances to a third party.**

SO_2 Allowances Summary

SO_2 Allowance Vintage	SO_2 Allowances Sold - YTD	SO_2 Allowances Available (Per Unit, Prior to Sale & Reconciliation)		Total SO_2 Tons Emitted– U3 and U11 YTD	SO_2 Allowances Balance*
		Unit #3	*Unit #11*		
2013 and earlier	0	10,365	690	2	11,053
2014	0	1850	138	1	1,987
			Total SO2 Allowance Balance		**13,040**

***Note – Emissions allowances are deducted according to oldest vintage first, unless otherwise directed.**

CO2 Allowances Summary					
CO2 Allowance Vintage	**CO2 Allowances Sold YTD**	**CO2 Allowances Available (Per Facility, Prior to Sale)**		**Total CO2 Tons Emitted**	**CO2 Allowance Balance**
		McKee Run	***VanSant***		
2013 and earlier	0	194,244	7,799	82,026	120,017
2014	0	0	0	25,426	25,426
			Total CO2 Allowance Balance		**94591**

***Note: CO2 allowance values are provided by the RGGI CO2 Allowance Tracking System.**
Note: All emissions (NOx, SO2 and CO2) totals for 2013 are unofficial.
#Note: Additional CO2 Emission Values were added to 2013 balances by RGGI COATS- 7,846.757 for McKee Run and 1,424.677 for VanSant

2.0 Financial

Financial – Current Month

Month – September			
	Actual	Budget	Variance
Personnel	259,901	247,700	(12,201)
Materials & Supplies	57,204	21,850	(35,354)
Administrative Expenses	122,970	93,081	(29,889)
Total	**$440,075**	**$362,631**	**($77,444)**

Financial – Fiscal Year to Date

Number of Months – 3			
	Actual	Budget	Variance
Personnel	696,013	864,800	168,787
Materials & Supplies	133,617	111,950	(21,667)
Administrative Expenses	680,883	718,243	37,360
Total	**$1,510,513**	**$1,694,993**	**$184,480**

2.1 Variance analysis:

The actual expenses for the month of September are $440,075 against a budgeted amount of $362,631 for an unfavorable variance of $77,444 or 21.36%. The variance was due to the following:

PERSONNEL EXPENSES – An unfavorable monthly variance of $12,201 was due to the timing of payroll invoices. As a result, this impacted three (3) labor accounts – Straight Time, Overtime, and Labor Burdens.

MATERIALS AND SUPPLIES EXPENSES- An unfavorable monthly variance of $35,354 was due to higher than budgeted water costs and purchase of water treatment chemicals as a result of higher operating hours than was originally budgeted/forecast.

ADMINISTRATIVE EXPENSES – An unfavorable monthly variance of $16,475 due to higher than anticipated electricity costs as a result of higher operating hours than was originally budgeted/forecast.

The forecasted expenses for this fiscal year are $6,071,621 expensed versus an approved budget of $6,141,100 thereby realizing a 98.8 % expenditure rate.

3.0 Operations

Unit Operations / Outages / Trips: Unit 3 was dispatched eight times and Unit 11 once by PJM in the month of September. Units 1 and 2 were not dispatched for the month of September. On September 29, the planned outage was started on all units and is scheduled until December 1, 2014.

Month September 2014							
		McKee Unit 1	McKee Unit 2	McKee Unit 3	MRS Facility	VanSant Unit 11	Total All Units
Capacity	MW	17	17	102	136	39	175
On Line Hours	Hrs	0.0	0.0	84.298	84.298	3.633	87.931
Starts	#	0	0	8	8	1	9
Gross Generation	MWh	0.0	0.0	4,662.226	4,662.226	115.084	4,777.310
Net Generation	MWh	0.0	0.0	4,246.891	4,246.891	114.997	4,361.888
Total Auxiliaries	MWh	0.0	0.0	697.632	697.632	1.502	699.134
Auxiliaries purchased	MWh	26.524	26.524	282.297	282.297	1.415	283.712
Fuel Gas Used	MMBTU	0.0	0.0	49,303.867	49,303.867	1,524.712	50,828.579
Fuel Oil Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	Gallons	0.0	0.0	0.0	0.0	0.0	0.0
Total Fuel	MMBTU	0.0	0.0	49,303.867	49,303.867	1,524.712	50,828.579
Net Heat Rate	BTU/KWh	0.0	0.0	11.609	11.609	13.259	12.434
Unit Trips	#	0	0	0	0	0	0
Capacity Factor	%	0.0	0.0	5.78	3.99	0.40	3.18
Availability Factor	%	94.31	94.31	94.31	94.31	94.31	94.31
Commercial Unavailability (CU)	%	0.0	0.0	0.0	0.0	0.0	0.0
Planned Outage Hours	Hours	41.000	41.000	41.000	123.000	41.000	164.000
Maintenance Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Forced Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Reserve Shutdown Hours	Hours	679.000	679.000	594.702	1,952.702	675.367	2,628.069
HW Boiler Gas Usage	MMBTU				0.0		0.0
Pilot Gas Usage	MMBTU	0.0	0.0		0.0		0.0

 # Note: Does not include HWB or Pilot Gas. Fuel usage numbers are taken from fuel flow instruments.

The Energy Authority®
® The Strategic Partner for Public Power

2014-2015 Fiscal Year-to-Date 3 Month							
		McKee Unit 1	McKee Unit 2	McKee Unit 3	MRS Facility	VanSant Unit 11	Total All Units
Capacity	MW	17	17	102	136	39	175
On Line Hours	Hrs	30.966	35.134	433.682	499.782	17.350	517.132
Starts	#	3	5	33	41	5	46
Gross Generation	MWh	261.694	252.941	22,525.426	23,040.061	578.081	23,618.142
Net Generation	MWh	247.853	233.930	20,511.856	20,993.639	567.702	21,561.341
Total Auxiliaries	MWh	97.170	102.340	2,968.338	3,167.848	3.837	3,171.685
Auxiliaries purchased	MWh	83.329	83.329	954.768	1,121.426	3.458	1,124.884
Fuel Gas Used	MMBTU	3,780.381	3,255.417	238,464.654	245,500.452	7,544.726	253,045.178
Fuel Oil Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	Gallons	0.0	0.0	0.0	0.0	0.0	0.0
Total Fuel	MMBTU	3,780.381	3,255.417	238,464.654	245,500.452	7,544.726	253,045.178
Net Heat Rate	BTU/KWh	15.253	13.916	11.825	13.664	13.278	13.471
Unit Trips	#	1	3	0.0	4	1	5
Capacity Factor	%	0.66	0.62	9.11	6.88	0.66	5.49
Availability Factor	%	98.14	98.14	97.80	98.03	98.14	98.06
Commercial Unavailability (CU)	%	0.0	0.0	0.35	0.11	0.0	0.09
Planned Outage Hours	Hours	41.000	41.000	41.000	123.000	41.000	164.000
Maintenance Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Forced Outage Hours	Hours	0.0	0.0	7.667	7.667	0.0	7.667
Reserve Shutdown Hours	Hours	2,136.034	2,131.866	1,725.651	5,993.551	2,149.650	8,143.201
HW Boiler Gas Usage	MMBTU				0.0		0.0
Pilot Gas Usage	MMBTU	527.631	527.631		1,055.263		1,055.263

Fuel Oil Inventory							
	Monthly Inventory (Start)	Monthly Inventory (End)	Fuel Purchases (Month)	Monthly Inventory (Change)	FY 14-15 Inventory (Start)	Fuel Purchases (FYTD)	FY 14-15 Inventory (Change)
McKee Run (#2 Fuel Oil)	445,913	647,719	200,476	201,806	452,963	200,476	194,756
VanSant (#2 Fuel Oil)	73,319	124,053	52,066	50,734	73,572	52,066	50,481

VanSant Lifetime through September 2014			
	Actual Starts	Factored Starts	Fired Hours
VanSant	1372	2,349.75	4,333.90
Since HGP - Dec 2004	261	682.05	950.32

Note: As measured by tank level instruments. Tank levels may change due to oil temperature.

Team Report:

The Operations staff continues to support maintenance activities during the planned outage by serving as Confined Space Attendants for confined space areas as well as other support tasks. They assisted in the natural gas line purge on Unit 3 in preparation of the installation of the pipe blank and in the purge on Units 1 and 2 natural gas lines. The Operations staff has also supported the outage by performing various LO/TO tasks needed to test or place equipment in or out or service.
Operations personnel continue to support maintenance by working on Preventative Maintenance (PM) work orders and other work orders that they have the skills to successfully complete the task. The Operations Department continues to utilize the Day Shift Workers in both the Operations and Maintenance areas to help in maintaining the plant.

Capacity Testing – FY 2014-2015

Summer 2014 (June 1- Aug 31)			**Winter 2014-2015 (Dec 1- Feb 28)**		
Unit	Rated Net Capability (MW)	Reported Net Capability (MW)	Unit	Rated Net Capability (MW)	Reported Net Capability (MW)
1	17	17.4	1	17	17*
2	17	17.5	2	17	17*
3	102	103.99	3	102	102*
11	39	39.8#	11	39	39*
Total	175	175	Total	175	175

Note: * Denotes Unit is qualified for the PJM Winter Demonstration Period Exemption Program.
Note: # Depicts Net Corrected Capacity for Ambient Air Conditions – VanSant Unit only

4.0 Maintenance

During the month of September, the Plant Maintenance staff continued addressing the backlog of work orders. There were forty-six work orders issued with eighty-four work orders being completed during the month. No safety work orders were entered into the plant's Computerized Maintenance Management System (MP2) during the month. The table below summarizes the monthly work order activities.

Work Order Report

September - 2014

Priority #	Outstanding From Previous Month	Issued This Month	Completed This Month	Outstanding at the end of the month
1	45	1	26	20
2	57	5	10	52
3	67	4	16	55
4	6	0	1	5
5	13	1	1	13
SW1	0	0	0	0
SW2	0	0	0	0
SW3	0	0	0	0
SW4	0	0	0	0
SW5	0	0	0	0
PM	62	35	30	67
EM	0	0	0	0
Totals	250	46	84	212

Note: PM Work Orders are included in the priority totals

Notable activities during the month include:

The NAES Operations, Maintenance and IC&E Staff completed the clean out of Unit 3 cooling tower cold water basin. The basin was cleaned as part of the cooling tower project for the fall outage. This clean out ensures that the proper water quality is achieved in the cooling tower and that all construction debris will be able to be removed prior to the tower being placed back into service.

The NAES IC&E staff discovered a voltage imbalance while conducting the monthly battery inspection at VanSant Generating Station. They discovered that a position limit switch on the gas purge valve had failed. They replaced the switch and the voltage imbalance issue was resolved.

The NAES Maintenance Staff and Carey's Diesel replaced all of the injectors in the starting diesel engine for the gas turbine at the VanSant Generating Station. This was completed to improve the performance of the diesel engine and will help with the start-up ramp rate of the unit.

The NAES IC&E Staff installed a new flow meter on TG-3 station which controls Unit 3 Cooling Tower blowdown. The new flow meter equipment is more reliable and the previous one and will ensure that proper blow down rates are achieved.

5.0 Capital Improvement Projects (CIP)

Project Number	Description	Update
EG1212	Unit 3 Turbine Repairs	Progress: All work planned is now complete. Follow-up activities include contacting suppliers for the replacement of the damaged rotor expansion instrumentation. This equipment is obsolete and will be replaced with current technology. Replacement of other turbine supervisory instrumentation will also be investigated. High vibration experienced during hot starts will require an additional balancing. Plant staff is collecting data that will help determine where and how much balance weight will need to be installed in the next outage. Schedule: Continuing to pursue the replacement rotor expansion instrumentation and evaluate balancing of turbine-generator for Spring 2014 Outage.
EG1402	Unit #3 Cooling Tower Repairs	Progress: Pre-job meeting held with contractor in preparation of September 29 start. Manpower arrived on September 29 and began demolition of old material in fill section of tower. Schedule: Demolition activities will continue and once complete, repairs will begin to be made to fill area, hot water basin and other miscellaneous repair activities.
EG1406	McKee Run HEP Pipe Repairs	Progress: The recently completed hanger adjustments were checked with the unit in the hot (running) position. Minor adjustments are needed on several hangers and will attempt to complete in the coming months. Future operations should provide an opportunity to check the adjustments. Work for Fall 2014 work was awarded. Contractor to be onsite in mid-October. Schedule: One section of pipe is scheduled for replacement is included as part of the scope for the fall of 2014. This work has been awarded and will commence in early October.
EG1407	Metering System Upgrades	Progress: Work scope is still being developed for an RFP. COD staff is continuing their efforts to remake the communication link with Cartanza. Schedule: Work activities are moving forward. Working with COD staff to finalize RFP documents for release in October period.
EG1416	VanSant Capacity Increase	Progress: Plant received the construction permit from the DNREC and will continue with installation plans. Schedule: Equipment skids are scheduled to arrive in early October and foundations will be poured in the same time period. Other miscellaneous material are on order including the MCC sections.
EG1503	Unit #3 Auxiliary System Component Replacement	Progress: Work scopes being developed for Fall 2014 and Spring 2015 Outages. Schedule: Fall 2014 work scopes were developed and will commence in October.
EG1504	Unit#3 Boiler System Repairs	Progress: Work scopes being developed for Fall 2014 and Spring 2015 Outages. Schedule: Fall 2014 work is scheduled for October start.
EG1505	VanSant Station Component	Progress: Work scope is being deferred until next FY. Schedule: Work scopes will continue to be developed for next fiscal year.

	Replacement	
EG1506	McKee Run/VanSant Safety Improvements	Progress: Work scopes developed and sent out for bids and award in early September. Bids were reviewed, evaluated and contracts awarded. Schedule: Work activities planned for completion in Fall 2014 outage and spring 2015.
EG1507	McKee Run Units #1-#2 Component Replacement	Progress: Project on Hold Schedule: Project on Hold
EG1508	McKee Run/VanSant Structural Preservation	Progress: Plant staff completed development of paint specifications and bid requests were to be received in mid-August. Schedule: Bids will be evaluated and determination made thereafter as to how to proceed. Work will need to be completed in warmer temperatures, spring 2015

6.0 General Plant Information

Jeff Luff. Operator II, successfully achieved PJM System Operator Certification when he passed the PJM exam.

Training:

Plant employees continue General Physics safety training and environmental courses to enhance their overall knowledge of permit and safety requirements. As the GPI courses are being completed the employee reviews the standard operating procedure (SMP) for the same topic they are training on to review NAES policy and score a minimum 80% on a quiz before they can complete the SMP.

Topics discussed during the monthly safety committee meeting were reviewed by the entire staff. The monthly safety topic was on “Compressed Air Injury”.

Calendar of Events	Date
Annual VanSant Black Start Test	TBD
Units 1, 2, 3 and 11 Fall Outage Starts	September 29, 2014
NOx Ozone Season Ends	September 30, 2014
Four Year Accident Free	October 14, 2014
NPDES Permit Expires (DNREC has Extended)	November 1, 2014
Winter Capacity Period	December 1, 2014 to February 28, 2015
NOx Emissions Reconciliation Due	March 1, 2015
SO2 Emissions Reconciliation Due	March 1, 2015
SARA III / Tier II Report Due	March 1, 2015
Units 1, 2, and 3 Spring Outage	TBD – Spring 2015
Unit 11 Spring Outage	TBD – Spring 2015
Air Emission Inventory	April 30, 2015
NOx Ozone Season Starts	May 1, 2015
PJM Summer Capacity Test Period	June 1, 2015 – August 31, 2015
FY 2014-201454 Budget Year Begins	July 1, 2015
Toxic Release Inventory (TRI) Annual Report	July 1, 2015
Semi-Annual Title V Certification Due	July 31, 2015

7.0 Summary of NAES Performance to Date

Measure	Plant Performance FY 2014-2015 Month		Year to Date		YTD Incentive	FY Maximum Incentive
Commercial Unavailability (CU)	0.00%		0.05%		$94,679	$96,875
Safety	0		0		$18,163	$18,163
Environmental	0		0		$18,163	$18,163
Capacity Tests Completed	Summer	Winter	Summer	Winter		
Unit 1	No	No	Yes	No	$3,634	$3,634
Unit 2	No	No	Yes	No	$3,634	$3,634
Unit 3	No	No	Yes	No	$21,797	$21,797
Unit 11	No	No	Yes	No	$7,266	$7,266
Total YTD Incentive %	98.7%		***Total YTD Incentive***		$167,335	$169,532

Note*: All units have successfully completed the Summer (FY 2014-2015) Testing for PJM and are now entered in the PJM Winter Capacity Test Exemption Program.

III. Appendix 1 – PJM Invoice Breakdown

			Gen	Load	Grand Total
480-8102-592-95-49	1610	Locational Reliability		$787,991.40	$787,991.40
	2630	Capacity Transfer Rights		$58.80	$58.80
	2661	Capacity Resource Deficiency		($2,184.60)	($2,184.60)
480-8102-592-95-49 Total				**$785,865.60**	**$785,865.60**
480-8102-592-95-50	1600	RPM Auction	$14,277.60		$14,277.60
	2600	RPM Auction	($716,625.00)		($716,625.00)
480-8102-592-95-50 Total			**($702,347.40)**		**($702,347.40)**
480-8102-592-95-90	1100	Network Integration Transmission Service		$406,720.80	$406,720.80
	1108	Transmission Enhancement		$71,646.00	$71,646.00
	1242	Day-Ahead Load Response Charge Allocation		$175.75	$175.75
	1243	Real-Time Load Response Charge Allocation		$364.58	$364.58
	1301	PJM Scheduling, System Control and Dispatch Service - Control Area Administration		$10,793.15	$10,793.15
	1303	PJM Scheduling, System Control and Dispatch Service - Market Support		$2,625.11	$2,625.11
	1304	PJM Scheduling, System Control and Dispatch Service - Regulation Market Administration		$89.23	$89.23
	1305	PJM Scheduling, System Control and Dispatch Service - Capacity Resource/Obligation Mgmt.		$921.90	$921.90
	1306	PJM Scheduling, System Control and Dispatch Service - Advanced Second Control Center		$1,847.86	$1,847.86
	1307	PJM Scheduling, System Control and Dispatch Service - Market Support Offset		($299.80)	($299.80)
	1308	PJM Scheduling, System Control and Dispatch Service Refund - Control Area Administration		($529.44)	($529.44)
	1310	PJM Scheduling, System Control and Dispatch Service Refund - Market Support		($132.16)	($132.16)
	1311	PJM Scheduling, System Control and Dispatch Service Refund - Regulation Market Administration		($5.42)	($5.42)
	1312	PJM Scheduling, System Control and Dispatch Service Refund - Capacity Resource/Obligation Mgmt.		($40.50)	($40.50)
	1313	PJM Settlement, Inc.		$299.80	$299.80
	1314	Market Monitoring Unit (MMU) Funding		$272.71	$272.71
	1315	FERC Annual Recovery		$4,478.04	$4,478.04
	1316	Organization of PJM States, Inc. (OPSI) Funding		$44.65	$44.65
	1317	North American Electric Reliability Corporation (NERC)		$682.56	$682.56
	1318	Reliability First Corporation (RFC)		$969.60	$969.60
	1320	Transmission Owner Scheduling, System Control and Dispatch Service		$4,739.55	$4,739.55
	1330	Reactive Supply and Voltage Control from Generation and Other Sources Service		$36,237.61	$36,237.61
	1340	Regulation and Frequency Response Service		$12,480.12	$12,480.12
	1360	Synchronized Reserve		$1,698.99	$1,698.99
	1362	Non-Synchronized Reserve		$114.03	$114.03
	1365	Day-ahead Scheduling Reserve		$2.54	$2.54
	1370	Day-ahead Operating Reserve		$8,129.70	$8,129.70
	1375	Balancing Operating Reserve		$6,010.37	$6,010.37
	1376	Balancing Operating Reserve for Load Response		($0.95)	($0.95)
	1378	Reactive Services		$580.34	$580.34
	1380	Black Start Service		$2,351.85	$2,351.85
	1730	Expansion Cost Recovery		$408.30	$408.30
	1911	Michigan - Ontario Interface Phase Angle Regulators		$198.73	$198.73
	1932	Generation Deactivation Refund		($696.77)	($696.77)
	2108	Transmission Enhancement		($63,193.77)	($63,193.77)
	2140	Non-Firm Point-to-Point Transmission Service		($360.62)	($360.62)
	2420	Load Reconciliation for Transmission Losses		$136.86	$136.86
	2510	Auction Revenue Rights		($53,391.00)	($53,391.00)
	2912	CT Lost Opportunity Cost Allocation		($46.80)	($46.80)
480-8102-592-95-90 Total				**$456,323.50**	**$456,323.50**
480-8102-592-95-91	1200	Day-ahead Spot Market Energy		$572,474.19	$572,474.19
	1205	Balancing Spot Market Energy		($143,582.22)	($143,582.22)
	1210	Day-ahead Transmission Congestion		($153,679.38)	($153,679.38)
	1215	Balancing Transmission Congestion		$19,816.66	$19,816.66
	1220	Day-ahead Transmission Losses		($11,833.24)	($11,833.24)
	1225	Balancing Transmission Losses		$892.19	$892.19
	1230	Inadvertent Interchange		$717.69	$717.69
	1245	Emergency Load Response		($60.13)	($60.13)
	1250	Meter Error Correction		($4,688.79)	($4,688.79)
	1400	Load Reconciliation for Spot Market Energy		($11,270.78)	($11,270.78)
	1410	Load Reconciliation for Transmission Congestion		($3,283.60)	($3,283.60)
	1420	Load Reconciliation for Transmission Losses		($686.11)	($686.11)
	1430	Load Reconciliation for Inadvertent Interchange		($3.56)	($3.56)
	1440	Load Reconciliation for PJM Scheduling, System Control and Dispatch Service		($62.84)	($62.84)
	1441	Load Reconciliation for PJM Scheduling, System Control and Dispatch Service Refund		$3.11	$3.11
	1442	Load Reconciliation for Schedule 9-6 - Advanced Second Control Center		($10.44)	($10.44)
	1444	Load Reconciliation for Market Monitoring Unit (MMU) Funding		($1.16)	($1.16)
	1445	Load Reconciliation for FERC Annual Recovery		($21.36)	($21.36)
	1446	Load Reconciliation for Organization of PJM States, Inc. (OPSI) Funding		($0.21)	($0.21)
	1447	Load Reconciliation for North American Electric Reliability Corporation (NERC)		($3.26)	($3.26)
	1448	Load Reconciliation for Reliability First Corporation (RFC)		($4.63)	($4.63)
	1450	Load Reconciliation for Transmission Owner Scheduling, System Control and Dispatch Service		($22.61)	($22.61)
	1460	Load Reconciliation for Regulation and Frequency Response Service		($64.22)	($64.22)
	1470	Load Reconciliation for Synchronized Reserve		($6.14)	($6.14)
	1472	Load Reconciliation for Non-Synchronized Reserve		($1.66)	($1.66)
	1475	Load Reconciliation for Day-ahead Scheduling Reserve		($0.04)	($0.04)
	1478	Load Reconciliation for Balancing Operating Reserve		($8.43)	($8.43)
	1480	Load Reconciliation for Synchronous Condensing		($0.03)	($0.03)
	1490	Load Reconciliation for Reactive Services		($28.48)	($28.48)
480-8102-592-95-91 Total				**$264,580.52**	**$264,580.52**
480-8102-592-95-92	1200	Day-ahead Spot Market Energy	($350,062.30)		($350,062.30)
	1205	Balancing Spot Market Energy	$90,922.79		$90,922.79
	1210	Day-ahead Transmission Congestion	($128,129.05)		($128,129.05)
	1215	Balancing Transmission Congestion	$6,388.81		$6,388.81
	1220	Day-ahead Transmission Losses	$3,896.26		$3,896.26
	1225	Balancing Transmission Losses	$1,487.79		$1,487.79
	2370	Day-ahead Operating Reserve	($867.70)		($867.70)
	2375	Balancing Operating Reserve	($3,441.73)		($3,441.73)
480-8102-592-95-92 Total			**($379,805.13)**		**($379,805.13)**
480-8102-592-95-93	2220	Transmission Losses	($24,703.49)		($24,703.49)
	2330	Reactive Supply and Voltage Control from Generation and Other Sources Service	($29,467.58)		($29,467.58)
	2360	Synchronized Reserve	($27.43)		($27.43)
	2365	Day-ahead Scheduling Reserve	($2.40)		($2.40)
480-8102-592-95-93 Total			**($54,200.90)**		**($54,200.90)**
Grand Total			**$ (1,136,353.43)**	**$ 1,506,769.62**	**$370,416.19**

The Energy Authority, Inc.

Monthly Management Committee Update – October 2014

November 20, 2014

Prepared by:

Robert Trinnear
Client Services Manager
904.360.1309
rtrinnear@teainc.org

The Energy Authority®
The Strategic Partner for Public Power

The Energy Authority®
® The Strategic Partner for Public Power

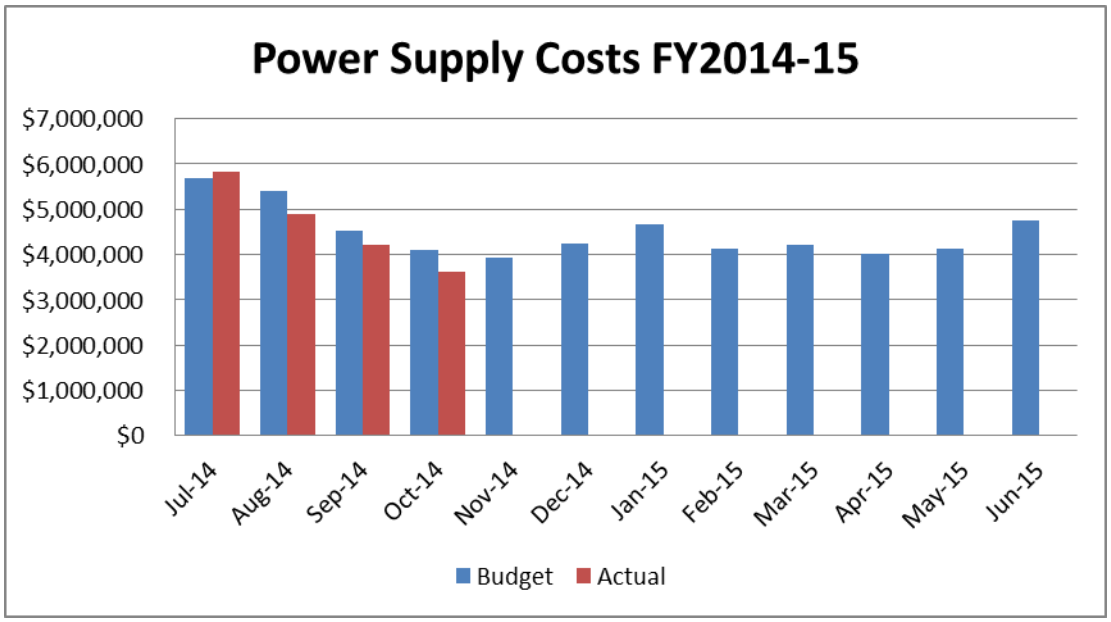
TABLE OF CONTENTS

I.	Executive Summary	1
II.	Budget Report	12
III.	Operations Management	15
IV.	Appendix	29

The Energy Authority®
® The Strategic Partner for Public Power

I. Executive Summary

A. Power Supply Summary:



Overall Power Supply costs were $482,097 under budget driven by lower prices and lower PJM fees.

Dover's budgeted cost for all power supply (capacity AND energy) was $71.31/MWh. The actual cost of all power supply (capacity AND energy) was $64.45/MWh.

The cost of energy alone was $39.60/MWh, versus a budgeted energy cost of $46.08.

Dover's hedge purchases totaled 45,320 MWh, which was 81% of the actual load. The budgeted hedge purchase totaled 36,328, which was 63% of the budgeted load.

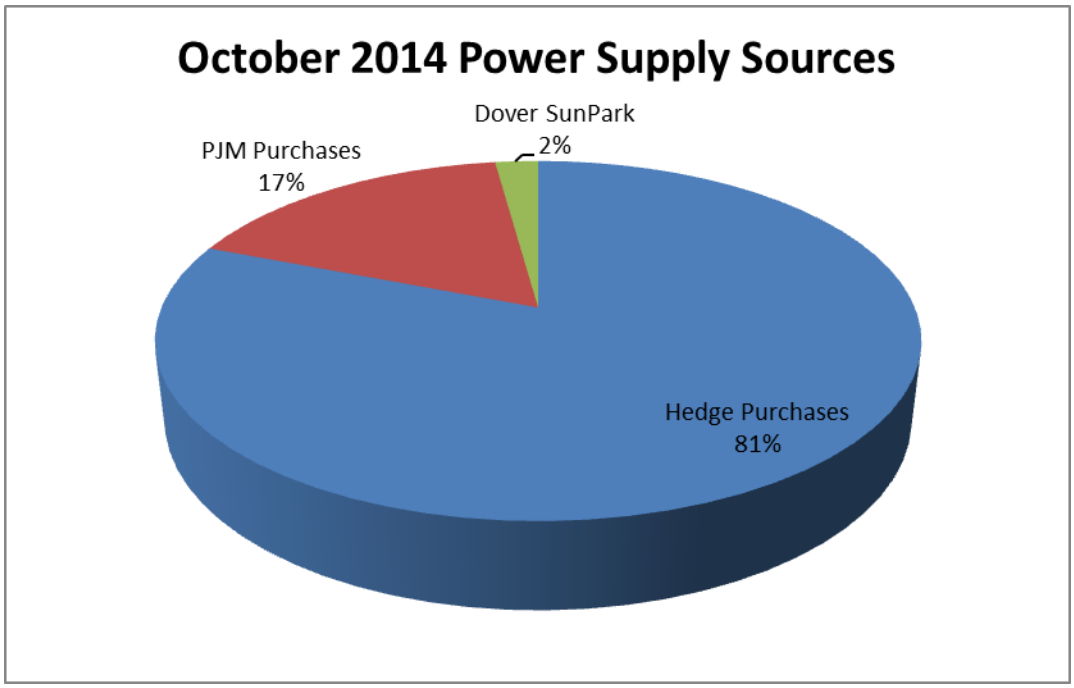
Dover's power purchases from hedge transactions totaled $1,962,527. Purchases from PJM (energy and fees) totaled $578,587. This number includes DA spot market energy charges of $454,086 and Reactive Service charges of $2,065.

Dover's total load was 56,013 MWh versus a forecasted load of 57,385 MWh.

Dover's planned energy purchase from the SunPark solar installation was 1,294 MWh. Dover's actual energy purchase from the SunPark installation was 1,213 MWh.

The Energy Authority®
® The Strategic Partner for Public Power

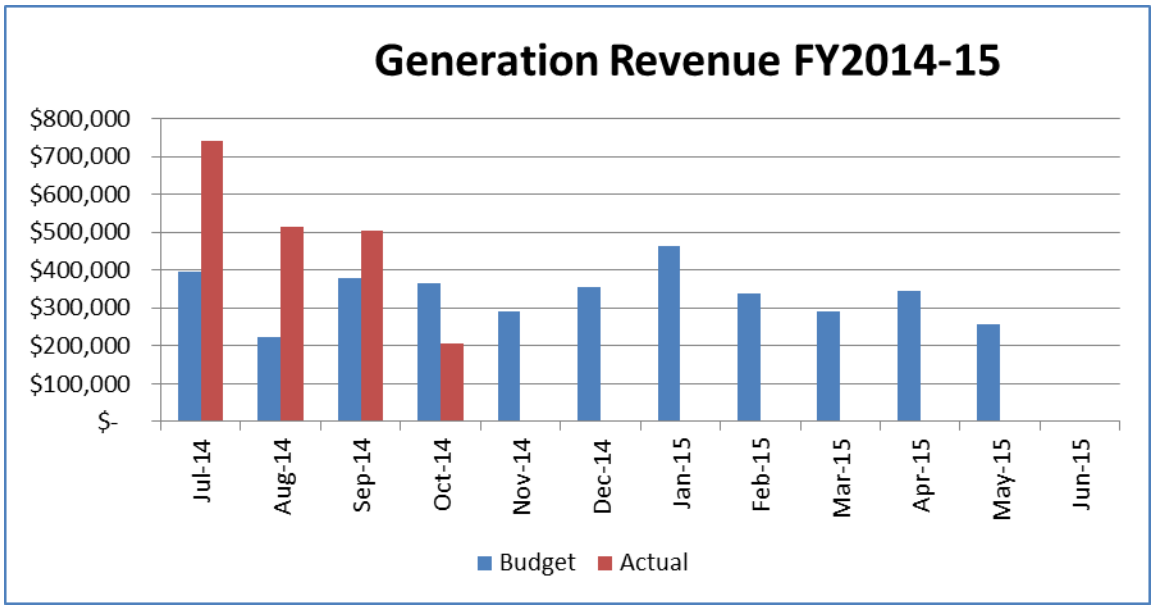
Supply Source Summary:



Supply Variance:

	Budget	Actual	Variance
Gross Load	57,385	56,013	1,372
Wholesale Load	56,091	54,800	1,291
Hedged Volume (MWh)	36,328	45,320	(8,992)
Unhedged Volume (MWh)	19,763	9,480	10,283
Dover SunPark Volume (MWh)	1,294	1,213	81
Renewable Energy Credits Volume	194	240	(46)
Hedged Cost ($/MWh)	$ 46.11	$ 43.30	$ 2.81
Unhedged Energy Cost ($/MWh)	$ 41.50	$ 12.11	$ 29.39
Solar Energy Cost ($/MWh)	$ 115.12	$ 115.97	$ (0.85)
Energy Costs ($/MWh)	**$46.08**	**$39.60**	**$6.48**
All-in Costs - Energy, Capacity and RECs ($/MWh)	**$71.31**	**$64.45**	**$6.86**

B. Generation Summary:



Dover generated 0 MWh in the month. Net generation revenue was $207,586 vs. a budget of $365,669.

The Energy Authority®
® The Strategic Partner for Public Power

Generation Breakdown:

City of Dover

Monthly Wholesale Generation

October, 2014

Net Generation
0.00

Production Margin

				Formula
PJM - Generation				
	Economic and Reliability Dispatch	$	-	A
Natural Gas & Oil Consumption				
	Purchases for Generation	$	-	
	Natural Gas Transport	$	-	
	Eastern Shore Cashout	$	-	
	Oil Consumption	$	-	
	Subtotal: Natural Gas & Oil Consumption	$	-	B
Gross Production Margin		$	-	C = (A + B)
$/MWh Generation Production Gross Margin		$	-	E = (C/D)
PJM - Capacity				
	Generation Capacity Credit	$	725,758.98	
	Black Start and Transmission Losses	$	53,152.88	
	Subtotal: PJM - Capacity	$	778,911.86	F
All in Generation Margin				
	All in Generation Margin Total	$	778,911.86	(G = C + F)

C. Emissions Summary:

Emissions Allowance Summary through October 31, 2014

McKee Run 3 and VanSant Unit 11 (Dover's two units covered by the Clean Air Interstate Rule or CAIR) were not operated during the month of October, so there were no additional emissions during this period.

CAIR EMISSION ALLOWANCE SUMMARY				
Date	**Action**	**SO_2 Allowances**	**NO_x Allowances[1]**	
			Seasonal	**Annual**
1/1/09	2008 Carryover	3,240	0	0
1/1/09	2009 Allocation	2,723	53	80
2/1/10	2010 Allocation	2,039	50	78
1/1/11	2011 Allocation	1,988	49	78
4/1/11	2011 Reallocation		2	4
1/11/12	2012 Allocation	1,988	51	80
10/4/2012	2013 Allocation	1,988	49	76
	2014 Allocation	1,988	49	76
9/29/09	SO_2 Sales	(1,500)		
11/12/09	NO_x Ann. Sales			(45)
11/13/09	SO_2 Sales	(1,410)		
11/20/09	NO_x Seas. Sales		(25)	
12/31/09	2009 Emissions[2]	(1)	(6)	(13)
12/31/10	2010 Emissions	0	(54)	(54)
10/31/10	EPA Linearity Testing Req.		(68)	(68)
2011	2010 Deficit NO_x Purchases		53	22
Aug 2011	Revised 2010 ECMPS data		30	30
Nov 2011	NO_x Seas. Sales (DEMEC)		(1)	
12/31/11	2011 Emissions[2]	(1)	(32)	(36)
12/31/12	2012 Emissions[2]	(1)	(37)	(37)
Nov 2012	NO_x Seas. Sales (DEMEC)		(2)	
2/13/2013	NO_x Annual. Sales (DEMEC)			(3)
11/15/13	NO_x Annual Sales (DEMEC)		(5)	
12/31/13	2013 Emissions	(0)	(20)	(20)
8/31/14	**2014 CYTD Emissions**	**(1)**	**(36)**	**(44)**
REMAINING ALLOWANCES		**13,040**	**99**	**201**

On August 21, 2012, a three-judge panel of the U.S. District Court of Appeals (DCA) in Washington vacated EPA's Cross State Air Pollution Rule (CSAPR) which would have become effective on January 1, 2012. The DCA instructed EPA to continue

[1] Per CAIR, starting in 2009, NOx emissions are governed by a seasonal and annual program.
[2] Under CAIR, pre-CAIR SO2 allowances are retired at a rate of 2 allowances for each ton emitted. It is assumed that pre-CAIR allowances will be retired before CAIR allowances.

administering the Clean Air Interstate Rule (CAIR). EPA appealed the DCA ruling to the U.S. Supreme Court, which heard arguments on December 10th, 2013.

On April 29th, 2014, the U.S. Supreme Court overturned the DCA opinion; however it did not immediately reinstate CSAPR. It sent the rule back to the DCA for further action consistent with the Supreme Court's opinion. On June 26th, 2014, EPA requested the DCA to reinstate CSAPR, with Phase 1 compliance deadlines being changed by 3 years to 2015 and 2016, and Phase 2 compliance deadlines being changed to 2017. EPA is preparing "ministerial" revisions to CSPAR so that it conforms to certain issues raised by the DCA in its 2012 action. The DCA lifted the stay on October 23rd, 2014 and scheduled a hearing on remaining issues for March 15, 2015.

While Delaware is included in the CAIR footprint, it is not included in the CSAPR footprint. CAIR allowances cannot be used for CSAPR compliance, so Dover's CAIR allowances will become valueless when CSAPR is reinstated. The separate Clean Air Act acid rain deposition control program will remain in effect, however the CAIR provisions for SO_2 will also disappear for Delaware.

Market liquidity for CAIR allowances continues to be low, with few transactions occurring. The following table shows estimated values for Dover's banked allowances, based on settlement prices on the Intercontinental Exchange (ICE).

Mark Value for CAIR Allowances			
Commodity	**$/Ton ICE Settlement as of Nov. 18th, 2014**	**Tons**	**Market Value**
SO_2 Allowances (2009 & earlier)	$ 1.35	5,089	$ 6,870
SO_2 Allowances (2010-12)	$ 0.85	3,975	3,379
SO_2 Allowances (2013-15)	$1.35	3,976	5,368
NO_x Allowances - Seasonal	$25.00[3]	99	2,475
NO_x Allowances - Annual	$65.00	201	13,065
TOTAL			**$31,157**

Regional Greenhouse Gas Initiative

The State of Delaware is a participant in the Regional Greenhouse Gas Initiative (RGGI). The City of Dover must comply with RGGI by surrendering carbon dioxide (CO_2) allowances pursuant to the State of Delaware's laws (Title 7, Chapter 60, Sub-Title II-A). Delaware adopted a combined emissions allowance allocation/auction mechanism for

[3] Value from previous month; no ICE or Broker price was available for seasonal NOx allowances

RGGI, in which 40% of CO_2 allowances were allocated to sources for 2009, declining by 8% per year so that by 2014, all CO_2 allowances are auctioned.

Dover had more than a sufficient number of RGGI allowances allocated to it to cover its requirements through the first compliance period (calendar years 2009-2011). Any unused allowances are carried over ("banked") for subsequent years. The table below shows RGGI allowance allocations, deductions and the cumulative balance by year (column 8).

CO2 Allowance Summary (10/31/2014)							
1	2	3	4	5	6	7	8
CO_2 Allowance Vintage	CO_2 Allowances Sold YTD	CO_2 Allowances (Per Facility, Prior to Sale)		Allocated CO_2 Allowances	CO_2 Tons Emitted	Annual CO_2 Allowance Balance	Cumulative Balance
		McKee Run	***VanSant***				
2009	0	60,128	2,056	62,184	(5,796)	56,388	56,388
2010	0	48,102	1,645	49,747	(32,971)	16,776	73,164
2011	0	36,077	1,234	37,311	(17,746)[4]	19,565	92,729
2012	0	27,058	925	27,983	(15,957)	12,026	104,755
2013	0	22,879	1,939	24,818	(10,231)	14,587	119,342
2014	0	-0-	-0-	-0-	(25,426)	(25,426)	**93,917**

Dover no longer receives allocations of RGGI allowances (columns 3-5). The cumulative balance can be utilized for generation in 2014 and future years. Note that the 2014 emissions through the end of October are larger than four out of the last five years.

Once the banked allowances have been fully utilized, Dover will be required to purchase RGGI allowances through the auctions or through over-the-counter markets. Assuming that Dover does not sell any banked allowances and produces 25,000 tons of CO_2 emissions annually, it should be able to maintain a positive balance through around 2018.

Dover could elect to sell all or a portion of its banked allowances now and re-acquire allowances at a later date; however TEA is currently of the opinion that Dover will be better off retaining its banked allowances for use during future compliance years.

The most recent RGGI spot auction occurred on September 3rd, 2014; the auction cleared at $4.88/ton. The next auction will occur on December 3rd, 2014. **Based on the November 18th, 2014 ICE price for the December 2014 strip ($5.19/ton), the**

[4] 2011 and 2012 emissions corrected to match values in RGGI COATS.

estimated market value of Dover's existing 93,917 ton RGGI allowance bank is $487,429.

Renewable Energy Certificates

Dover owns two photovoltaic systems totaling 15 kW, consisting of (one 5 kW unit at the Utilities Administration Building and two 5 kW units at the McKee Run generating station. Dover also receives solar energy produced by the 10 MW Dover Sun Park which is owned by White Oak Solar Energy, LLC. In addition to the all of the physical energy produced by the Sun Park, Dover receives 15% of Sun Park's SRECS.

Dover participates in the Delaware Municipal Electric Corporation's (DEMEC) Renewable Portfolio Standard (RPS) for compliance with the State of Delaware's RPS laws applicable to municipal utilities. The first compliance period under DEMEC's RPS was the 36 months ending May 2014.

Through the end of October 2014, Dover had accumulated a total of 6,098 SRECS from these renewable energy resources, net of 2,941 SREC transferred to DEMEC for retirement in accordance with the RPS requirement for the first compliance period.

While Delaware does periodically hold auctions for SRECs, these auctions are for size tiers N1 – N3, E1 and E2. The Dover Sun Park is in the N4 tier for very large facilities. State-wide carve outs for Tier 4 has been fully subscribed, so there is not a market for tier 4 SRECs in Delaware.

The nearest viable market for Dover's SRECs is Pennsylvania. Daily settlement prices from FlettExchange Environmental services (www.flettexchange.com) were used for 2011/12 through 2014/15 vintage allowances. The November 18, 2014 daily settlement prices for Pennsylvania SRECS are used in the table below.

SREC Vintage (June 1 – May 31)	Market Clearing Price	SREC Balance	Market Value
2011/2012	$0	0	0
2012/2013	$23.00	1,834	42,182
2013/2014	$30.00	2,735	82,050
2014/2015	$40.50	1,529	61,924
TOTAL		**6,098**	**$180,156**

TEA continues to recommend to Dover to retain these allowances for compliance with its Renewable Portfolio Standard (RPS) which DEMEC is working on.

Dover's annual SREC acquisition for the last three years is slightly below the 2013/14 compliance requirements. Compliance requirements will increase in future years. Dover will need to determine how it plans to comply with these increasing SREC requirements in the future before its existing bank of allowances is depleted.

D. Operations Management Summary:

During the month of October there were no reportable or lost time accidents or injuries. The facility has now gone 1,478 days without an OSHA recordable accident and 1,478 consecutive days without a lost time reportable accident. There were no Environmental Notices of Violations or exceedances issued. There were two near misses reported. All Units were in a planned outage during the entire month and therefore had not opportunities to generate for PJM.

Monthly Budget Variance – The actual expenses attributable to O&M of the two sites for the month of October were $571,326 against a budgeted amount of $389,581 for an unfavorable variance of $181,745 or 46.60%. The principal reasons for the unfavorable variance were due to; having three (3) payrolls expensed in October rather than the two (2) that were budgeted, payouts to personnel who terminated their employment at the facility, and higher variable costs for water, sewer, and electricity.

E. Risk Management Summary:

Forward power prices in PJM are slightly lower than last month.

The current projected cost of service is below:

PY	Hedge Ratio	Blended Cost ($/MWh)	Monthly Change ($/MWh)
2014-15	80%	$ 46.72	$ (0.18)
2015-16	70%	$ 44.13	$ (0.01)
2016-17	33%	$ 42.91	$ (0.20)
2017-18	31%	$ 43.60	$ (0.43)
2018-19	15%	$ 44.14	$ (0.74)

The Energy Authority®
® The Strategic Partner for Public Power

II. Budget Report

	Budget Oct-14	Actual Oct-14	Variance	Source	Formula
Gross Load	57,385	56,013	1,372	PJM load Inschedules + White Oak-Dover invoice	G = (Net PJM Wholesale Load + Dover SunPark Mwh)
Power Supply					
Hedged Energy	$1,675,194	$1,962,527	($287,333)	TEA Deal capture system, verified by settlement checking out with counterparties	
PJM - Energy, Congestion & Losses	$820,148	114,786	$705,362	PJM Invoice	
PJM - ARR, Transmission and Fees	$515,925	463,802	$52,123	PJM Invoice	
Dover SUN Park Energy	$148,960	$140,672	$8,288	White Oak-Dover Invoice	
Dover SUN Park RECs	$25,410	$33,221	($7,811)	White Oak-Dover Invoice	
Management Fees	$83,000	$83,000	$0	Annual Contract	
PJM - Capacity UCAP Obligated Purchased	$823,464	$811,997	$11,467	PJM Invoice	
Subtotal - Power Supply	$4,092,101	$3,610,004	$482,097		A
Power Generation O&M					
Plant O&M	389,581	$571,326	(181,745)	Monthly NAES report	
Subtotal Generation O&M	389,581.00	571,326.00	($181,745)		B
Power Generation Production Margin					
PJM - Economic and reliability dispatch	$0	$ -	$0	PJM Invoice	
Fixed Fuel and Transport Charges	$0	$ -	$0	TEA Deal capture system, verified by settlement checking out with counterparties and pipeline.	
Subtotal Generation Production Margin	$0	$ -	$0		C
Power Generation Non-Production Revenue					
PJM - Generation Capacity Credit	($740,515)	$ (725,759)	($14,756)	PJM Invoice	
Capacity Replacement Charge	$11,160	$ -	$11,160	Budgeted amount for incremental 3.6 mw purchase. Actuals been shown in PJM - Capacity UCAP Obligated purchased.	
PJM - Black Start & Transmission Losses	($25,895)	$ (53,153)	$27,258	PJM Invoice	
Subtotal - Non-Production Revenue	($755,250)	($778,912)	$23,662		D
SubTotal - All Generation	(365,669.00)	($207,586)	($158,083)		E = (B+C+D)
Total - Utilities Cost	$3,726,432	$3,402,418	$324,014		F = (A+E)
Unit Costs					
Total - Power Supply	$71.31	$64.45	$6.86		H = (A/G)
Total - Power Generation	($6.37)	($3.71)	($2.67)		I = (E/G)
Final Cost of Service to City of Dover Ratepayers	$64.94	$60.74	$4.19		J =(H+I)

Variance Analysis:

Power Supply

- Dover consumed 1,372 MWh less than forecast for the month.
- PJM transmission and fees were lower than expected with minimal monthly reactive services charges.
- This resulted in a net power supply cost of $64.45/MWh, $6.86/MWh below budget.
- For the month, the city realized a favorable variance of $482,097 for power supply vs. the monthly budget.
- Dover Sun Park generated 81 MWh less than forecast.

Generation

- Power generation had an unfavorable budget variance of $158,083.
- Plant O&M expenses had an unfavorable budget variance of $181,745 for the month.

The Energy Authority®
® The Strategic Partner for Public Power

	Budget YTD	Actual YTD	Variance	Source	Formula
Gross Load	274,421	264,247	10,173	PJM load Inschedules + White Oak-Dover invoice	G = (Net PJM Wholesale Load + Dover SunPark Mwh)
Power Supply					
Hedged Energy	$8,133,969	$9,942,829	($1,808,860)	TEA Deal capture system, verified by settlement checking out with counterparties	
PJM - Energy, Congestion & Losses	$4,582,567	$2,249,406	$2,333,161	PJM Invoice	
PJM - ARR, Transmission and Fees	$2,526,122	$1,858,411	$667,711	PJM Invoice	
Dover SUN Park Energy	$715,105	$773,676	($58,571)	White Oak-Dover Invoice	
Dover SUN Park RECs	$156,140	$171,897	($15,757)	White Oak-Dover Invoice	
Management Fees	$332,000	$332,000	$0	Annual Contract	
PJM - Capacity UCAP Obligated Purchased	$3,267,294	$3,206,436	$60,858	PJM Invoice	
Subtotal - Power Supply	$19,713,197	$18,534,654	$1,178,543		A
Power Generation O&M					
Plant O&M	$2,084,574	$2,081,840	$2,734	Monthly NAES report	
Subtotal Generation O&M	$2,084,574	$2,081,840	$2,734		B
Power Generation Production Margin					
PJM - Economic and reliability dispatch	($1,339,680)	($1,946,803)	$607,123	PJM Invoice	
Fixed Fuel and Transport Charges	$966,800	$991,866	($25,066)	TEA Deal capture system, verified by settlement checking out with counterparties and pipeline.	
Subtotal Generation Production Margin	($372,880)	($954,937)	$582,057		C
Power Generation Non-Production Revenue					
PJM - Generation Capacity Credit	($2,938,171)	($2,870,682)	($67,489)	PJM Invoice	
Capacity Replacement Charge	$44,280	$0	$44,280	Budgeted amount for incremental 3.6 mw purchase. Actuals been shown in PJM - Capacity UCAP Obligated purchased.	
PJM - Black Start & Transmission Losses	($182,570)	($221,201)	$38,631	PJM Invoice	
Subtotal - Non-Production Revenue	($3,076,461)	($3,091,883)	$15,422		D
SubTotal - All Generation	($1,364,767)	($1,964,979)	$600,212		E = (B+C+D)
Total - Utilities Cost	$18,348,430	$16,569,675	$1,778,755		F = (A+E)
Unit Costs					
Total - Power Supply	$71.84	$70.14	$1.69		H = (A/G)
Total - Power Generation	($4.97)	($7.44)	$2.46		I = (E/G)
Final Cost of Service to City of Dover Ratepayers	$66.86	$62.71	$4.16		J =(H+I)

The Energy Authority®
® The Strategic Partner for Public Power

Operations Management

NAES Corporation
Dover, Delaware
October 2014
Monthly Report



VanSant Capacity Project – Newly Installed Wet Compression Pump Skids

The Energy Authority®
® The Strategic Partner for Public Power

Table of Contents

1.0 Environmental, Health, and Safety

2.0 Financial

3.0 Operations

4.0 Maintenance

5.0 CIP

6.0 General Plant Information

7.0 Summary of NAES Performance

1.0 Environmental, Health and Safety:

During the month of October, there were no restricted work days or lost time accidents. The facility has now gone 4 years and 17 days (1,478 days) through October, 2014 without an OSHA Recordable Accident or a Lost Time reportable accident. The employees at the facility successfully achieved the four years Accident-free milestone on October 14, 2014. There were two Near Misses reported in October at McKee Run.

The first Near Miss occurred while an Operator was filling the caustic day tank. The Operator stood on a plastic 5-gallon pail to visually observe the liquid level refill to its original operating level inside the day tank. The height of the tank rim/cover is approximately five and half feet from ground surface and is a challenge to visually observe the refilling process. Upon discovering the situation, several other Operators collectively approached the Operator and advised him to cease that operation. The corrective action was to purchase a new 4 foot fiberglass ladder that is dedicated to the caustic and acid day tanks areas.

The second Near Miss occurred at the Unit #3 Cooling Tower where a restoration project is underway. Two licensed solid waste solid waste transporters were retained by the plant to transport construction and demolition (C&D) debris from the project site to the local landfill. Two waste streams were being generated from this project; plastic debris from the cooling tower and pressure treated wood. Wood samples had been collected but were undergoing analysis and plant staff was waiting for the final results before the waste could be removed from the plant site. On Friday, October 3, 2014, both transporters were contacted and given specific instructions to suspend service until Monday October 6, 2014. At approximately 0630 hours on Saturday October 4, 2014, one of the haulers picked up an unauthorized roll-off load of pressure treated wood, transported it and disposed of it at the Sandtown landfill. Upon discovery of this action approximately one hour after the incident, NAES contacted the landfill and informed them of the situation. No management was on-site the day of the incident and the Sandtown landfill operator instructed NAES to call on Monday and discuss the situation with the landfill manager. On Monday, the landfill manger was contacted by plant staff and the resolution was that the plant needed to submit a Delaware Solid Waste Authority (DSWA) Special Waste form along with any laboratory analysis for the DSWA to review and to determine disposition of the material. The Special Waste form was completed, submitted to DSWA along with lab data, and shortly afterwards received a DSWA Special Waste approval letter to be used to dispose of this material. McKee Run received a Special Waste approval letter from DSWA for up to 400 tons of pressure treated wood from the Unit #3 Cooling Tower restoration project. In the month of October a total of 17.04 tons for Special Waste was hauled to DSWA's Sandtown landfill in Felton, DE.

McKee Run used a contractor to remove approximately 600-gallons of oily water from the plant. In addition, the contractor was also used to remove 500-gallons of oil and oily water from the VanSant oil/water separator tank.

The plant received no Notice of Violations (NOVs) during the month. The October DMR was submitted for the McKee Run site with no NPDES exceedences. There were no opacity deviations from any unit in October.

On October 21, 2014 McKee Run and VanSant completed the annual opacity (COMS) auditing certification requirement. Due to recent changes in air regulations, McKee Run and VanSant underwent the new requirements which mandate that electric generating stations perform opacity

COMS filter audit certifications on a quarterly basis rather than the previous years' annual certification. Therefore, on October 21, 2014, both McKee Run and VanSant completed and passed the 2014 quarterly opacity COMS filter certifications. The next quarterly opacity certification is schedule for March of 2015.

As required by the air permit, the City of Dover submitted the Quarterly Excess Emissions Report to DNREC and EPA for the VanSant facility.

During the month of October, there were no IWW discharges to the Kent County Sewer system. Since there were no monthly discharges, no monthly sample was collected. The October SIU Report was still submitted to Kent County indicating no discharges occurred.

Environmental, Health, and Safety Statistics		
	Month (October)	Fiscal Year to Date (7/1/14-6/30/15)
NOVs	0	0
Opacity Deviations	0	1
Environmental Deviations	0	0
OSHA Recordable	0	0
OSHA LTA's	0	0
First Aid cases	0	0
Restricted Workday Accident	0	0
Near Miss	2	10
Man Hours Worked	4,706.5	71,503.75
Date last OSHA Recordable		10/14/10
Date last Lost Time Accident		10/14/10
Days since last OSHA recordable		1,478
Days since last Lost Time Accident		1,478

CO2 Allowances Summary					
CO2 Allowance Vintage	**CO2 Allowances Sold YTD**	**CO2 Allowances Available (Per Facility, Prior to Sale)**		**Total CO2 Tons Emitted**	**CO2 Allowance Balance**
		McKee Run	***VanSant***		
2013 and earlier	0	194,244	7,799	82,700**	119,343**
2014	0	0	0	25,426	(25,426)
			Total CO2 Allowance Balance		**93,917****

***Note: CO2 allowance values are provided by the RGGI CO2 Allowance Tracking System.**
Note: All emissions (NOx, SO2 and CO2) totals for 2013 are unofficial.
#Note: Additional CO2 Emission Values were added to 2013 balances by RGGI COATS- 7,846.757 for McKee Run and 1,424.677 for VanSant
****Note: 2011 and 2012 Emissions in previous reports were incorrect. The October 2014 Report now correctly reflects the actual emissions.**

NOx Summary – Ozone Season (May-Sep) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	1.2	1.0	35.8	1.0	33.1
2013	1.1	1.7	19.3	1.3	23.4
2014	0.4	0.6	35.0	0.8	36.8
NOx Summary - Year (Jan-Dec) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	1.2	1.1	35.8	1.0	36.9
2013	1.1	1.7	19.4	1.3	23.5
2014	0.8	1.1	39.8	3.7	45.4
SO_2 Summary - Year (Jan-Dec) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	0.0		0.0	0.1	0.1
2013	0.0	0.0	0.0	0.2	0.2
2014	0.0	0.0	0.4	0.6	1.0

CAIR NOx Allowances Summary*

CAIR NOx Allowance Vintage	CAIR NOx Allowances Sold YTD	NOx Allowances Available (Per Facility, Prior to Sale)		Total NOx Tons Emitted (Yr/ Season)	CAIR NOx Allowances Purchased YTD	NOx Allowance Balance	
		McKee Run (Yr/Season)	*VanSant (Yr/Season)*	McKee Run - VanSant		*McKee Run* (Yr/Season)*	*VanSant* (Yr/Season)*
2013 and earlier						160/78	9/8
2014	0	71/46	5/3	40/35 - 4/1	0/0 – 0/0	31/11	1/2
				Total NOx Allowance Balance		**191/89**	**10/10**

***Note – Emissions allowances are deducted according to oldest vintage first or unless otherwise directed.**
****Note – The facility transferred Ozone Season allowances to a third party.**

SO_2 Allowances Summary

SO_2 Allowance Vintage	SO_2 Allowances Sold - YTD	SO_2 Allowances Available (Per Unit, Prior to Sale & Reconciliation)		Total SO_2 Tons Emitted– U3 and U11 YTD	SO_2 Allowances Balance*
		Unit #3	*Unit #11*		
2013 and earlier	0	10,365	690	2	11,053
2014	0	1850	138	1	1,987
			Total SO2 Allowance Balance		**13,040**

***Note – Emissions allowances are deducted according to oldest vintage first, unless otherwise directed.**

2.0 Financial

Financial – Month

Month – October			
	Actual	Budget	Variance
Personnel	390,982	245,800	(145,182)
Materials & Supplies	37,494	10,200	(27,294)
Administrative Expenses	142,850	133,581	(9,269)
Total	**$571,326**	**$389,581**	**($181,745)**

Financial – Fiscal Year to Date

Number of Months – 4			
	Actual	Budget	Variance
Personnel	1,086,996	1,110,600	23,604
Materials & Supplies	171,111	122,150	(48,961)
Administrative Expenses	823,733	851,824	28,091
Total	**$2,081,840**	**$2,084,574**	**$2,734**

2.1 Variance analysis:

The actual expenses for the month of October are $571,326 against a budgeted amount of $389,581for an unfavorable variance of $181,745 or 46.60%. The variance was due to the following:

PERSONNEL EXPENSES – An unfavorable monthly variance of $145,182 was due to three (3) payroll periods being expensed versus the (2) that were budgeted. In addition, there were payouts to personnel who terminated their employment at the facility. As a result, this impacted three (3) labor accounts – Straight Time, Overtime, and Labor Burdens.

MATERIALS AND SUPPLIES EXPENSES- An unfavorable monthly variance of $27,294 was due to higher than budgeted water and sewer costs than was originally budgeted. Additionally, new computers were purchased, as recommended by City IT Department that was originally budgeted for later in the fiscal year.

ADMINISTRATIVE EXPENSES – An unfavorable monthly variance of $9,269 due to higher than anticipated electricity costs. A portion of this negative variance was offset by lower than anticipated costs in insurance and environmental costs.

The forecasted expenses for this fiscal year are $6,136,266 expensed versus an approved budget of $6,141,100 thereby realizing a 99.92% expenditure rate.

3.0 Operations

Unit Operations / Outages / Trips: On September 29, a planned outage was started on all units and is scheduled until December 1, 2014.

Month October 2014							
		McKee Unit 1	McKee Unit 2	McKee Unit 3	MRS Facility	VanSant Unit 11	Total All Units
Capacity	MW	17	17	102	136	39	175
On Line Hours	Hrs	0.0	0.0	0.0	0.0	0.0	0.0
Starts	#	0	0	0	0	0	0
Gross Generation	MWh	0.0	0.0	0.0	0.0	0.0	0.0
Net Generation	MWh	0.0	0.0	0.0	0.0	0.0	0.0
Total Auxiliaries	MWh	0.0	0.0	0.0	0.0	0.0	0.0
Auxiliaries purchased	MWh	19.819	19.819	140.291	179.928	2.317	182.245
Fuel Gas Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	Gallons	0.0	0.0	0.0	0.0	0.0	0.0
Total Fuel	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Net Heat Rate	BTU/KWh	0.0	0.0	0.0	0.0	0.0	0.0
Unit Trips	#	0	0	0	0	0	0
Capacity Factor	%	0.0	0.0	0.0	0.0	0.0	0.0
Availability Factor	%	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Unavailability (CU)	%	0.0	0.0	0.0	0.0	0.0	0.0
Planned Outage Hours	Hours	744.000	744.000	744.000	2,232.000	744.000	2,976.000
Maintenance Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Forced Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Reserve Shutdown Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
HW Boiler Gas Usage	MMBTU				0.0		0.0
Pilot Gas Usage	MMBTU	0.0	0.0		0.0		0.0

 # Note: Does not include HWB or Pilot Gas. Fuel usage numbers are taken from fuel flow instruments.

The Energy Authority®
® The Strategic Partner for Public Power

2014-2015 Fiscal Year-to-Date (4 Months)							
		McKee Unit 1	McKee Unit 2	McKee Unit 3	MRS Facility	VanSant Unit 11	Total All Units
Capacity	MW	17	17	102	136	39	175
On Line Hours	Hrs	30.966	35.134	433.682	499.782	17.350	517.132
Starts	#	3	5	33	41	5	46
Gross Generation	MWh	261.694	252.941	22,525.426	23,040.061	578.081	23,618.142
Net Generation	MWh	247.853	233.930	20,511.856	20,993.639	567.702	21,561.341
Total Auxiliaries	MWh	116.989	122.159	3,108.629	3,347.776	6.154	3,353.930
Auxiliaries purchased	MWh	103.148	103.148	1,095.059	1,301.355	5.775	1,307.130
Fuel Gas Used	MMBTU	3,780.381	3,255.417	238,464.654	245,500.452	7,544.726	253,045.178
Fuel Oil Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	Gallons	0.0	0.0	0.0	0.0	0.0	0.0
Total Fuel	MMBTU	3,780.381	3,255.417	238,464.654	245,500.452	7,544.726	253,045.178
Net Heat Rate	BTU/KWh	15.253	13.916	11.825	13.664	13.278	13.471
Unit Trips	#	1	3	0.0	4	1	5
Capacity Factor	%	0.49	0.47	6.81	5.15	0.49	4.11
Availability Factor	%	73.41	73.41	73.15	73.32	73.41	73.34
Commercial Unavailability (CU)	%	0.0	0.0	0.26	0.09	0.0	0.06
Planned Outage Hours	Hours	785.000	785.000	785.000	2,355.000	785.000	3,140.000
Maintenance Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Forced Outage Hours	Hours	0.0	0.0	7.667	7.667	0.0	7.667
Reserve Shutdown Hours	Hours	2,136.034	2,131.866	1,725.651	5,993.551	2,149.650	8,143.201
HW Boiler Gas Usage	MMBTU				0.0		0.0
Pilot Gas Usage	MMBTU	527.631	527.631		1,055.263		1,055.263

Fuel Oil Inventory							
	Monthly Inventory (Start)	Monthly Inventory (End)	Fuel Purchases (Month)	Monthly Inventory (Change)	FY 14-15 Inventory (Start)	Fuel Purchases (FYTD)	FY 14-15 Inventory (Change)
McKee Run (#2 Fuel Oil)	647,719	667,988	22,419	20,269	452,963	222,895	215,025
VanSant (#2 Fuel Oil)	124,053	130,879	7,446	6,826	73,572	59,512	57,307

Note: As measured by tank level instruments. Tank levels may change due to oil temperature.

VanSant Lifetime through October 2014			
	Actual Starts	Factored Starts	Fired Hours
VanSant	1372	2,349.75	4,333.90
Since HGP - Dec 2004	261	682.05	950.32

Team Report:

OES-NA was on site for the purpose of providing PJM simulation training to Operations staff members. PJM requires thirty (30) simulation hours (credits) in order to maintain the three year Generation System operator certification. The only method to receive these credits is to attend a PJM System Operator seminar or to have qualified training observed by PJM. Voltage Control, Congestion Management, and Emergency Operations are some of the topics covered in the two day class using laptops. Four operators and one supervisor attended the class from the plant staff. This class will supply the operator attendees with fourteen (14) simulation credits.

Operations personnel continue to support maintenance by working on Preventative Maintenance (PM) work orders and other work orders that they have the skills to successfully complete the task. The Operations Department continues to utilize the Day Shift Workers in both the Operations and Maintenance areas to help in maintaining the plant.

Capacity Testing – FY 2014-2015

Summer 2014 (June 1- Aug 31)			**Winter 2014-2015 (Dec 1- Feb 28)**		
Unit	Rated Net Capability (MW)	Reported Net Capability (MW)	Unit	Rated Net Capability (MW)	Reported Net Capability (MW)
1	17	17.4	1	17	17*
2	17	17.5	2	17	17*
3	102	103.99	3	102	102*
11	39	39.8#	11	39	39*
Total	175	175	Total	175	175

Note: * Denotes Unit is qualified for the PJM Winter Demonstration Period Exemption Program.
Note: # Depicts Net Corrected Capacity for Ambient Air Conditions – VanSant Unit only

4.0 Maintenance

During the month of October, the Plant Maintenance staff continued addressing the backlog of work orders. There were forty-one work orders issued with ninety-seven work orders being completed during the month. No safety work orders were entered into the plant's Computerized Maintenance Management System (MP2) during the month. The table below summarizes the monthly work order activities.

Work Order Report

October - 2014

Priority #	Outstanding From Previous Month	Issued This Month	Completed This Month	Outstanding at the end of the month
1	24	4	6	22
2	55	5	14	46
3	57	2	18	41
4	5	0	0	5
5	16	0	3	13
SW1	0	0	0	0
SW2	0	0	0	0
SW3	0	0	0	0
SW4	0	0	0	0
SW5	0	0	0	0
PM	84	30	56	58
EM	0	0	0	0
Totals	241	41	97	185

Note: PM Work Orders are included in the priority totals

Notable activities during the month include:

The NAES Maintenance & Operations Staff opened the Deaerator heater and storage tanks in preparation for an inspection of both vessels by an outside testing company. The testing company completed their inspections of the deareator heater and storage tank. There were no issues with the inspections that were conducted.

The NAES Maintenance Staff and Operations staff cleaned out the industrial waste water neutralization pit in preparation to the installation of a new pit liner. A vendor installed a new liner in the pit and once complete staff members reinstalled equipment that had been taken out of service to expedite the liner installation. The neutralization pit is now in service.

The NAES IC&E Staff and STI-CEMS completed the quarterly audit of the opacity monitors at the McKee Run and VanSant Generating Stations. All of the opacity monitors passed the audit with no issues.

5.0 Capital Improvement Projects (CIP)

Project Number	Description	Update
EG1212	Unit 3 Turbine Repairs	Progress: All work planned is now complete. Follow-up activities include contacting suppliers for the replacement of the damaged rotor expansion instrumentation. This equipment is obsolete and will be replaced with current technology. Replacement of other turbine supervisory instrumentation will also be investigated. High vibration experienced during hot starts will require an additional balancing. Plant staff is collecting data that will help determine where and how much balance weight will need to be installed in the next outage. Schedule: Continuing to pursue the replacement rotor expansion instrumentation and evaluate balancing of turbine-generator for Spring 2015 Outage.
EG1402	Unit #3 Cooling Tower Repairs	Progress: Contractor began work on September 29 and continued work throughout the month. Fill material, transitional sections, several louvers to gain access to the fill section were removed as well as a number of defective columns were removed and replaced. Schedule: Demolition activities in the fill area of additional columns (defective) and hot water basin planking will continue into November. Project is behind schedule and additional funds will be needed to address failed support columns within the fill section, particularly in the middle sections below the water line header.
EG1406	McKee Run HEP Pipe Repairs	Progress: The recently completed hanger adjustments were checked with the unit in the hot (running) position. Minor adjustments are needed on several hangers and will attempt to complete in the coming months. Future operations should provide an opportunity to check the adjustments. One section of pipe identified as thinning was replaced by boiler contractor. FAC Inspection was conducted in late October with a preliminary report that there are no issues. Final report to be provided within the next several weeks. Schedule: Final report expected in November or December time period.
EG1407	Metering System Upgrades	Progress: Work scope is still being developed for an RFP. COD staff is continuing their efforts to remake the communication link with Cartanza. Schedule: Work activities are moving forward. Working with COD staff to finalize RFP documents for release later in the calendar year.
EG1416	VanSant Capacity Increase	Progress: Plant received the construction permit from the DNREC and will continue with installation plans. Schedule: Equipment skids arrived in early October and were installed on the newly poured foundations (once they cured). Other miscellaneous materials are on order including the MCC sections and are currently waiting for delivery.
EG1503	Unit #3 Auxiliary System Component Replacement	Progress: Work scopes being developed for the Spring 2015 Outage. Some work in process of being completed for Fall 2014 Outage. Schedule: Fall 2014 work commenced in October. Spring 2015 Outage work scopes being developed.

EG1504	Unit#3 Boiler System Repairs	Progress: Work scopes being developed for the Spring 2015 Outage. Some work in process of being completed for Fall 2014 Outage. Schedule: Fall 2014 work commenced in October. Spring 2015 Outage work scopes being developed.
EG1505	VanSant Station Component Replacement	Progress: Work scope is being deferred until next FY. Schedule: Work scopes will continue to be developed for next fiscal year.
EG1506	McKee Run/VanSant Safety Improvements	Progress: Work scopes developed and sent out for bids and award in early September. Bids were reviewed, evaluated and contracts awarded. Schedule: Work activities planned for completion in Fall 2014 outage and spring 2015. Parts are on order and expected to arrive in late November and early December.
EG1507	McKee Run Units #1-#2 Component Replacement	Progress: Project on Hold Schedule: Project on Hold
EG1508	McKee Run/VanSant Structural Preservation	Progress: Plant staff completed development of paint specifications and bid requests were to be received in mid-August. Schedule: Bids will be evaluated and determination made thereafter as to how to proceed. Work will need to be completed in warmer temperatures, spring 2015

6.0 General Plant Information

Aaron Jester, Senior Operator II, decided to pursue an opportunity elsewhere in the power industry. His last day was October 16 on which send-off celebration was held to say farewell and wish him good luck on his future endeavor.

Kathleen Cooper, Administrative Assistant, submitted her resignation on October 23 with her final date of employment as November 7.

On-going efforts are being made to fill two (2) open Operator positions and one (1) Administrative Assistant.

Training:

Plant employees continue General Physics environmental courses to enhance their overall knowledge of permit requirements. As the GPI courses are being completed the employee reviews the permit and then has to score a minimum 80% on a quiz before they can complete the training on the permit.

Topics discussed during the monthly safety committee meeting were reviewed by the entire staff. The monthly safety topic was on “Precautions for All Workers during the Flu Season”.

Calendar of Events	Date
Annual VanSant Black Start Test	TBD
Units 1, 2, 3 and 11 Fall Outage Starts	September 29, 2014
NOx Ozone Season Ends	September 30, 2014
Four Year Accident Free	October 14, 2014
NPDES Permit Expires (DNREC has Extended)	November 1, 2014
Winter Capacity Period	December 1, 2014 to February 28, 2015
NOx Emissions Reconciliation Due	March 1, 2015
SO2 Emissions Reconciliation Due	March 1, 2015
SARA III / Tier II Report Due	March 1, 2015
Units 1, 2, and 3 Spring Outage	TBD – Spring 2015
Unit 11 Spring Outage	TBD – Spring 2015
Air Emission Inventory	April 30, 2015
NOx Ozone Season Starts	May 1, 2015
PJM Summer Capacity Test Period	June 1, 2015 – August 31, 2015
FY 2014-201454 Budget Year Begins	July 1, 2015
Toxic Release Inventory (TRI) Annual Report	July 1, 2015
Semi-Annual Title V Certification Due	July 31, 2015

7.0 Summary of NAES Performance to Date

Measure	Plant Performance FY 2014-2015 Month		Year to Date		YTD Incentive	FY Maximum Incentive
Commercial Unavailability (CU)	0.00%		0.05%		$94,679	$96,875
Safety	0		0		$18,163	$18,163
Environmental	0		0		$18,163	$18,163
Capacity Tests Completed	Summer	Winter	Summer	Winter		
Unit 1	No	No	Yes	No	$3,634	$3,634
Unit 2	No	No	Yes	No	$3,634	$3,634
Unit 3	No	No	Yes	No	$21,797	$21,797
Unit 11	No	No	Yes	No	$7,266	$7,266
Total YTD Incentive %	98.7%		***Total YTD Incentive***		$167,335	$169,532

Note*: All units have successfully completed the Summer (FY 2014-2015) Testing for PJM and are now entered in the PJM Winter Capacity Test Exemption Program.

III. Appendix 1 – PJM Invoice Breakdown

		Gen	Load	Grand Total
⊟480-8102-592-95-49	Capacity Resource Deficiency		($2,321.16)	($2,321.16)
	Capacity Transfer Rights		$60.76	$60.76
	Locational Reliability		$814,257.78	$814,257.78
480-8102-592-95-49 Total			**$811,997.38**	**$811,997.38**
⊟480-8102-592-95-50	RPM Auction	($725,758.98)		($725,758.98)
480-8102-592-95-50 Total		**($725,758.98)**		**($725,758.98)**
⊟480-8102-592-95-90	Auction Revenue Rights		($55,170.70)	($55,170.70)
	Balancing Operating Reserve		$4,149.14	$4,149.14
	Balancing Operating Reserve for Load Response		$0.78	$0.78
	Black Start Service		$1,948.73	$1,948.73
	CT Lost Opportunity Cost Allocation		($48.36)	($48.36)
	Day-Ahead Load Response Charge Allocation		$247.02	$247.02
	Day-ahead Operating Reserve		$8,956.90	$8,956.90
	Day-ahead Operating Reserve for Load Response		$0.05	$0.05
	Expansion Cost Recovery		$408.27	$408.27
	FERC Annual Recovery		$3,914.41	$3,914.41
	Generation Deactivation Refund		($686.54)	($686.54)
	Load Reconciliation for Transmission Losses		$67.01	$67.01
	Market Monitoring Unit (MMU) Funding		$224.37	$224.37
	Michigan - Ontario Interface Phase Angle Regulators		$206.26	$206.26
	Network Integration Transmission Service		$420,278.16	$420,278.16
	Non-Firm Point-to-Point Transmission Service		($347.00)	($347.00)
	Non-Synchronized Reserve		$454.01	$454.01
	North American Electric Reliability Corporation (NERC)		$596.63	$596.63
	Organization of PJM States, Inc. (OPSI) Funding		$39.01	$39.01
	PJM Scheduling, System Control and Dispatch Service - Advanced Second Control Center		$1,627.89	$1,627.89
	PJM Scheduling, System Control and Dispatch Service - Capacity Resource/Obligation Mgmt.		$952.63	$952.63
	PJM Scheduling, System Control and Dispatch Service - Control Area Administration		$9,434.72	$9,434.72
	PJM Scheduling, System Control and Dispatch Service - Market Support		$2,166.35	$2,166.35
	PJM Scheduling, System Control and Dispatch Service - Market Support Offset		($217.45)	($217.45)
	PJM Scheduling, System Control and Dispatch Service - Regulation Market Administration		$86.03	$86.03
	PJM Scheduling, System Control and Dispatch Service Refund - Capacity Resource/Obligation Mgmt.		($115.63)	($115.63)
	PJM Scheduling, System Control and Dispatch Service Refund - Control Area Administration		($1,288.07)	($1,288.07)
	PJM Scheduling, System Control and Dispatch Service Refund - Market Support		($297.38)	($297.38)
	PJM Scheduling, System Control and Dispatch Service Refund - Regulation Market Administration		($14.66)	($14.66)
	PJM Settlement, Inc.		$217.45	$217.45
	Reactive Services		$2,064.55	$2,064.55
	Reactive Supply and Voltage Control from Generation and Other Sources Service		$36,269.99	$36,269.99
	Real-Time Load Response Charge Allocation		$745.87	$745.87
	Regulation and Frequency Response Service		$14,924.16	$14,924.16
	Reliability First Corporation (RFC)		$847.56	$847.56
	Synchronized Reserve		$4,461.82	$4,461.82
	Transmission Enhancement		$2,554.55	$2,554.55
	Transmission Owner Scheduling, System Control and Dispatch Service		$4,142.99	$4,142.99
480-8102-592-95-90 Total			**$463,801.52**	**$463,801.52**
⊟480-8102-592-95-91	Balancing Spot Market Energy		($116,448.91)	($116,448.91)
	Balancing Transmission Congestion		$21,565.05	$21,565.05
	Balancing Transmission Losses		($12.42)	($12.42)
	Day-ahead Spot Market Energy		$454,085.78	$454,085.78
	Day-ahead Transmission Congestion		($237,718.61)	($237,718.61)
	Day-ahead Transmission Losses		$2,997.46	$2,997.46
	Emergency Load Response		($15.64)	($15.64)
	Inadvertent Interchange		$52.83	$52.83
	Load Reconciliation for Balancing Operating Reserve		$2.72	$2.72
	Load Reconciliation for FERC Annual Recovery		($10.87)	($10.87)
	Load Reconciliation for Inadvertent Interchange		($3.44)	($3.44)
	Load Reconciliation for Market Monitoring Unit (MMU) Funding		($0.63)	($0.63)
	Load Reconciliation for Non-Synchronized Reserve		($0.24)	($0.24)
	Load Reconciliation for North American Electric Reliability Corporation (NERC)		($1.66)	($1.66)
	Load Reconciliation for Organization of PJM States, Inc. (OPSI) Funding		($0.11)	($0.11)
	Load Reconciliation for PJM Scheduling, System Control and Dispatch Service		($31.97)	($31.97)
	Load Reconciliation for PJM Scheduling, System Control and Dispatch Service Refund		$1.57	$1.57
	Load Reconciliation for Reactive Services		($33.13)	($33.13)
	Load Reconciliation for Regulation and Frequency Response Service		($20.56)	($20.56)
	Load Reconciliation for Reliability First Corporation (RFC)		($2.35)	($2.35)
	Load Reconciliation for Schedule 9-6 - Advanced Second Control Center		($3.63)	($3.63)
	Load Reconciliation for Spot Market Energy		($5,905.70)	($5,905.70)
	Load Reconciliation for Synchronized Reserve		($5.13)	($5.13)
	Load Reconciliation for Transmission Congestion		$734.08	$734.08
	Load Reconciliation for Transmission Losses		($163.40)	($163.40)
	Load Reconciliation for Transmission Owner Scheduling, System Control and Dispatch Service		($11.50)	($11.50)
	Meter Error Correction		($4,263.79)	($4,263.79)
480-8102-592-95-91 Total			**$114,785.80**	**$114,785.80**
⊟480-8102-592-95-93	Reactive Supply and Voltage Control from Generation and Other Sources Service	($29,467.58)		($29,467.58)
	Transmission Losses	($23,685.30)		($23,685.30)
480-8102-592-95-93 Total		**($53,152.88)**		**($53,152.88)**
Grand Total		**$ (778,911.86)**	**$ 1,390,584.70**	**$611,672.84**

The Energy Authority, Inc.

Monthly Management Committee Update – November 2014

December 18, 2014

Prepared by:

Robert Trinnear
Client Services Manager
904.360.1309
rtrinnear@teainc.org

The Energy Authority®
The Strategic Partner for Public Power

The Energy Authority®
® The Strategic Partner for Public Power

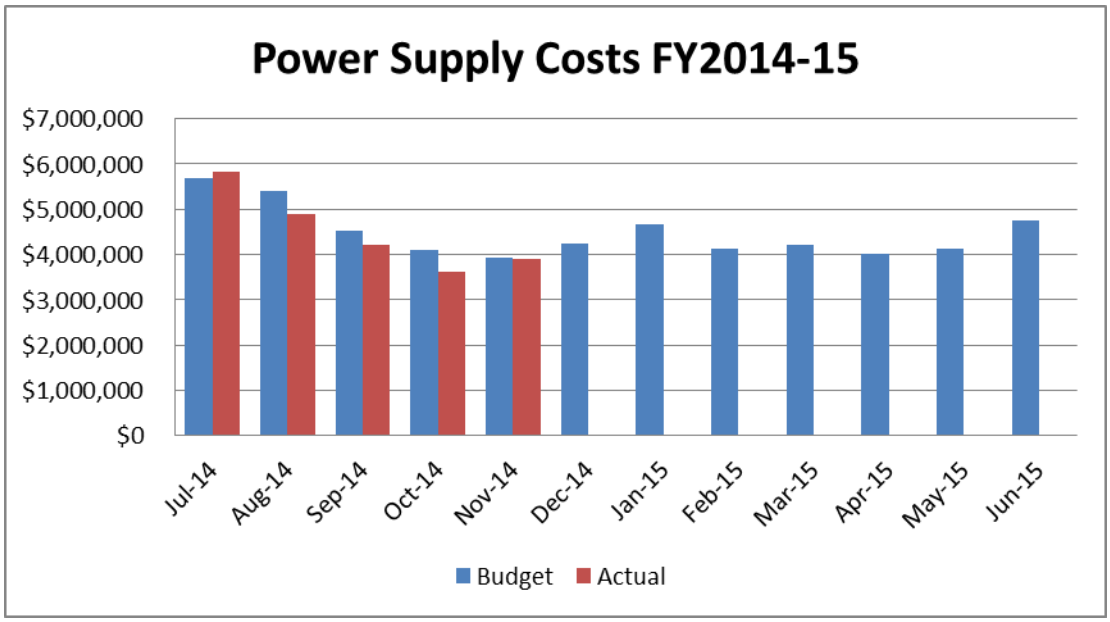
TABLE OF CONTENTS

I.	Executive Summary	1
II.	Budget Report	12
III.	Operations Management	15
IV.	Appendix	29

The Energy Authority®
® The Strategic Partner for Public Power

I. Executive Summary

A. Power Supply Summary:



Overall Power Supply costs were $38,146 under budget driven by lower PJM fees.

Dover's budgeted cost for all power supply (capacity AND energy) was $72.56/MWh. The actual cost of all power supply (capacity AND energy) was $69.90/MWh.

The cost of energy alone was $45.82/MWh, versus a budgeted energy cost of $45.69.

Dover's hedge purchases totaled 45,466 MWh, which was 81% of the actual load. The budgeted hedge purchase totaled 33,488, which was 62% of the budgeted load.

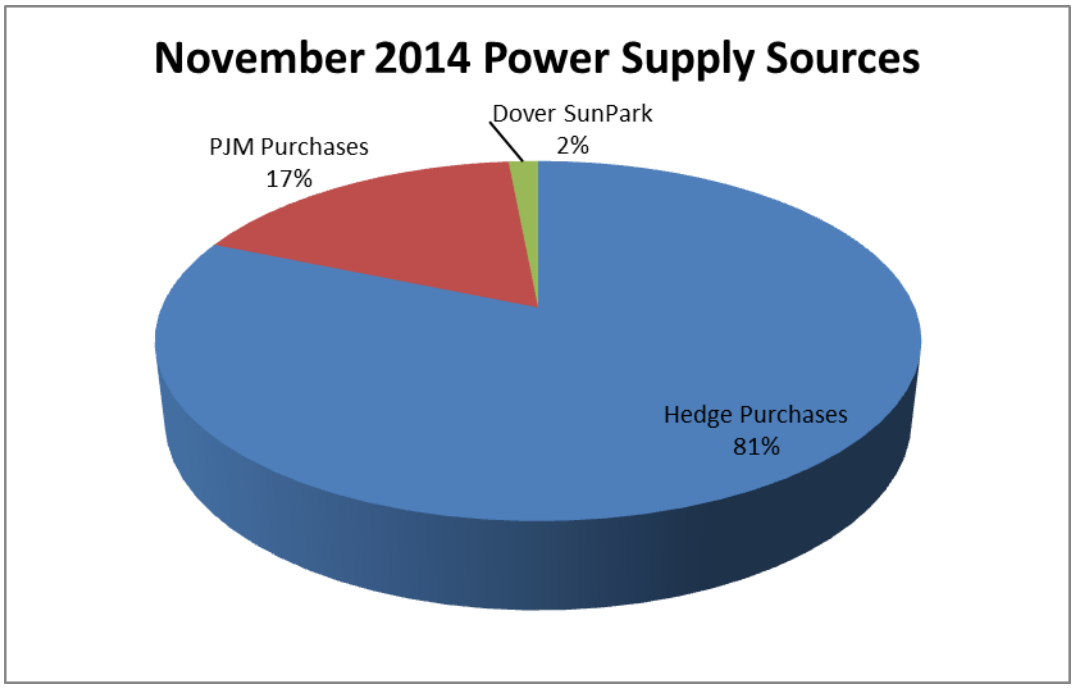
Dover's power purchases from hedge transactions totaled $1,897,919. Purchases from PJM (energy and fees) totaled $1,018,352. This number includes DA spot market energy charges of $444,106 and Network Integration Transmission Service charges of $406,721.

Dover's total load was 55,903 MWh versus a forecasted load of 54,377 MWh.

Dover's planned energy purchase from the SunPark solar installation was 912 MWh. Dover's actual energy purchase from the SunPark installation was 833 MWh.

The Energy Authority®
® The Strategic Partner for Public Power

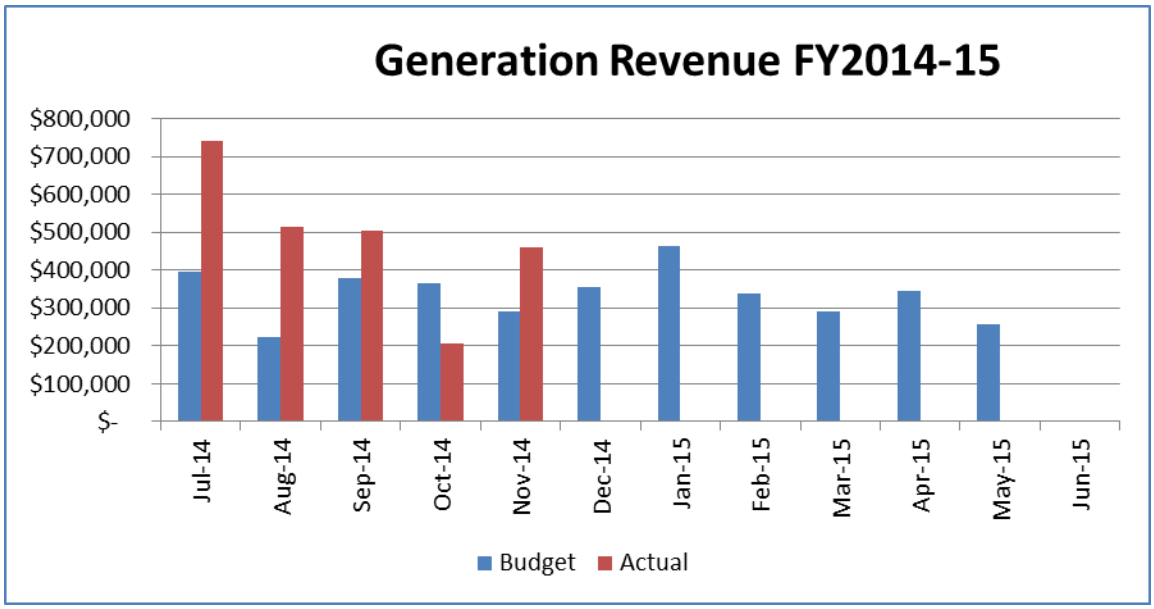
Supply Source Summary:



Supply Variance:

	Budget	Actual	Variance
Gross Load	54,377	55,903	(1,527)
Wholesale Load	53,465	55,070	(1,605)
Hedged Volume (MWh)	33,488	45,466	(11,978)
Unhedged Volume (MWh)	19,977	9,604	10,373
Dover SunPark Volume (MWh)	912	833	79
Renewable Energy Credits Volume	137	182	(45)
Hedged Cost ($/MWh)	44.74	41.74	3.00
Unhedged Energy Cost ($/MWh)	$ 44.11	$ 59.04	$ (14.93)
Solar Energy Cost ($/MWh)	$ 115.12	$ 115.97	$ (0.85)
Energy Costs ($/MWh)	**$45.69**	**$45.82**	**($0.13)**
All-in Costs - Energy, Capacity and RECs ($/MWh)	**$72.56**	**$69.90**	**$2.66**

B. Generation Summary:



Dover generated 0 MWh in the month. Net generation revenue was $459,851 vs. a budget of $290,855.

The Energy Authority®
® The Strategic Partner for Public Power

Generation Breakdown:

City of Dover

Monthly Wholesale Generation

November, 2014

Net Generation
0.00

Production Margin

				Formula
PJM - Generation				
	Economic and Reliability Dispatch	$	-	A
Natural Gas & Oil Consumption				
	Purchases for Generation	$	-	
	Natural Gas Transport	$0.00		
	Eastern Shore Cashout	$0.00		
	Oil Consumption	$	-	
	Subtotal: Natural Gas & Oil Consumption	$	-	B
Gross Production Margin		$	-	C = (A + B)
$/MWh Generation Production Gross Margin		$	-	E = (C/D)
PJM - Capacity				
	Generation Capacity Credit	$	702,347.40	
	Black Start and Transmission Losses	$	53,525.66	
	Subtotal: PJM - Capacity	$	755,873.06	F
All in Generation Margin				
	All in Generation Margin Total	$	755,873.06	(G = C + F)

C. Emissions Summary:

Emissions Allowance Summary through November 30, 2014

McKee Run 3 and VanSant Unit 11 (Dover's two units covered by the Clean Air Interstate Rule or CAIR) were not operated during the month of November, so there were no additional emissions during this period.

CAIR EMISSION ALLOWANCE SUMMARY				
Date	**Action**	**SO_2 Allowances**	**NO_x Allowances[1]**	
			Seasonal	**Annual**
1/1/09	2008 Carryover	3,240	0	0
1/1/09	2009 Allocation	2,723	53	80
2/1/10	2010 Allocation	2,039	50	78
1/1/11	2011 Allocation	1,988	49	78
4/1/11	2011 Reallocation		2	4
1/11/12	2012 Allocation	1,988	51	80
10/4/2012	2013 Allocation	1,988	49	76
	2014 Allocation	1,988	49	76
9/29/09	SO_2 Sales	(1,500)		
11/12/09	NO_x Ann. Sales			(45)
11/13/09	SO_2 Sales	(1,410)		
11/20/09	NO_x Seas. Sales		(25)	
12/31/09	2009 Emissions[2]	(1)	(6)	(13)
12/31/10	2010 Emissions	0	(54)	(54)
10/31/10	EPA Linearity Testing Req.		(68)	(68)
2011	2010 Deficit NO_x Purchases		53	22
Aug 2011	Revised 2010 ECMPS data		30	30
Nov 2011	NO_x Seas. Sales (DEMEC)		(1)	
12/31/11	2011 Emissions[2]	(1)	(32)	(36)
12/31/12	2012 Emissions[2]	(1)	(37)	(37)
Nov 2012	NO_x Seas. Sales (DEMEC)		(2)	
2/13/2013	NO_x Annual. Sales (DEMEC)			(3)
11/15/13	NO_x Annual Sales (DEMEC)		(5)	
12/31/13	2013 Emissions	(0)	(20)	(20)
11/30/14	**2014 CYTD Emissions**	**(1)**	**(36)**	**(44)**
REMAINING ALLOWANCES		**13,040**	**99**	**201**

Due to a series of federal court decisions discussed in previous monthly reports, beginning January 1, 2015 the reinstated CSAPR replaces CAIR. The final CAIR true-ups for 2014 will occur in 2015, after which CAIR allowances will have no value. To

[1] Per CAIR, starting in 2009, NOx emissions are governed by a seasonal and annual program.
[2] Under CAIR, pre-CAIR SO2 allowances are retired at a rate of 2 allowances for each ton emitted. It is assumed that pre-CAIR allowances will be retired before CAIR allowances.

avoid confusion, EPA CAMD will remove all post-2014 CAIR allowances from the Allowance Tracking System on March 3, 2015.

While Delaware is included in the CAIR footprint, it is not included in the CSAPR footprint. CAIR allowances cannot be used for CSAPR compliance, so Dover's CAIR allowances will become valueless when CSAPR is reinstated. The separate Clean Air Act acid rain deposition control program which governs SO_2 national allowance trading program will remain in effect, however the CAIR provisions for SO_2 will also disappear for Delaware.

Market liquidity for CAIR allowances is very low, with few transactions occurring. The following table shows estimated values for Dover's banked allowances, based on mid-point of bids and offers from Evolution Markets.

Mark Value for CAIR Allowances			
Commodity	**$/Ton ICE Settlement as of December 12, 2014**	**Tons**	**Market Value**
SO_2 Allowances (2009 & earlier)	$ 0.75	5,089	$ 3,817
SO_2 Allowances (2010-12)	$ 0.38	3,975	1,510
SO_2 Allowances (2013-15)	$0.38	3,976	1,511
NO_x Allowances - Seasonal	$0.00[3]	99	0
NO_x Allowances - Annual	$10.00	201	2,010
TOTAL			**$ 8,848**

Regional Greenhouse Gas Initiative

The State of Delaware is a participant in the Regional Greenhouse Gas Initiative (RGGI). The City of Dover must comply with RGGI by surrendering carbon dioxide (CO_2) allowances pursuant to the State of Delaware's laws (Title 7, Chapter 60, Sub-Title II-A). Delaware adopted a combined emissions allowance allocation/auction mechanism for RGGI, in which 40% of CO_2 allowances were allocated to sources for 2009, declining by 8% per year so that by 2014, all CO_2 allowances are auctioned.

Dover had more than a sufficient number of RGGI allowances allocated to it to cover its requirements through the first compliance period (calendar years 2009-2011). Any unused allowances are carried over ("banked") for subsequent years. The table below shows RGGI allowance allocations, deductions and the cumulative balance by year (column 8).

[3] No ICE or Broker price was available for seasonal NOx allowances

CO2 Allowance Summary (12/15/2014)							
1	2	3	4	5	6	7	8
CO_2 Allowance Vintage	CO_2 Allowances (Sold) Purchased YTD	CO_2 Allowances (Per Facility, Prior to Sale)		Allocated CO_2 Allowances	CO_2 Tons Emitted	Annual CO_2 Allowance Balance	Cumulative Balance
		McKee Run	***VanSant***				
2009	0	60,128	2,056	62,184	(5,796)	56,388	56,388
2010	0	48,102	1,645	49,747	(32,971)	16,776	73,164
2011	0	36,077	1,234	37,311	(17,746)[4]	19,565	92,729
2012	0	27,058	925	27,983	(15,957)	12,026	104,755
2013	0	22,879	1,939	24,818	(10,231)	14,587	119,343
2014	**1,000**	-0-	-0-	-0-	(25,426)	(25,426)	**94,917**

Dover no longer receives allocations of RGGI allowances (columns 3-5). The cumulative balance can be utilized for generation in 2014 and future years. Note that the 2014 emissions through the end of October are larger than four out of the last five years.

Once the banked allowances have been fully utilized, Dover will be required to purchase RGGI allowances through the auctions or through over-the-counter markets. Assuming that Dover does not sell any banked allowances and produces 25,000 tons of CO_2 emissions annually, it should be able to maintain a positive balance through around 2018.

In anticipation of needing additional RGGI allowances in the future, Dover participated in Auction 26 held on December 3, 2014. It submitted a tiered bid totaling 4,000 allowances. It was awarded 1,000 allowances from its highest price bid, with the auction clearing price of $5.21/ton.

Based on the November 18th, 2014 ICE price for the December 2014 strip ($5.30/ton), the estimated market value of Dover's existing 93,917 ton RGGI allowance bank is $503,060.

Renewable Energy Certificates

Dover owns two photovoltaic systems totaling 15 kW, consisting of (one 5 kW unit at the Utilities Administration Building and two 5 kW units at the McKee Run generating station. Dover also receives solar energy produced by the 10 MW Dover Sun Park which is owned by White Oak Solar Energy, LLC. In addition to the all of the physical energy

[4] 2011 and 2012 emissions corrected to match values in RGGI COATS.

produced by the Sun Park, Dover receives 15% of Sun Park's Solar Renewable Energy Credits (SRECS).

Dover participates in the Delaware Municipal Electric Corporation's (DEMEC) Renewable Portfolio Standard (RPS) for compliance with the State of Delaware's RPS laws applicable to municipal utilities. The first compliance period under DEMEC's RPS was for the 36 months ending May 2014.

Through the end of November 2014, Dover had accumulated a total of 6,281 SRECS from these renewable energy resources, net of 2,941 SREC transferred to DEMEC for retirement in accordance with the RPS requirement for the first compliance period.

While Delaware does periodically hold auctions for SRECs, these auctions are for size tiers N1 – N3, E1 and E2. The Dover Sun Park is in the N4 tier for very large facilities. State-wide carve outs for Tier 4 has been fully subscribed, so there is not a market for tier 4 SRECs in Delaware.

The nearest viable market for Dover's SRECs is Pennsylvania. Daily settlement prices from Flett Exchange Environmental services (www.flettexchange.com) were used for 2011/12 through 2014/15 vintage allowances. The December 12, 2014 daily settlement prices for Pennsylvania SRECS are used in the table below.

SREC Vintage (June 1 – May 31)	Market Clearing Price	SREC Balance	Market Value
2012/2013	$23.00	1,834	42,182
2013/2014	$30.00	2,735	82,050
2014/2015	$42.00	1,712	71,904
TOTAL		**6,281**	**$202,136**

TEA continues to recommend to Dover to retain these allowances for compliance with its Renewable Portfolio Standard (RPS) which DEMEC is working on.

D. Operations Management Summary:

During the month of November there were no reportable or lost time accidents or injuries. The facility has now gone 1,508 days without an OSHA recordable accident and 1,508 consecutive days without a lost time reportable accident. There were no Environmental Notices of Violations or exceedances issued. There were two near misses reported. All Units were in a Planned outage during the entire month and therefore had no opportunities to generate for PJM.

Monthly Budget Variance – The actual expenses attributable to O&M of the two sites for the month of November were $296,022 against a budgeted amount of $440,181 for a favorable variance of $144,159 or 32.75%. The principal reasons for the favorable

variance were due to; having one payroll expensed in November rather than the three (3) that were budgeted. This was offset by higher than anticipated electrical costs.

E. Risk Management Summary:

Forward power prices in PJM are mostly unchanged from last month.

The current projected cost of service is below:

PY	Hedge Ratio	Blended Cost ($/MWh)	Monthly Change ($/MWh)
2014-15	80%	$ 46.77	$ 0.05
2015-16	70%	$ 44.21	$ 0.08
2016-17	43%	$ 42.98	$ 0.07
2017-18	37%	$ 43.41	$ (0.19)
2018-19	15%	$ 43.79	$ (0.35)

The Energy Authority®
® The Strategic Partner for Public Power

II. Budget Report

	Budget Nov-14	Actual Nov-14	Variance
Gross Load	**54,377**	**55,903**	**(1,527)**
Power Supply			
Hedged Energy	$1,498,251	$1,897,919	($399,668)
PJM - Energy, Congestion & Losses	$881,253	$567,063	$314,190
PJM - ARR, Transmission and Fees	$554,364	$451,289	$103,075
Dover SUN Park Energy	$104,985	$96,640	$8,345
Dover SUN Park RECs	$26,865	$25,192	$1,673
Management Fees	$83,000	$83,000	$0
PJM - Capacity UCAP Obligated Purchased	$796,901	$786,369	$10,532
Subtotal - Power Supply	**$3,945,619**	**$3,907,473**	**$38,146**
Power Generation O&M			
Plant O&M	$440,181	$296,022	$144,159
Subtotal Generation O&M	**$440,181**	**$296,022**	**$144,159**
Power Generation Production Margin			
PJM - Economic and reliability dispatch	$0	$ -	$0
Fixed Fuel and Transport Charges	$0	$0	$0
Subtotal Generation Production Margin	**$0**	**$ -**	**$0**
Power Generation Non-Production Revenue			
PJM - Generation Capacity Credit	($716,626)	$ (702,347.40)	($14,279)
Capacity Replacement Charge	$10,800	$ -	$10,800
PJM - Black Start & Transmission Losses	($25,210)	$ (53,525.66)	$28,316
Subtotal - Non-Production Revenue	**($731,036)**	**($755,873)**	**$24,837**
SubTotal - All Generation	**(290,855.00)**	**($459,851)**	**$168,996**
Total - Utilities Cost	**$3,654,764**	**$3,447,622**	**$207,142**
Unit Costs			
Total - Power Supply	$72.56	$69.90	$2.66
Total - Power Generation	($5.35)	($8.23)	$2.88
Final Cost of Service to City of Dover Ratepayers	$67.21	$61.67	$5.54

Variance Analysis:

Power Supply

- Dover consumed 1,527 MWh less than forecast for the month.
- PJM transmission and fees were lower than expected with minimal monthly reactive services charges.
- This resulted in a net power supply cost of $69.90/MWh, $2.66/MWh below budget.
- For the month, the city realized a favorable variance of $38,146 for power supply vs. the monthly budget.
- Dover Sun Park generated 79 MWh less than forecast.

Generation

- Power generation had a favorable budget variance of $168,996.
- Plant O&M expenses had a favorable budget variance of $144,159 for the month.

The Energy Authority®
® The Strategic Partner for Public Power

	Budget YTD	Actual YTD	Variance	Source	Formula
Gross Load	328,797	320,151	8,647	PJM load Inschedules + White Oak-Dover invoice	G = (Net PJM Wholesale Load + Dover SunPark Mwh)
Power Supply					
Hedged Energy	$9,632,220	$11,840,748	($2,208,528)	TEA Deal capture system, verified by settlement checking out with counterparties	
PJM - Energy, Congestion & Losses	$5,463,820	$2,816,470	$2,647,350	PJM Invoice	
PJM - ARR, Transmission and Fees	$3,080,486	$2,309,699	$770,787	PJM Invoice	
Dover SUN Park Energy	$820,090	$870,316	($50,226)	White Oak-Dover Invoice	
Dover SUN Park RECs	$183,005	$197,089	($14,084)	White Oak-Dover Invoice	
Management Fees	$415,000	$415,000	$0	Annual Contract	
PJM - Capacity UCAP Obligated Purchased	$4,064,195	$3,992,805	$71,390	PJM Invoice	
Subtotal - Power Supply	$23,658,816	$22,442,128	$1,216,688		A
Power Generation O&M					
Plant O&M	$2,524,755	$2,377,862	$146,893	Monthly NAES report	
Subtotal Generation O&M	$2,524,755	$2,377,862	$146,893		B
Power Generation Production Margin					
PJM - Economic and reliability dispatch	($1,339,680)	($1,946,803)	$607,123	PJM Invoice	
Fixed Fuel and Transport Charges	$966,800	$991,866	($25,066)	TEA Deal capture system, verified by settlement checking out with counterparties and pipeline.	
Subtotal Generation Production Margin	($372,880)	($954,937)	$582,057		C
Power Generation Non-Production Revenue					
PJM - Generation Capacity Credit	($3,654,797)	($3,573,029)	($81,768)	PJM Invoice	
Capacity Replacement Charge	$55,080	$0	$55,080	Budgeted amount for incremental 3.6 mw purchase. Actuals been shown in PJM - Capacity UCAP Obligated purchased.	
PJM - Black Start & Transmission Losses	($207,780)	($274,727)	$66,947	PJM Invoice	
Subtotal - Non-Production Revenue	($3,807,497)	($3,847,756)	$40,259		D
SubTotal - All Generation	($1,655,622)	($2,424,830)	$769,208		E = (B+C+D)
Total - Utilities Cost	$22,003,194	$20,017,297	$1,985,897		F = (A+E)
Unit Costs					
Total - Power Supply	$71.96	$70.10	$1.86		H = (A/G)
Total - Power Generation	($5.04)	($7.57)	$2.54		I = (E/G)
Final Cost of Service to City of Dover Ratepayers	$66.92	$62.52	$4.40		J =(H+I)

The Energy Authority®
® The Strategic Partner for Public Power

Operations Management

NAES Corporation
Dover, Delaware
November 2014
Monthly Report



Hot Water Basin in Unit 3 Cooling Tower Undergoing Repairs as Part of Cooling Tower Refurbishment

The Energy Authority®
® The Strategic Partner for Public Power

Table of Contents

1.0 Environmental, Health, and Safety

2.0 Financial

3.0 Operations

4.0 Maintenance

5.0 CIP

6.0 General Plant Information

7.0 Summary of NAES Performance

1.0 Environmental, Health and Safety:

During the month of November, there were no restricted work days or lost time accidents. The facility has now gone 4 years, one month and 16 days (1,508 days) through November, 2014 without an OSHA Recordable Accident or a Lost Time reportable accident. There were two Near Misses reported in November at McKee Run.

The first Near Miss occurred while a NAES employee was assessing work progress on the Unit 3 Cooling Tower restoration work. The NAES employee observed wood debris falling down inside the tower's fill area. The NAES employee was walking outside the tower. While no one was working inside this section of the tower on any of the lower sections, there was potential to do so because there was no caution tape or other barrier in place that could deter entrance to the area. The NAES employee immediately contacted the NAES liaison who then attempted to contact the contractor foreman. While the NAES employee was waiting for the NAES liaison and the contractor foreman to arrive at the site, he continued to stay in the immediate area to ensure no one entered the tower. However, moments later he observed a contractor laborer enter the cell area to perform cleanup activities in the cold water basin area. The NAES employee immediately asked the worker to get out of the cell area. The worker did as requested. Moments after the worker exited the cold water basin area, several large sections of wood debris fell from overheard.

The second Near Miss occurred at the Unit #3 Cooling Tower during restoration work. While evaluating work progress and safety work practices of the contractor at the Unit #3 cooling tower, two NAES employees observed a wooden 2" x 4" teetering on the edge of a work platform inside the 2nd cell approximately 30' high above the concrete basin. Even though no one was working in the basin at the time of the incident, there was a potential for this debris to bounce off the vertical and horizontal support system and ultimately bounce off the concrete basin injuring someone. The wooden debris could have struck a nearby worker working at various levels below the work platform. The contractor's Supervisor was notified immediately and he subsequently instructed the worker to discard the 2" x 4". The worker carefully dropped the debris from the work platform and onto the concrete basin while no one was working below.

During the month of November, a total of 25.23 tons of Special Waste was generated from the Unit #3 Cooling Tower restoration project. The Special Waste, which is pressure treated wood, was disposed of at Delaware Solid Waste Authority (DSWA) in Sandtown, DE under permit # CSW 14.14.

The plant received no Notice of Violations (NOVs) during the month. The November DMR was submitted for the McKee Run site with no NPDES exceedences. Since no units ran in November, there were no opacity deviations from any unit in November.

During the month of November, there were no IWW discharges to the Kent County Public Works sewer system. Since there were no monthly discharges, no monthly sample was collected. The November SIU Report was still submitted to Kent County Public Works indicating no discharges occurred.

In 2005, the McKee Run Generating Station was classified as a major source of Hazardous Air Pollutants (HAPs) according to 40 CFR 63.9 and 40 CFR 63.7545 because the facility operated three (3) industrial boilers that fired No. 6 fuel oil and had the potential to emit 10 tons of one

pollutant-hydrochloric acid. In 2008, the McKee Run Generating Station converted to No. 2 fuel oil. Due to the conversion, the McKee Run Generating Station has requested DNREC to remove the McKee Run Generating Station from the obligations of any regulatory requirements of 40 CFR 63.9 and 40 CFR 63.7545 at this time.

As part of the wet compression project at VanSant, Heritage/Crystal Clean was retained to thoroughly clean the interior components of the False Start Drain Tank (oil/water separator). Heritage removed any oily water and solids from the pressure washing project with a vacuum truck. The filter screen media was also replaced. All wastes were transported to Heritage's licensed treatment facility in Wilmington, DE.

Environmental, Health, and Safety Statistics		
	Month (November)	Fiscal Year to Date (7/1/14-6/30/15)
NOVs	0	0
Opacity Deviations	0	1
Environmental Deviations	0	0
OSHA Recordable	0	0
OSHA LTA's	0	0
First Aid cases	0	0
Restricted Workday Accident	0	0
Near Miss	2	12
Man Hours Worked	3,768.5	75,272.25
Date last OSHA Recordable		10/14/10
Date last Lost Time Accident		10/14/10
Days since last OSHA recordable		1,508
Days since last Lost Time Accident		1,508

CAIR NOx Allowances Summary*

CAIR NOx Allowance Vintage	CAIR NOx Allowances Sold YTD	NOx Allowances Available (Per Facility, Prior to Sale)		Total NOx Tons Emitted (Yr/ Season) McKee Run - VanSant	CAIR NOx Allowances Purchased YTD	NOx Allowance Balance	
		McKee Run (Yr/Season)	*VanSant (Yr/Season)*			*McKee Run* (Yr/Season)*	*VanSant* (Yr/Season)*
2013 and earlier						160/78	9/8
2014	0	71/46	5/3	40/35 - 4/1	0/0 – 0/0	31/11	1/2
				Total NOx Allowance Balance		**191/89**	**10/10**

***Note – Emissions allowances are deducted according to oldest vintage first or unless otherwise directed.**
****Note – The facility transferred Ozone Season allowances to a third party.**

SO_2 Allowances Summary

SO_2 Allowance Vintage	SO_2 Allowances Sold - YTD	SO_2 Allowances Available (Per Unit, Prior to Sale & Reconciliation)		Total SO_2 Tons Emitted– U3 and U11 YTD	SO_2 Allowances Balance*
		Unit #3	*Unit #11*		
2013 and earlier	0	10,365	690	2	11,053
2014	0	1850	138	1	1,987
			Total SO2 Allowance Balance		**13,040**

***Note – Emissions allowances are deducted according to oldest vintage first, unless otherwise directed.**

CO2 Allowances Summary					
CO2 Allowance Vintage	**CO2 Allowances Sold YTD**	**CO2 Allowances Available (Per Facility, Prior to Sale)**		**Total CO2 Tons Emitted**	**CO2 Allowance Balance**
		McKee Run	***VanSant***		
2013 and earlier	0	194,244	7,799	82,700**	119,343**
2014	0	0	0	25,426	(25,426)
			Total CO2 Allowance Balance		**93,917****

***Note: CO2 allowance values are provided by the RGGI CO2 Allowance Tracking System.**
Note: All emissions (NOx, SO2 and CO2) totals for 2013 are unofficial.
#Note: Additional CO2 Emission Values were added to 2013 balances by RGGI COATS- 7,846.757 for McKee Run and 1,424.677 for VanSant
****Note: 2011 and 2012 Emissions in previous reports were incorrect. The October 2014 Report now correctly reflects the actual emissions.**

NOx Summary – Ozone Season (May-Sep) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	1.2	1.0	35.8	1.0	33.1
2013	1.1	1.7	19.3	1.3	23.4
2014	0.4	0.6	35.0	0.8	36.8
NOx Summary - Year (Jan-Dec) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	1.2	1.1	35.8	1.0	36.9
2013	1.1	1.7	19.4	1.3	23.5
2014	0.8	1.1	39.8	3.7	45.4
SO_2 Summary - Year (Jan-Dec) Tons					
Year	*Unit #1*	*Unit #2*	*Unit #3*	*Unit #11*	*TOTAL*
2012	0.0		0.0	0.1	0.1
2013	0.0	0.0	0.0	0.2	0.2
2014	0.0	0.0	0.4	0.6	1.0

2.0 Financial

Financial – Current Month

Month – November			
	Actual	Budget	Variance
Personnel	116,654	309,200	192,546
Materials & Supplies	14,574	12,700	(1,874)
Administrative Expenses	164,794	118,281	(46,513)
Total	**$296,022**	**$440,181**	**$144,159**

Financial – Fiscal Year to Date

Number of Months – 5			
	Actual	Budget	Variance
Personnel	1,203,650	1,419,800	216,150
Materials & Supplies	185,685	134,850	(50,835)
Administrative Expenses	988,527	970,105	(18,422)
Total	**$2,377,862**	**$2,524,755**	**$146,893**

2.1 Variance analysis:

The actual expenses for the month of November are $296,022 against a budgeted amount of $440,181 for a favorable variance of $144,159 or 32.75%. The variance was due to the following:

PERSONNEL EXPENSES – A favorable monthly variance of $192,546 was due to one (1) payroll period being expensed versus the three (3) that were budgeted. Two (2) of the payrolls were invoice timing issues with one being at the beginning of November and one at the end of November. As a result, this impacted three (3) labor accounts – Straight Time, Overtime, and Labor Burdens.

MATERIALS AND SUPPLIES EXPENSES- An unfavorable monthly variance of $1,874 was due to higher than budgeted water and sewer costs than was originally budgeted.

ADMINISTRATIVE EXPENSES – An unfavorable monthly variance of $46,513 due to higher than anticipated electricity costs. In addition, the environmental liability insurance was expensed in November and had been budgeted in a previous month.

The forecasted expenses for this fiscal year are $6,088,900 expensed versus an approved budget of $6,141,100 thereby realizing a 99.15% expenditure rate.

3.0 Operations

Unit Operations / Outages / Trips: On September 29, a planned outage was started on all units and is scheduled until December 1, 2014 at 0700 hours on Units 1, 2 and 11. The Unit 3 outage was extended until December 11, 2014 due to continuing work on Unit 3 Cooling Tower. Additional fuel oil was purchased to increase inventories and to take advantage of lower fuel pricing in preparation of possible winter dispatch when natural gas may not be available.

Month - November 2014							
		McKee Unit 1	McKee Unit 2	McKee Unit 3	MRS Facility	VanSant Unit 11	Total All Units
Capacity	MW	17	17	102	136	39	175
On Line Hours	Hrs	0.0	0.0	0.0	0.0	0.0	0.0
Starts	#	0	0	0	0	0	0
Gross Generation	MWh	0.0	0.0	0.0	0.0	0.0	0.0
Net Generation	MWh	0.0	0.0	0.0	0.0	0.0	0.0
Total Auxiliaries	MWh	0.0	0.0	0.0	0.0	0.0	0.0
Auxiliaries purchased	MWh	25.060	25.060	167.913	218.033	4.479	222.512
Fuel Gas Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	Gallons	0.0	0.0	0.0	0.0	0.0	0.0
Total Fuel	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Net Heat Rate	BTU/KWh	0.0	0.0	0.0	0.0	0.0	0.0
Unit Trips	#	0	0	0	0	0	0
Capacity Factor	%	0.0	0.0	0.0	0.0	0.0	0.0
Availability Factor	%	0.0	0.0	0.0	0.0	0.0	0.0
Commercial Unavailability (CU)	%	0.0	0.0	0.0	0.0	0.0	0.0
Planned Outage Hours	Hours	720.000	720.000	720.000	2,160.000	744.000	2,880.000
Maintenance Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Forced Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Reserve Shutdown Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
HW Boiler Gas Usage	MMBTU				706.095		706.095
Pilot Gas Usage	MMBTU	0.0	0.0		0.0		0.0

 # Note: Does not include HWB or Pilot Gas. Fuel usage numbers are taken from fuel flow instruments.

The Energy Authority®
® The Strategic Partner for Public Power

2014-2015 Fiscal Year-to-Date (5 Months)							
		McKee Unit 1	McKee Unit 2	McKee Unit 3	MRS Facility	VanSant Unit 11	Total All Units
Capacity	MW	17	17	102	136	39	175
On Line Hours	Hrs	30.966	35.134	433.682	499.782	17.350	517.132
Starts	#	3	5	33	41	5	46
Gross Generation	MWh	261.694	252.941	22,525.426	23,040.061	578.081	23,618.142
Net Generation	MWh	247.853	233.930	20,511.856	20,993.639	567.702	21,561.341
Total Auxiliaries	MWh	142.049	147.219	3,276.542	3,565.810	10.633	3,576.443
Auxiliaries purchased	MWh	128.208	128.208	1,313.092	1,569.508	10.254	1,579.762
Fuel Gas Used	MMBTU	3,780.381	3,255.417	238,464.654	245,500.452	7,544.726	253,045.178
Fuel Oil Used	MMBTU	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Oil Used	Gallons	0.0	0.0	0.0	0.0	0.0	0.0
Total Fuel	MMBTU	3,780.381	3,255.417	238,464.654	245,500.452	7,544.726	253,045.178
Net Heat Rate	BTU/KWh	15.253	13.916	11.825	13.664	13.278	13.471
Unit Trips	#	1	3	0.0	4	1	5
Capacity Factor	%	0.40	0.37	5.48	4.14	0.40	3.30
Availability Factor	%	59.01	59.01	58.81	58.94	59.01	58.96
Commercial Unavailability (CU)	%	0.0	0.0	0.21	0.07	0.0	0.05
Planned Outage Hours	Hours	1,505.000	1,505.000	1,505.000	4,515.000	1,505.000	6,020.000
Maintenance Outage Hours	Hours	0.0	0.0	0.0	0.0	0.0	0.0
Forced Outage Hours	Hours	0.0	0.0	7.667	7.667	0.0	7.667
Reserve Shutdown Hours	Hours	2,136.034	2,131.866	1,725.651	5,993.551	2,149.650	8,143.201
HW Boiler Gas Usage	MMBTU				706.095		706.095
Pilot Gas Usage	MMBTU	527.631	527.631		1,055.263		1,055.263

Fuel Oil Inventory							
	Monthly Inventory (Start)	Monthly Inventory (End)	Fuel Purchases (Month)	Monthly Inventory (Change)	FY 14-15 Inventory (Start)	Fuel Purchases (FYTD)	FY 14-15 Inventory (Change)
McKee Run (#2 Fuel Oil)	667,988	679,444	15,060	11,456	452,963	234,351	226,481
VanSant (#2 Fuel Oil)	130,879	180,433	51,703	49,554	73,572	111,224	106,861

Note: As measured by tank level instruments. Tank levels may change due to oil temperature.

VanSant Lifetime through November 2014			
	Actual Starts	Factored Starts	Fired Hours
VanSant	1372	2,349.75	4,333.90
Since HGP - Dec 2004	261	682.05	950.32

Team Report:

The Operations staff continued to support maintenance activities during the planned outage by serving as Confined Space Attendants for confined space areas as well as other support tasks. The Operations staff has also supported the outage by clearing various LO/TO tasks to put equipment back in service to make the units available to the PJM system once the outage is cleared.

Operations personnel continue to support maintenance by working on Preventative Maintenance (PM) work orders and other work orders that they have the skills to successfully complete the task. The Operations Department continues to utilize the Day Shift Workers in both the Operations and Maintenance areas to help in maintaining the plant.

Capacity Testing – FY 2014-2015

Summer 2014 (June 1- Aug 31)			**Winter 2014-2015 (Dec 1- Feb 28)**		
Unit	Rated Net Capability (MW)	Reported Net Capability (MW)	Unit	Rated Net Capability (MW)	Reported Net Capability (MW)
1	17	17.4	1	17	17*
2	17	17.5	2	17	17*
3	102	103.99	3	102	102*
11	39	39.8#	11	39	39*
Total	175	175	Total	175	175

Note: * Denotes Unit is qualified for the PJM Winter Demonstration Period Exemption Program.
Note: # Depicts Net Corrected Capacity for Ambient Air Conditions – VanSant Unit only

4.0 Maintenance

During the month of November, the Plant Maintenance staff continued addressing the backlog of work orders. There were forty-seven work orders issued with thirty-seven work orders being completed during the month. There were no safety work orders entered into the plant's Computerized Maintenance Management System (MP2) during the month. The table below summarizes the monthly work order activities.

Work Order Report

November - 2014

Priority #	Outstanding From Previous Month	Issued This Month	Completed This Month	Outstanding at the end of the month
1	23	7	6	23
2	44	4	6	42
3	40	0	0	40
4	5	1	0	6
5	13	1	0	14
SW1	0	0	0	1
SW2	0	0	0	0
SW3	0	0	0	0
SW4	0	0	0	0
SW5	0	0	0	0
PM	47	34	25	56
EM	0	0	0	0
Totals	172	47	37	182

Note: PM Work Orders are included in the priority totals

Notable activities during the month include:

The NAES Maintenance staff assisted Heritage Environmental with the cleaning of the False Start Drain Tank at Vansant Generating Station. The staff changed out the coalescent filter media in the tank after the tank was cleaned. It was then placed back into service.

The NAES Maintenance Staff removed and replaced the inlet and by-pass valve for Unit 1 Hotwell. The valves were leaking by causing the Hotwell level to swing causing a possible issue while operating the unit. With the replacement of these valves, the Operations staff will have better control in maintaining the proper hotwell level.

The NAES Maintenance Staff assisted the XL Insurance boiler inspector with the inspection the three boilers at the McKee Run Generating Station. There were no issues with any of the inspections of the boilers. While at the site, the boiler inspector also inspected all the non-fired pressure vessels. There were three issues found during the inspection which were promptly corrected while the inspector was at the plant site.

5.0 Capital Improvement Projects (CIP)

Project Number	Description	Update
EG1212	Unit 3 Turbine Repairs	Progress: All work planned is now complete. Follow-up activities include contacting suppliers for the replacement of the damaged rotor expansion instrumentation. This equipment is obsolete and will be replaced with current technology. Replacement of other turbine supervisory instrumentation will also be investigated. High vibration experienced during hot starts will require an additional balancing. Plant staff is collecting data that will help determine where and how much balance weight will need to be installed in the next outage. Schedule: Continuing to pursue the replacement rotor expansion instrumentation and evaluate balancing of turbine-generator for Spring 2015 Outage.
EG1402	Unit #3 Cooling Tower Repairs	Progress: Contractor began work on September 29 and continued work throughout the month. Fill material, transitional sections, several louvers to gain access to the fill section were removed as well as a number of defective columns were removed and replaced. Schedule: Demolition activities in the fill area of additional columns (defective) and hot water basin planking were completed in November. Installation of new materials began throughout the month. However, project is behind schedule and additional funds were needed to address failed wood support columns in the Hot Water Basin area.
EG1406	McKee Run HEP Pipe Repairs	Progress: Work is complete however final report has not yet been received. Schedule: Final report expected in November or December time period.
EG1407	Metering System Upgrades	Progress: Work scope is still being developed for an RFP. COD staff is continuing their efforts to remake the communication link with Cartanza. Schedule: Work activities are moving forward. Working with COD staff to finalize RFP documents for release later in the calendar year.
EG1416	VanSant Capacity Increase	Progress: No progress made during the month due to plant maintenance support of planned outage. Schedule: Electrical equipment due to be received in early December. Coordination with contractor to install equipment and make tie-ins is forthcoming. Other miscellaneous materials are on order including the MCC sections and are currently waiting for delivery.
EG1503	Unit #3 Auxiliary System Component Replacement	Progress: Work scopes being developed for the Spring 2015 Outage. Most of work in process of being completed in Fall 2014 Outage. Schedule: Spring 2015 Outage work scopes being developed.
EG1504	Unit#3 Boiler System Repairs	Progress: Work scopes being developed for the Spring 2015 Outage. Planned work for Fall 2014 Outage is complete. Schedule: Fall 2014 work commenced in October and was completed in November. Spring 2015 Outage work scopes being developed.
EG1505	VanSant Station Component Replacement	Progress: Work scope is being deferred until next FY. Schedule: Work scopes will continue to be developed for next fiscal year.

EG1506	McKee Run/VanSant Safety Improvements	Progress: Contract had been awarded and parts were ordered. Schedule: Work activities planned for completion in Fall 2014 outage and spring 2015. Parts are on order and expected to arrive in early December. Installation will commence once parts arrive. Some work will require planned power outage to accomplish tie-in of circuitry and equipment.
EG1507	McKee Run Units #1-#2 Component Replacement	Progress: Project on Hold Schedule: Project on Hold
EG1508	McKee Run/VanSant Structural Preservation	Progress: Plant staff completed development of paint specifications and bid requests were to be received in mid-August. Schedule: Bids will be evaluated and determination made thereafter as to how to proceed. Work will need to be completed in warmer temperatures, spring 2015

6.0 General Plant Information

New Administrative Assistant has been hired pending physical examination results. Early December start date is expected.

On-going efforts are being made to fill two (2) open Operator positions. Interviews have been held in this effort.

Training:

Onsite forklift training has been held for Maintenance and Operations staff members by Boyd Lord, Materials Coordinator, on how to use manufacturers forklift attachments.

Topics discussed during the monthly safety committee meeting were reviewed by the entire staff. The monthly safety topic was on “Safe Driving Tips for Thanksgiving Travel”.

Calendar of Events	Date
Units 1, 2, 3 and 11 Fall Outage Starts	September 29, 2014
Four Year Accident Free	October 14, 2014
NPDES Permit Expires (DNREC has Extended)	November 1, 2014
Winter Capacity Period	December 1, 2014 to February 28, 2015
NOx Emissions Reconciliation Due	March 1, 2015
SO2 Emissions Reconciliation Due	March 1, 2015
SARA III / Tier II Report Due	March 1, 2015
Units 1, 2, and 3 Spring Outage	TBD – Spring 2015
Unit 11 Spring Outage	TBD – Spring 2015
Air Emission Inventory	April 30, 2015
NOx Ozone Season Starts	May 1, 2015
PJM Summer Capacity Test Period	June 1, 2015 – August 31, 2015
FY 2014-201454 Budget Year Begins	July 1, 2015
Toxic Release Inventory (TRI) Annual Report	July 1, 2015
Semi-Annual Title V Certification Due	July 31, 2015
NOx Ozone Season Ends	September 30, 2014
Annual VanSant Black Start Test	TBD

7.0 Summary of NAES Performance to Date

Measure	Plant Performance FY 2014-2015 Month		Year to Date		YTD Incentive	FY Maximum Incentive
Commercial Unavailability (CU)	0.00%		0.05%		$94,679	$96,875
Safety	0		0		$18,163	$18,163
Environmental	0		0		$18,163	$18,163
Capacity Tests Completed	Summer	Winter	Summer	Winter		
Unit 1	No	No	Yes	No	$3,634	$3,634
Unit 2	No	No	Yes	No	$3,634	$3,634
Unit 3	No	No	Yes	No	$21,797	$21,797
Unit 11	No	No	Yes	No	$7,266	$7,266
Total YTD Incentive %	98.7%		***Total YTD Incentive***		$167,335	$169,532

Note*: All units have successfully completed the Summer (FY 2014-2015) Testing for PJM and are now entered in the PJM Winter Capacity Test Exemption Program.

The Energy Authority®
® The Strategic Partner for Public Power

III. Appendix 1 – PJM Invoice Breakdown

		Gen	Load	Grand Total
⊟ 480-8102-592-95-49	Capacity Resource Deficiency		($1,680.86)	($1,680.86)
	Capacity Transfer Rights		$58.80	$58.80
	Locational Reliability		$787,991.40	$787,991.40
480-8102-592-95-49 Total			**$786,369.34**	**$786,369.34**
⊟ 480-8102-592-95-50	RPM Auction	($702,347.40)		($702,347.40)
480-8102-592-95-50 Total		**($702,347.40)**		**($702,347.40)**
⊟ 480-8102-592-95-90	Auction Revenue Rights		($53,198.10)	($53,198.10)
	Balancing Operating Reserve		$3,639.56	$3,639.56
	Balancing Operating Reserve for Load Response		($0.68)	($0.68)
	Black Start Service		$2,827.24	$2,827.24
	CT Lost Opportunity Cost Allocation		($46.80)	($46.80)
	Day-Ahead Load Response Charge Allocation		$100.74	$100.74
	Day-ahead Operating Reserve		$5,335.52	$5,335.52
	Day-ahead Scheduling Reserve		$0.50	$0.50
	Expansion Cost Recovery		$408.30	$408.30
	FERC Annual Recovery		$3,949.34	$3,949.34
	Generation Deactivation Refund		($676.11)	($676.11)
	Load Reconciliation for Transmission Losses		$35.42	$35.42
	Market Monitoring Unit (MMU) Funding		$226.23	$226.23
	Michigan - Ontario Interface Phase Angle Regulators		$191.81	$191.81
	Network Integration Transmission Service		$406,720.80	$406,720.80
	Non-Firm Point-to-Point Transmission Service		($731.64)	($731.64)
	Non-Synchronized Reserve		$785.71	$785.71
	North American Electric Reliability Corporation (NERC)		$601.94	$601.94
	Organization of PJM States, Inc. (OPSI) Funding		$39.41	$39.41
	PJM Annual Membership Fee		$5,000.00	$5,000.00
	PJM Scheduling, System Control and Dispatch Service - Advanced Second Control Center		$1,473.30	$1,473.30
	PJM Scheduling, System Control and Dispatch Service - Capacity Resource/Obligation Mgmt.		$921.90	$921.90
	PJM Scheduling, System Control and Dispatch Service - Control Area Administration		$9,518.91	$9,518.91
	PJM Scheduling, System Control and Dispatch Service - Market Support		$2,183.67	$2,183.67
	PJM Scheduling, System Control and Dispatch Service - Market Support Offset		($219.43)	($219.43)
	PJM Scheduling, System Control and Dispatch Service - Regulation Market Administration		$77.99	$77.99
	PJM Scheduling, System Control and Dispatch Service Refund - Capacity Resource/Obligation Mgmt.		($111.90)	($111.90)
	PJM Scheduling, System Control and Dispatch Service Refund - Control Area Administration		($1,299.56)	($1,299.56)
	PJM Scheduling, System Control and Dispatch Service Refund - Market Support		($299.87)	($299.87)
	PJM Scheduling, System Control and Dispatch Service Refund - Regulation Market Administration		($13.28)	($13.28)
	PJM Settlement, Inc.		$219.43	$219.43
	Reactive Services		$3,274.98	$3,274.98
	Reactive Supply and Voltage Control from Generation and Other Sources Service		$36,161.63	$36,161.63
	Real-Time Load Response Charge Allocation		$172.39	$172.39
	Regulation and Frequency Response Service		$11,362.61	$11,362.61
	Reliability First Corporation (RFC)		$855.14	$855.14
	Synchronized Reserve		$5,066.94	$5,066.94
	Transmission Enhancement		$2,554.55	$2,554.55
	Transmission Owner Scheduling, System Control and Dispatch Service		$4,180.03	$4,180.03
480-8102-592-95-90 Total			**$451,288.62**	**$451,288.62**
⊟ 480-8102-592-95-91	Balancing Spot Market Energy		($33,776.09)	($33,776.09)
	Balancing Transmission Congestion		$1,711.16	$1,711.16
	Balancing Transmission Losses		($768.10)	($768.10)
	Day-ahead Spot Market Energy		$444,106.45	$444,106.45
	Day-ahead Transmission Congestion		$106,659.82	$106,659.82
	Day-ahead Transmission Losses		$58,220.11	$58,220.11
	Inadvertent Interchange		($367.54)	($367.54)
	Load Reconciliation for Balancing Operating Reserve		($9.63)	($9.63)
	Load Reconciliation for Day-ahead Scheduling Reserve		($0.01)	($0.01)
	Load Reconciliation for FERC Annual Recovery		($5.43)	($5.43)
	Load Reconciliation for Inadvertent Interchange		$0.11	$0.11
	Load Reconciliation for Market Monitoring Unit (MMU) Funding		($0.30)	($0.30)
	Load Reconciliation for Non-Synchronized Reserve		($0.22)	($0.22)
	Load Reconciliation for North American Electric Reliability Corporation (NERC)		($0.83)	($0.83)
	Load Reconciliation for Organization of PJM States, Inc. (OPSI) Funding		($0.05)	($0.05)
	Load Reconciliation for PJM Scheduling, System Control and Dispatch Service		($15.99)	($15.99)
	Load Reconciliation for PJM Scheduling, System Control and Dispatch Service Refund		$0.79	$0.79
	Load Reconciliation for Reactive Services		($2.12)	($2.12)
	Load Reconciliation for Regulation and Frequency Response Service		($17.59)	($17.59)
	Load Reconciliation for Reliability First Corporation (RFC)		($1.18)	($1.18)
	Load Reconciliation for Schedule 9-6 - Advanced Second Control Center		($2.18)	($2.18)
	Load Reconciliation for Spot Market Energy		($3,266.34)	($3,266.34)
	Load Reconciliation for Synchronized Reserve		($1.30)	($1.30)
	Load Reconciliation for Transmission Congestion		($322.69)	($322.69)
	Load Reconciliation for Transmission Losses		($126.73)	($126.73)
	Load Reconciliation for Transmission Owner Scheduling, System Control and Dispatch Service		($5.75)	($5.75)
	Meter Error Correction		($4,944.96)	($4,944.96)
480-8102-592-95-91 Total			**$567,063.41**	**$567,063.41**
⊟ 480-8102-592-95-93	Reactive Supply and Voltage Control from Generation and Other Sources Service	($29,467.58)		($29,467.58)
	Transmission Losses	($24,058.08)		($24,058.08)
480-8102-592-95-93 Total		**($53,525.66)**		**($53,525.66)**
Grand Total		**$ (755,873.06)**	**$ 1,804,721.37**	**$1,048,848.31**

FUND SUMMARY as of 12/10/2014

Total Collected	$	1,093,392.34
DEMEC Admin Fee Paid	$	62,533.12
State Admin Fee Paid	$	24,316.32
Customer Grants Paid	$	533,263.25
Customer Only Grants/Fees Reserved and Amount Owed	$	4,722.50
Community Project Funds Requested - Dov. Lib - Requested	$	1,970,000.00
Community Project Funds Paid - Dov. Lib	$	298,908.32
Energy Depot Fees Paid	$	55,209.64
Efficiency Program Dollars Paid	$	37,268.34
Solar Electric Power Association (SEPA) Fee Paid	$	6,476.41
Unencumbered Funds Available Grants	**$**	**5,694.44**
Funds Available for Dover Library	**$**	**65,000.00**
Current Grant Payment Delay (Months)		**0.0**

GRANTS PAID

Date Grant Paid	Applicant	Type	Grant Amount Paid	Review Fee Paid	Amount Owed
9/21/2007	Laura Drew Kelly	Geo-Res	$ 3,000.00	$ 225.00	$ -
12/5/2007	Domingo Reyes	PV-Res	$ 12,762.50	$ 750.00	$ -
4/16/2008	Lakeland Commercial Group	Geo-NonRes	$ 10,800.00	$ 750.00	$ -
6/19/2008 & 08/25/2008	L.D. Shank - Triad Farms	PV-NonRes	$ 30,000.00	$ 750.00	$ -
10/6/2008	City of Dover	PV-NonRes	$ 40,820.00	$ 750.00	$ -
10/21/2008	Robert & Cynthia Hartman	Geo-Res	$ 1,800.00	$ 135.00	$ -
10/21/2008	Robert Varipapa	Geo-Res	$ 2,400.00	$ 180.00	$ -
2/27/2009	David Jump	PV-Res	$ 15,000.00	$ 750.00	$ -
2/27/2009	Jakob Seren	PV-Res	$ 15,000.00	$ 750.00	$ -
2/27/2009	William Sweet	PV-Res	$ 15,000.00	$ 750.00	$ -
3/31/2009	LD Shank - Triad Farms	SHW-NonRes	$ 3,000.00	$ 225.00	$ -
3/31/2009	Warren & Joan Seaver	Geo-Res	$ 3,000.00	$ 225.00	$ -
4/22/2009	William Sweet	SHW-Res	$ 3,000.00	$ 225.00	$ -
4/28/2009	State of DE/DNREC - DE National	PV-NonRes	$ 30,000.00	$ 750.00	$ -
4/29/2009	Delaware Primary Care, LLC	PV-NonRes	$ 30,000.00	$ 750.00	$ -
9/11/2009	NCALL	PV-NonRes	$ 30,000.00	$ 750.00	$ -
9/11/2009	D.Brian Beckman	Geo-Res	$ 2,000.00	$ 150.00	$ -
9/21/2009	LSKC Dover, LLC - Kids Cottage	PV-NonRes	$ 29,925.00	$ 750.00	$ -
10/5/2009	Mark F. Boller	Geo-Res	$ 3,000.00	$ 225.00	$ -
10/5/2009	John Welgan	PV-Res	$ 15,000.00	$ 750.00	$ -
11/4/2009	LSKC LLC/ Kids Cottage	Geo-NonRes	$ 12,000.00	$ 750.00	$ -
3/25/2010	James G. McGiffin Jr. & Kathleen	Geo-Res	$ 3,000.000	$ 225.000	$ -
3/23/2010	Minaxi Patel	PV-Res	$ 15,000.000	$ 750.000	$ -
5/28/2010	Nancy Warner	Geo-Res	$ 1,200.000	$ 90.000	$ -
6/2/2010	David Teel	Geo-Res	$ 1,800.000	$ 135.000	$ -
6/2/2010	Dewey J. Barich	Geo-Res	$ 2,400.00	$ 180.000	$ -
7/12/2010	Mike & Sharon Laverty	PV-Res	$ 5,105.000	$ 382.880	$ -
8/19/2010	James Grilli	Geo-Res	$ 1,800.00	$ 135.000	$ -
8/19/2010	Michael Noble	PV-Res	$ 15,000.000	$ 750.000	$ -
9/17/2010	David Teel	PV-Res	$ 7,500.000	$ 562.500	$ -
3/8/2011	Michael & Carol Apgar	PV-Res	$ 7,500.000	$ 562.500	$ -
3/17/2011	Elizabeth Murphey School	Geo-NonRes	$ 9,200.000	$ 690.000	$ -
5/24/2011	Richard Avant	Geo-Res	$ 2,400.000	$ 180.000	$ -
6/23/2011	Charles Messina Plumbing &	SHW-NonRes	$ 10,000.000	$ 750.000	$ -
10/4/2011	Charles Bounds	Geo-Res	$ 1,800.000	$ 135.000	$ -
3/29/2011	Michael J Kopp	Geo-Res	$ 2,300.000	$ 135.000	$ 37.500
7/8/2011	Psychiatric Access of Central DE	PV-NonRes	$ 13,187.500	$ 750.000	$ -
3/7/2012	Ruth Ann Piper	Geo-Res	$ 1,200.000	$ 90.00	$ -
3/7/2012	Robert Hall	Geo-Res	$ 3,000.000	$ 225.00	$ -
3/7/2012	Elizabeth Murphey School (Bradford	Geo-NonRes	$ 13,800.000	$ 750.00	$ -
3/7/2012	Elizabeth Murphey School (Florence	Geo-NonRes	$ 12,000.000	$ 750.00	$ -
3/7/2012	Elizabeth Murphey School	Geo-NonRes	$ 5,400.000	$ 405.00	$ -
3/7/2012	Elizabeth Murphey School (Garage	Geo-NonRes	$ 1,800.000	$ 135.00	$ -
3/7/2012	Frank Daniels	Geo-Res	$ 4,400.000	$ 303.75	$ 26.25
3/7/2012	Elizabeth Murphey School (Sanford	Geo-NonRes	$ 10,200.00	$ 750.00	$ -
8/15/2012	Chong S. Tamburo-Lepage	Geo-Res	$ 2,300.00	$ 172.50	$ -
12/19/2012	Christopher W. Los	Geo-Res	$ 3,000.00	$ 225.00	$ -
1/30/2013	Matthew and Kimberly Chesser	Geo-Res	$ 3,000.00	$ 225.00	$ -
2/25/2013	Dennis Ho	PV-Res	$ 6,775.00	$ 508.13	$ -
6/28/2013	John DeMarie	Geo-Res	$ 3,000.00	$ 225.00	$ -
10/30/2013	James and Corinna Fritsch	PV-Res	$ 5,287.50	$ 396.56	$ -
10/30/2013	James and Deri Austin	PV-Res	$ 7,500.00	$ 562.50	$ -
2/28/2014	Calogero Guarraggi	PV-Res	$ 7,500.00	$ 562.50	$ -
2/28/2014	Elizabeth Murphey School	Geo-NonRes	$ 3,700.00	$ 277.50	$ -
2/21/2014	Mohammed Fuad	Geo-Res	$ 3,000.00	$ -	$ 225.00
4/8/2014	Holly Pfeifer	PV-Res	$ 5,750.00	$ -	$ 431.25
5/13/2014	Governors Avenue Animal Hospital	PV-NonRes	$13,550.75	$ -	$ 750.00
7/17/2014	Julia M. Pillsbury	Geo-Res	$ 3,000.00	$ -	$ 225.00
11/7/2014	Elizabeth Murphey School	Geo - NonRes	$ 3,700.00	$ -	$ 277.50
11/7/2014	Elizabeth Murphey School	Geo - NonRes	$ 3,700.00	$ -	$ 277.50
		Total	**$ 525,863.25**	**$ 24,316.32**	**$ 2,250.00**

ARRA RELIEF GRANTS PAID

Paid by State	Customer	System Type	Amount
6/10/2011	Arturo Sanchez	Solar - PV - Res	$ 7,500.00
10/19/2011	John Diamond Enterprise LLC	Solar - PV - Com	$ 30,000.00
10/19/2011	John Diamond Enterprise LLC	Geo HP - Com	$ 10,000.00
		Total	**$ 47,500.00**

RECEIVED APPLICATIONS

Status	Applicant	Type	Grant Reservation Request	Review Fee
Approved Pending Completion	Rex Bell	Geo - Res	$ 2,300.00	$ 172.50
		Total	**$ 2,300.00**	**$ 172.50**

ENERGY DEPOT FEES

Paid	Fee Period	Amount
3/3/2008	Start-up Fees	$ 5,872.50
4/15/2008	Start-up Fees	$ 1,957.50
4/15/2008	Mar, Apr, May 2008	$ 1,692.13
7/22/2008	June, July, Aug 2008	$ 1,692.13
10/10/2008	Sept, Oct, Nov 2008	$ 1,692.13
1/2/2009	Dec 08, Jan, Feb 2009	$ 1,692.13
4/3/2008	Mar, Apr, May 2009	$ 1,692.13

SEPA Fees

Date	Measure	Cost
3/19/2012	2012 Annual Membership	$ 2,158.81
1/31/2013	2013 Annual Membership	$ 2,158.80
1/24/2014	2014 Annual Membership	$ 2,158.80

7/1/2009	June, July, Aug 2009	$	1,692.13
9/11/2009	Sept, Oct, Nov 2009	$	1,692.13
1/4/2010	Dec 09, Jan, Feb 2010	$	1,692.13
3/29/2010	Mar, April, May 2010	$	1,692.13
6/30/2010	June, July, Aug 2010	$	1,692.13
10/4/2010	Sept, Oct, Nov 2010	$	1,692.13
1/3/2011	Dec 2010, Jan, Feb 2011	$	1,692.13
4/5/2011	Mar, Apr, May 2011	$	1,692.13
7/8/2011	June, July, Aug 2011	$	1,692.13
10/4/2011	Sept, Oct, Nov, 2011	$	1,692.13
1/3/2012	Dec 2011; Jan, Feb 2012	$	1,692.13
4/5/2012	Mar, Apr, May 2012	$	1,692.13
7/2/2012	June, July, Aug 2012	$	1,692.13
10/2/2012	Sept, Oct, Nov 2012	$	1,692.13
11/30/2012	Dec 12, Jan, Feb 2013	$	1,692.13
2/25/2013	Mar, Apr, May 2013	$	1,692.13
7/22/2013	June, July, Aug 2013	$	1,692.13
8/26/2013	Sept, Oct, Nov, 2013	$	1,692.13
12/3/2013	Dec 13. Jan, Feb 2014	$	1,692.13
3/4/2014	Mar, Apr, May 2014	$	1,692.13
6/4/2014	June, July, Aug 2014	$	1,692.13
9/4/2014	Sept, Oct, Nov 2014	$	1,692.13
12/1/2014	Dec 14, Jan, Feb 2015	$	1,692.13
	Total Paid	**$**	**55,209.64**

Total		**$ 6,476.41**

ENERGY EFFICIENCY CAMPAIGNS/EDUCATION PROGRAMS

Paid	Program Measure	Amount
10/21/2008	1,500 CFL Campaign & Educational	$ 5,012.29
12/11/2008	Reimbursement for Green Energy/Information Pamphlets	$ 3,459.12
3/31/2009	Thermal Imager for Home Audits Program	$ 5,581.12
1/4/2011	Eco @ Home Energy Conserve. Calendars	$ 20,015.81
1/14/2014	Presbyterian Church of Dover - Energy Efficiency Grant	$3,200.00
	Total	**$ 37,268.34**

10/30/2013 **Dover Library Community Grant Payment Schedule**

Payment Due Date	Requested Amount	Funds Paid to Date
10/17/2011	$ 48,267.00	$ 48,267.00
12/5/2012	$ 152,141.32	$ 152,141.32
June 1, 2014	$ 98,500	$ 98,500.00
June 1, 2015	$ 98,500	
June 1, 2016	$ 98,500	
June 1, 2017	$ 98,500	
June 1, 2018	$ 98,500	
June 1, 2019	$ 98,500	
June 1, 2020	$ 98,500	
June 1, 2021	$ 98,500	
June 1, 2022	$ 98,500	
June 1, 2023	$ 98,500	
June 1, 2024	$ 98,500	
June 1, 2025	$ 98,500	
June 1, 2026	$ 98,500	
June 1, 2027	$ 98,500	
June 1, 2028	$ 98,500	
June 1, 2029	$ 98,500	
June 1, 2030	$ 98,500	
June 1, 2031	$ 98,500	
June 1, 2032	$ 98,500	
June 1, 2033	$ 98,500	
Total	**$ 1,970,000.00**	**$ 298,908.32**

Dover Library Community Funds Collection - $ 1,970,000.00 Allocation change from Dover

Collections	
$ 5,021.15	1/2 of Oct 2009 GEF Payment
$ 4,783.94	1/2 of Nov 2009 GEF Payment
$ 4,813.23	1/2 of Dec 2009 GEF Payment
$ 5,454.02	1/2 of Jan 2010 GEF Payment
$ 5,147.49	1/2 of Feb 2010 GEF Payment
$ 4,897.69	1/2 of March 2010 GEF Payment
$ 3,976.14	1/2 of April 2010 GEF Payment
$ 5,638.90	1/2 of May 2010 GEF Payment
$ 5,645.35	1/2 of June 2010 GEF Payment
$ 6,590.60	1/2 of July 2010 GEF Payment
$ 7,786.09	1/2 of August 2010 GEF Payment
$ 6,415.31	1/2 of Sept 2010 GEF Payment
$ 5,327.96	1/2 of Oct 2010 GEF Payment
$ 4,787.73	1/2 of Nov 2010 GEF Payment
$ 4,939.75	1/2 of Dec 2010 GEF Payment
$ 5,452.55	1/2 of Jan 2011 GEF Payment
$ 5,410.35	1/2 of Feb 2011 GEF Payment
$ 4,646.32	1/2 of March 2011 GEF Payment
$ 4,742.22	1/2 of April 2011 GEF Payment
$ 4,702.48	1/2 of May 2011 GEF Payment
$ 5,664.97	1/2 of June 2011 GEF Payment
$ 6,430.15	1/2 of July 2011 GEF Payment
$ 6,916.50	1/2 of Aug 2011 GEF Payment
$ 6,149.31	1/2 of Sept 2011 GEF Payment
$ 5,243.92	1/2 of Oct 2011 GEF Payment
$ 4,829.91	1/2 of Nov 2011 GEF Payment
$ 4,531.81	1/2 of Dec 2011 GEF Payment
$ 4,990.50	1/2 of Jan 2012 GEF Payment
$ 5,071.81	1/2 of Feb 2012 GEF Payment
$ 4,828.32	1/2 of March 2012 GEF Payment
$ 4,857.07	1/2 of April 2012 GEF Payment
$ 4,230.04	1/2 of May 2012 GEF Payment
$ 5,711.19	1/2 of June 2012 GEF Payment
$ 6,085.89	1/2 of July 2012 GEF Payment
$ 7,347.66	1/2 of Aug 2012 GEF Payment
$ 6,453.66	1/2 of Sept 2012 GEF Payment
$ 4,886.43	1/2 of Oct 2012 GEF Payment
$ 4,132.99	1/2 of Nov 2012 GEF Payment
$ 5,513.86	1/2 of Dec 2012 GEF Payment
$ 5,187.25	1/2 of Jan 2013 GEF Payment
$ 5,307.83	1/2 of Feb 2013 GEF Payment
$ 4,783.25	1/2 of March 2013 GEF Payment
$ 4,903.40	1/2 of April 2013 GEF Payment
$ 4,673.21	1/2 of May 2013 GEF Payment
$ 5,322.04	1/2 of June 2013 GEF Payment
$ 6,352.74	1/2 of July 2013 GEF Payment
$ 6,519.11	1/2 of Aug 2013 GEF Payment
$ 5,995.23	1/2 of Sept 2013 GEF Payment
$ 4,913.73	All of Oct 2013 GEF Payment
$ 8,589.16	All of Nov 2013 GEF Payment
$ 8,846.64	All of Dec 2013 GEF Payment
$ 9,286.45	All of Jan 2014 GEF Payment
$ 10,267.60	All of Feb 2014 GEF Payment
$ 8,950.89	All of March 2014 GEF Payment
$ 8,960.46	All of April 2014 GEF Payment
$ 8,069.10	All of May 2014 GEF Payment
$ 9,357.61	All of June 2014 GEF Payment
$ 10,776.24	All of July 2014 GEF Payment
$ 10,967.67	All of Aug 2014 GEF Payment
$ 10,883.75	All of Sept 2014 GEF Payment
$ 8,932.20	All of Oct 2014 GEF Payment
	All of Nov 2014 GEF Payment
	All of Dec 2014 GEF Payment
	All of Jan 2015 GEF Payment
	All of Feb 2015 GEF Payment
	All of March 2015 GEF Payment
$ 377,900.69	**Total Collections**

Allocation Request from Dover 10/30/2013 - DEMEC to direct more money to library

City of Dover
Electric Revenue Fund
FY15 - White Oak Solar Park Incremental Cost

	July	August	September	October	November	YTD	Original Budget
Power Supply & Generation							
Dover Sun Park - Energy	$ 227,139	$ 219,981	$ 185,885	$ 140,672	$ 96,640	$ 870,316	$ 2,067,600
Dover Sun Park - REC's	47,469	42,307	33,221	25,192	-	148,190	378,600
Total Power Supply Cost	274,609	262,288	219,105	165,864	96,640	1,018,506	2,446,200
Non-Solar Power Supply Cost	(170,970)	(136,533)	(97,948)	(80,182)	(64,155)	(549,788)	(677,104)
Incremental Energy Cost	$ 103,639	$ 125,755	$ 121,157	$ 85,682	$ 32,485	$ 468,718	$ 1,769,096
Revenues							
Customer Sales - Electricity	(9,870)	(8,024)	(7,893)	(7,840)	(8,061)	(41,688)	(84,600)
Rent Receipts	(14,807)	-	(32,325)	(14,807)	-	(61,939)	(101,400)
Total Revenues	(24,677)	(8,024)	(40,218)	(22,647)	(8,061)	(103,627)	(186,000)
Incremental Sun Park Cost	$ 78,962	$ 117,731	$ 80,939	$ 63,034	$ 24,424	$ 365,091	$ 1,583,096
MWh Purchased/Generated - Solar	2,217.724	2,006.392	1,602.868	1,213.000	833.320	7,873.304	18,159.000
MWh $ Solar Energy	$ 102.42	$ 109.64	$ 115.97	$ 115.97	$ 115.97	$ 110.54	$ 113.86
Solar REC's MWh	332.000	301.000	240.000	182.000	-	1,055.000	
MWh $ Solar REC (one month lag)*	142.98	140.56	138.42	138.42	-	$ -	
MWh $ Non-Solar Energy	$ 77.09	$ 68.05	$ 61.11	$ 66.10	$ 76.99		

Note: Solar REC's are one month behind due to the time the invoice is received.