CODA[™]: Cost Offer Data Application

Cost Development Task Force September 20, 2010

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Monitoring Analytics

Required changes for CODA update:

- Manual 15 update (pg. 11) from eFuel to CODA.
- Removal of Manual 25B (eFuel 2.0 User's Manual) and replacement by CODA user guide.
- New CODA user guide located here:
- <u>http://www.monitoringanalytics.com/tools/docs/C</u>
 <u>ODA_User_Guide_20100903.pdf</u>
- Training will take place on September 17, 2010, slides attached.



Training Agenda

- CODA Implementation Timeline
- General Usage
 - Requesting account
 - Logging in
- Overview/Walkthrough of New Screens
 - Fuel Policy
 - Power Plant Operations Report
 - Opportunity Cost Calculator
- Reference Resources
 - User Guide
 - Monitoring Analytics website, "Tools" page
- Question & Answer





Implementation Timeline

Date:	Milestone:				
	All Generators PJM CAMs fill out CODA Account				
Tuesday, July 27 through	Registration Form for new accounts, including for those				
Wednesday, September 15	users who already have accounts in the existing eFuel.				
	Updated CODA System implemented in MA Production				
	Environment. CODA accounts go live.				
Wednesday, September 15	and Card 99 data no longer reported				
Wednesday, Deptember 10					
Friday, September 17	Training Presentation				
	All generators accounts set up, data reporting requirement /				
Friday, October 15	audits begin (August Power Plant Operations data due.)				
Friday, October 15	All units have approved fuel policies assigned				
Friday, October 15	XML upload template available				
Friday, October 29	XML upload functionality becomes available				
Monday, November 15	September Power Plant Operations data due				
Wednesday, December 15	Optobor Dower Diget Operations date due				
weanesday, December 15	October Power Plant Operations data due				





General Usage

- Requesting an Account
 - All PJM Generators should have their PJM CAM fill out the new CODA Registration Form,
 - The registration form can be found on the Monitoring Analytics website: <u>http://www.monitoringanalytics.com/tools/tools.shtml</u>
- Logging in to the System
 - URL: https://coda.monitoringanalytics.com/coda/login



CODA New Screens - Live Walk-Through

- Fuel Policy
 - Save and manage fuel policy documents for all your units.
- Power Plant Operations Report
 - Monthly entry of fuel delivery and consumption data.
- Opportunity Cost Calculator
 - For units with environmental run time restrictions, enter data by 6:00 PM, and have an opportunity cost calculated by 6:00 AM the next morning.

The following screen shots are for reference, and training will consist of a live walk-through demonstration of the tool

Fuel Policy Procedure

- User saves Fuel Policy document in CODA "Fuel Policy" screen.
- User submits Fuel Policy for review and acceptance by MMU.
- MMU reviews and accepts or rejects submitted Fuel Policy.
- User associates accepted policy with one or more units.
- MMU reviews and accepts or rejects assignment of policy to unit.
- MMU periodically reviews units' fuel accounting calculations to determine consistency with policies.



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Fuel Policy Screen Shots





Create/Edit a Fuel Policy in eFuel

In main screen, under "Fuel Policy" (1), select "Policy", select the company the policy is associated with (2), and select "Edit or Create Policy" (3). A list of existing policies will pop up, and you can either select an existing policy to edit, or create a new one. Multiple policies (4) can be opened up in this screen for viewing and editing.



To edit the policy, you can select the "Text" button, and enter the policy text in the provided window (5), or select "Attachment" button, and attach a word document or PDF policy document (6). You can also copy an existing attachment from another existing policy (7).

Save and Submit Fuel Policy for MMU Review

When you have updated the text, or added attachments, you can save the updated policy by clicking the "Save" button (1). This will save your work on this policy, but will not submit it to the MMU for review and approval. When you are ready to submit the Policy for MMU review and approval, select "Submit Policy" (2).



The MMU will review your submitted policy and either Approve it or Reject it. The status (Accepted or Rejected) of a policy can be seen in the tab next to the policy name (3). Accepted policies can only be viewed, and not edited once they have been accepted. The status of all policies can be viewed by clicking on "View Policy", highlighting all policies (shift select) and clicking on "View Policy".

Associate Approved Fuel Policy with Units

When a policy has been approved by the MMU, it can then be associated with specific units in the "Policy Management" screen. Users can either pull up a policy, and select which units to assign it to (Retrieve Policies), or pull up a unit, and select which policy should apply to that specific unit (Retrieve Units).



When you select "Retrieve Policies", all Approved policies will appear in a pop-up window. When you select a policy, and then click on "View Units", a list of all units in that company eligible for new policy assignment will appear (1). Highlight the unit(s) you wish to apply this policy to, and select the ">>" to move them into the "Units Applied to Policy" window (2). Then select "Submit Assignment" (3). The MMU will review to make sure that the selected approved policy is compatible with the unit type of the associated unit.

When you select "Retrieve Units" the user selects a unit, and then selects an approved policy to apply to the unit.

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Power Plant Operations Report Screen Shots

Form EIA-923, developed by the Energy Information Administration (EIA) at the U.S. Department of Energy, collects information from all electric power plants, including data on electric power generation, fuel consumption, fossil fuel stocks, and delivered fossil fuel cost and quality. These data are used to monitor the status and trends of the electric power industry and appear in many Energy Information Administration (EIA) publications. Monitoring Analytics, in its role as the Independent Market Monitor for PJM, is collecting similar data from PJM participants using the CODA electronic interface that has a similar appearance to the EIA Form 923.



Power Plant Operations Report Schedules

- Schedules 1, 2, 3, 4, 5 and 9 must be filled in monthly.
 - Participants will report Monthly fuel delivery and consumption data into CODA 45 days following the data month.
 - Example: August data must be reported by October 15.
- Schedules 6, 7 and 8 must be filled in annually.
 - Participants will report annual data requirements (for Schedule 6 through Schedule 8) no later than 45 days after the form opens for data entry – typically around March 31 following the end of the reporting year.



	Power Plant Operations Report Screen
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Γ	
	Fuel Policy Opportunity Cost 923 Power Plant Operations Report Operation Data Validation Card Data Reports Tools Logout Help
	923 Schedules
	Edit Schedules Year: 2010 Vonth: Jun V Company: 98765432-ZZZTestCo Vunit: 999999991-TestUnit1 Variation Plant to which the Unit belongs: 2397-Bayonne
	$\left(\underline{1} \right)$

- Under "Power Plant Operations Report" (1), select "Power Plant Operations Schedules". Then select the Year, Month, Company, and Unit to enter data, and select "Edit Schedules".
- Schedules 2 through 9 are to be completed at the "Plant" level
- Schedule 2 includes one field, the "Fuel Index" that is not originally in the EIA923 Form, and has been added by the MMU.
- All Power Plant Operations Schedules are reported monthly, except Schedules 6, 7, and 8, which are reported annually.
- Additional Unit Data is reported monthly for each "Unit".
- Right click on the screen to add a row of data into each screen.



Schedule 2: Cost and Quality of Fuel Receipts – Plant Level Contract Information, Receipts and Costs

 Plant level data for plants that use Fossil Fuels (coal, petroleum products, petroleum coke, natural gas, and other gases (including blast furnace gas)) for the generation of electric power.



Schedule 2: Cost and Quality of Fuel Receipts – Plant Level Contract Information, Receipts and Costs

SCHEDULE 2. PAGE 1. COST AND QUALITY OF FUEL RECEIPTS - PLANT LEVEL CONTRACT INFORMATION, RECEIPTS AND COSTS For fossil-fueled plants 50 megawatts and above (Instructions for SCHEDULE 2. Page 1. are on page 3 of the EIA Form 923 Instructions.) Scroll Right for Page 2 >>										
No Receipts (If applicable, please check)				🔲 Is the	re a fuel tol	lling agre	ement in place for thi	s plant? (If applicable, p	olease check.)	
	Contract Inform	nation				F	Receipts		Cost p	er Unit
	Complete for Al	l Fuels					All Fuels		All F	uels
Fuel Supplier Name	Con	tract Type	Contract Exp Date (mmyy)	iration	Ene	rgy Source	y Source Quantity Received		Total Delivered Cost	Commodity Cost (coal, natural gas)
							•			
SCHEDULE 2. PAGE 2. COST AND QUALITY OF FUEL RECEIPTS - PLANT LEVEL QUALITY OF FUEL AND TRANSPORTATION For fossil-fueled plants 50 megawatts and above (Instructions for SCHEDULE 2. Page 2. are on page 4 of the EIA Form 923 Instructions.) Scroll Right for Page 3 >>										
All	Coal, Pet Coke,	Coal	Coal	Nati	tural Gas Coal, Pet Coke and Oil			oke and Oil		
Fuels Heat Content	and Oil Sulfur Content	Only Ash Content	Only Mercury Content	Firm Inte	n or Predominant Secon erruptible Mode Mode		Secondary Mode			
SCHEDULE 2. PAGE 3. COST AND QUALITY OF FUEL RECEIPTS - PLANT LEVEL COAL MINE INFORMATION For fossil-fueled plants 50 megawatts and above (Instructions for SCHEDULE 2. Page 3. are on page 7 of the EIA Form 923 Instructions.)										
Coal Mine and Type If you have provided the MSHA ID number, leave these items blank					Non-EIA923 Data Required by MMU		ed by MMU			
MSHA ID Number	Name of Mine or Tipple	Mine Type	State or Cou of Origin	intry	Cour	nty	Fue	el Index		



Schedule 3: Boiler Information: Fuel Consumption

- Boiler specific data at plants that burn fossil/organic fuels.
- Excluded from this schedule are conventional hydroelectric plants and all other plants that are not required to report energy consumed (e.g., wind, solar, geothermal, and nuclear).





Schedule 3: Boiler Information: Fuel Consumption

SCHEDULE 3. PART A. BOILER INFORMATION FOR STEAM-ELECTRIC ORGANIC-FUELED PLANTS - FUEL CONSUMPTION (Instructions for SCHEDULE 3. Part A. are on page 7 of the EIA Form 923 Instructions.)

--Click here for instructions--

 Did any boiler produce steam for purposes other than electric power generation during this reporting period? (If applicable, please check)

Prime Mover Code	Boiler ID Boiler Status	Energy Source (See Table 8 on pages 22 through 23 in the Instructions.)	Quantity Consumed (Enter zero when a fuel has no consumption for this reporting period.)	Type of Physical Units (tons, barrels or Mcf)	Average Heat Content (as burned) (MMBtu per ton, barrel or Mcf)	Sulfur Content (petroleum and coal only, to nearest 0.01%)	Ash Content (coal only, to nearest 0.1%)
------------------------	----------------------------	--	---	---	--	---	--

If Energy Source reported is OTH, OBS, OBG, OBL, or OG, please specify:

	SCHEDULE 3. PART B. F (Instructions for SCHEDU	UEL CONSUMPTION - PRIME MOVE ILE 3. Part B. are on page 9 of the EIA	R LEVEL Form 923 Instructions.)	
Click here for instructions	· · · · ·			
 Was steam produced for purpose (If applicable, please check.) 	es other than electric power generation durin	ng this reporting period?		
Prime Mover Code	Energy Source (See Table 8 on pages 22 through 23 in the Instructions).	Quantity Consumed (Enter zero when a fuel has no consumption for this reporting period.)	Type of Physical Units (tons, barrels, or Mcf)	Average Heat Content (MMBtu per ton, barrel or Mcf)
If Epoyal Source reported is OTH				
II Ellergy Source reported is OTH,	Obs, Oba, Obc, or Oa, please speciry:			
		Save		
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Schedule 4: Fossil/Organic Fuel Stocks

- Must be completed by all plants that burn the following fossil/organic fuels: COAL, WASTE COAL, DISTILLATE FUEL OILS (NO. 2, 4), RESIDUAL FUEL OIL (NO. 6), JET FUEL, KEROSENE, PETROLEUM COKE, NATURAL GAS, BIO-FUEL.
- Natural Gas "stocks": Balance between receipts and consumed fuel.
- Include back-up fuels and start-up and flame-stabilization fuels.
- Note that MMU is requiring the reporting of WASTE COAL and BIO-FUEL stocks.





Schedule 4: Fossil Fuel Stocks

SCHEDULE 4. FOSSIL FUEL STOCKS AT THE END OF THE REPORTING PERIOD AND DATA BALANCE For Coal, Oil, and Natural Gas Plants (Instructions for SCHEDULE 4. are on page 10 of the EIA Form 923 Instructions.)										
Click here for instructions										
Energy Source (See Table 8 on pages 22 through 23 in the Instructions.)Type of Physical Units (tons or barrels)Previous Month's Ending Stocks (1)Current Month's Receipts (2)Current Month's Consumption (3)Ending Stocks (4)Adjustment to Stocks (5)Bala 										
Previous Month's Stocks plus Receipts minus Consumption plus (or minus) Adjustment should equal Ending Stocks.										
The balance will appear in column (6). If Balance (from Column 6 a	the balance is not zero, p	provide a comment bel	ow. Identify the fuel o	ode in the comment.		Comment				
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Schedule 5: Generator Information

This schedule will be completed for all plants ullet





Schedule 5: Generator Information

SCHEDULE 5. PART A. GENERATOR INFORMATION FOR STEAM-ELECTRIC ORGANIC-FUELED PLANTS (Instructions for SCHEDULE 5. Part A. are on page 11 of the EIA Form 923 Instructions.)									
his schedule will be completed ONLY for generators at steam-electric organic-fueled plants with a total steam turbine capacity of 10 megawatts and above. -Click here for instructions									
Prime Mover Code Generator ID Generator Generator Gross Generation Net Generation Status (MWh) (M									
	99999991-TestUnit1								
SCHEDULE 5. PART B. PRIME MOVER LEVEL GENERATION									

(Instructions for SCHEDULE 5. Part B. are on page 12 of the EIA Form 923 Instructions.)

This schedule will be completed by steam-electric organic-fueled plants with a total steam turbine capacity less than 10 megawatts, --Click here for instructions--

Prime Mover Code	Gross Generation (MWh)	Net Generation (MWh)

SCHEDULE 5. PART C. GENERATION FROM NUCLEAR AND OTHER NON-COMBUSTIBLE ENERGY SOURCES								
	(Instructions for SCHEDULE 5. F	Part C, are on page 12 of the EIA Form 9	923 Instructions.)					
This schedule will be completed by all nuclear plants and by all wind, solar, geothermal, hydroelectric, or other plants where the energy source is noncombustible,Click here for instructions								
Prime Mover Code	Energy Source	Unit Code (nuclear)	Gross Generation (MWh)	Net Generation (MWh)				



Schedule 6: Source and Disposition of Electricity

• This schedule will be completed by nonutility plants





Schedule 6: Source and Disposition of Electricity

U.S.Department of Energy Energy Information Administration Form EIA-923 (2008)	POWER PLAN REPO	NT OPERATIONS DRT	Form Approval OMB No. 1905-0129 Approval Expires: 12/31/2010					
Plant Name: Bayonne								
Plant ID: 2397 State:	Reporting Year: 2010							
SCHEDULE 6. NONUTILITY ANNUAL SOURCE AND DISPOSITION OF ELECTRICITY (Instructions for SCHEDULE 6. are on page 13 of the EIA Form 923 Instructions.)								
SCHEDULE 6 collects calendar year data (no monthly detail). Annual data are due by March 30 following the reporting year. Report all generation in megawatthours (MWh) rounded to a whole number.								
Source of Electricity			Disposition of Electricity					
(1) Gross Generation (Annual)		(4) Station Use						
(2) Other Incoming Electricity		(5) Direct Use (For CHPs only)						
		(6) Total Facility Use (4 + 5)						
		(7) Retail Sales to Ultimate Custo	omers					
		(8) Sales for Resale						
		(9) Other Outgoing Electricity						
(3) Total Sources (1 + 2)		(10) Total Disposition (6 + 7 + 8	+ 9)					
Т	otal Sources must equal T	otal Disposition (3 = 10)						



Schedule 7: Annual Revenues from Sales for Resale

• Schedule 7 will be completed by respondents who report a positive value on Schedule 6, Disposition of Electricity.





Schedule 7: Annual Revenues from Sales for Resale

Plant Name: Bayonne									
Plant ID: 2397	State: Reporting	g Year: 2010							
	SCHEDULE 7. ANNUA (Instructions for SCHED	AL REVENUES FROM SALES FOR RESALE DULE 7. are on page 14 of the EIA Form 923 Instructions.)							
SCHEDULE 7 is to be comp Sales for Resale. Annual o Sales for Resale is energy	SCHEDULE 7 is to be completed by respondents who entered a positive amount on SCHEDULE 6, Disposition of Electricity, Item 8, Sales for Resale. Annual data are due by March 30 following the reporting year. Sales for Resale is energy supplied to other electric utilities, cooperatives, municipalities, Federal and State electric agencies, or other entities for resale to end-use consumers.								
Annual Revenues from Sal	les for Resale (in thousand dollars):								
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Schedule 8, Part A: Environmental – Byproduct Disposition

• Schedule 8 will be completed by fossil/organic-fueled power plants.





Schedule 8, Part A: Environmental – Byproduct Disposition

SCHEDULE 8. ANNUAL ENVIRONMENT INFORMATION

SCHEDULE 8. PARTS A through F are filed annually and must be reported by steam-electric organic-fueled power plants with a total steam turbine capacity of 100 megawatts and above (only plants that reported boiler-level consumption on SCHEDULE 3 Part A) All steam-electric organic-fueled power plants with a total steam turbine capacity of 10 megawatts and above are responsible for filing Schedule 8, Parts C,E, and F. Annual data are due by March 30 following the reporting year.

SCHEDULE 8. PART A. ANNUAL BYPRODUCT DISPOSITION

(Instructions for SCHEDULE 8 Part A. are on page 14 of the EIA Form 923 Instructions.)

Enter the quantity of combustion byproducts for the year by type of disposal (to nearest 0.1 thousand tons). Report sales of steam in million Btu (MMBtu). If actual data are not available, provide an estimated value.

NO BYPRODUCTS

	Disposal			Sale or Beneficial Use			Stored	Stored	
Byproduct	On-Site Landfill	On-Site Ponds	Disposal Off-site	Sold	Used On-site	Used Off-site	On-site	Off-site	Total
Fly Ash from standard boiler/PCD units									
Fly Ash from units with dry FGC									
Fly Ash from FBC units									
Bottom Ash from standard boiler units									
Bottom (bed) Ash from FBC units									
FCD Cypaum									
Other FGD byproducts									
Ash from coal gasification (IGCC) units									
Other (specify via footnote on SCHEDULE 9)									
Steam Sales (MMBtu)									



Schedule 8, Part B: Environmental – Financial Information

(Instructions for SCHEDULE 8 Part B. are on page 15 of the EIA Form 923 Instructions.)

If actual data are not available, provide an estimated value.

	Operation and Maintenance (O&M) Expenditures During Year (Thousand Dollars)										
Туре	(1) Fly Ash	(2) Bottom Ash	(3) Flue Gas Desulfurization	(4) Water Pollution Abatement	(5) Other Poll Abatemen	ution It	(6) Total (1+2+3+4+5)				
Collection											
Disposal											
Other											
	Capital Expe	nditures for New Struct	ures and Equipment During (Thousand Dollars)	Year, Excluding Land and	Interest Expe	nse					
Туре	(7 Air At) · Pollution ·atement	(8) Water Pollution Abatement	(9) Solid/Containe	ed Waste	(10) Othe	er Pollution Abatement				
Amount											
		В	yproduct Sales Revenue Dur (Thousand Dollars)	ring Year							
Turse	(11)	(12)	(13) Elu and Pattern Ach Sold	(14) Elvo Cos Doculturization	(15)		(16) Total				

Туре	(11) Fly Ash	(12) Bottom Ash	(13) Fly and Bottom Ash Sold Intermingled	(14) Flue Gas Desulfurization Byproducts	(15) Other Byproduct Revenue	(16) Total (11+12+13+14+15)
mount						



Schedule 8, Part C: Environmental – Boiler NOx Controls

SCHEDULE 8. PART C. BOILER INFORMATION NITROGEN OXIDE EMISSION CONTROLS (Instructions for SCHEDULE 8 Part C. are on page 16 of the EIA Form 923 Instructions.)

Complete a separate row for each boiler.

Note: The Boiler ID must match the Boiler ID as reported on Form EIA-860, "Annual Electric" Generator Report.

📃 No NOx Controls

Boiler ID	NOx Control In-Service	NOx Emission Rate (lbs/MMBtu)				
Boller ID	(hours)	Entire Year	May through September			



Schedule 8, Part D: Environmental – Cooling System Info

SCHEDULE 8. PART D. COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS (Instructions for SCHEDULE 8 Part D, are on page 16 of the EIA Form 923 Instructions.)

Note: Cooling System ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report." Complete a separate row for each cooling system.

Cooling Suctors ID	Cooling	Annual Amount of Chlorine added to Cooling Water (1000 lbs)	Average (0.1 ft^3	Annual Rate of Cooli /sec)	ing Water	Maximum Cooling V at intake (F)	Vater Temperature	Maximum Cooling Water Temperature at Discharge Outlet (F)		
System ID	Status		Withdrawal	Discharge	Consumption	Winter Peak Month	Summer Peak Month	Winter Peak Month	Summer Peak Month	



Schedule 8, Part E: Environmental – Flue Gas Particulate Collection

SCHEDULE 8. PART E. FLUE GAS PARTICULATE COLLECTION INFORMATION

(Instructions for SCHEDULE 8 Part E. are on page 17 of the EIA Form 923 Instructions.)

Does not apply.

Complete a separate row for each flue gas particulate collector.

Flue Gas Particulate Collector ID	ECD Collector		Typical Particulate	Removal Efficiency of Particulate Matter (nearest 0.1% by weight)				
	Status	Hours In-Service	Emissions Rate (nearest .01 lb/MMBtu)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)		





Schedule 8, Part F: Environmental – Flue Gas Desulfurization

		S	CHEDULE 8. PART F (Instructions for SC	F. FLUE GAS DESULFURI HEDULE 8 Part F. are on p	ZATION UNIT) age 19 of the El	NFOR	MATION - ANN 923 Instruction	IUAL OP	ERATIONS		
🔲 Does not apply.											
Note: Flue Gas Desulfu Complete a separate ro	rization ID ow for each	must match I n Flue Gas De	the ID as reported on esulfurization Unit.	Form EIA-860, "Annual Ele	ectric Generator	Report	."				
				ANNUA	L OPERATION	5					
ikus Car	ECD	N L I-ali	Hauma	Quantity of FGD	Electrical Ene	rgy	Ren	noval Eff	iciency of Sulfur Dioxide	(nearest 0.1% by wt) Date of Most Recent Efficiency Test (e.g.,12-2))
esulfurization Unit ID	Stat	tus	In-Service	Sorbent Used (0.1 thousand tons)	Consumption (MWh)		At Annual Operating F	actor	At 100% Load or Tested Efficiency	Date of Most Recen Efficiency Test (e.g.	t .,12-2005)
		OPERATI	ON AND MAINTENA	NCE EXPENDITURES DUI	RING YEAR, EX	LUDI	NG ELECTRICI	ТҮ (ТНО	DUSAND DOLLARS)	1	
Flue Gas Desulfurization Un	it ID	Feed and	l Materials Chemicals	Labor and Supervision	W	Coperating Factor Tested Em Sector Sector Maintenance, Mai and All Other Cos	itenance, Materials, All Other Costs	Total			



Schedule 9: Comments

		(Instructions I	SCHEDULE 9. COMME for SCHEDULE 9. are on page	N TS e 20 of the EIA Form 923 I	nstructions.)	
		Comment Section	on: Explain any unusual value	es, occurences, or changes	s in ownership.	
Schedule	Part	Item			Comment	
		Changes (Provide name of	in Ownership purchaser and date sold	.)		
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Additional Unit Data

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Admin	nistration Fuel Policy	Opportu	nity Cost 923 Pow	er Plant Operati	ons Report Op	eration Dat	a Validation Card Data F	eports Tools	Logout Help		
					Non	-EIA923	Unit Data				•
	Retrieve Year:	2010 💌	Month: Jul 💌	Company: 98	765432-ZZZTest	Co 💌	Unit: 99999991-TestUnit1	Plant to wi	hich the Unit belo 'onne	ngs:	
	Unit		Month		Year		Average full load heat rate (Mmbtu/MWh)	Averag heat ra	e mimimum load te (Mmbtu/MWh)	VOM	l in \$/MWh
	99999991-Test	Unit1		7		2010					
						Sav	e				
											A 1.1
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Opportunity Cost Calculator

Administration Fuel Policy Opportunity Cost Power Plant Operations Report Tools Logout Help											
				Opportun	ity Cost C	alculator					۲
Retrieve Effective Date: Aug = 31	2010 -	Linit:	99999	999-777 Test I	Init 1	-					
		Orac.	1	<i>,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Field	Value										
Unit ID	999999999			Percent	Percent	Percent	Percent	Percent	Percent	Contract	Contract
Has 12-Month Rolling Run-Hour Restriction?	No	Year	Month	of Fuel	of Fuel	Fuel type A	Fuel type B	Fuel type A	Fuel type B	Price for Fuel	Price for Fuel
Minimum Run Time (hours)	1			type A	type B	is Contract	is Contract	is Spot	is Spot	type A	type B
Startup Costs (dollars)	.00										
Econ. Max (MW)		2010	Jan	100.00				100.00			
Summer Average Heat Rate (mmbtu/mwh)	10.3000	2010	Feb	100.00				100.00			
Winter Average Heat Rate (mmbtu/mwh)	10.3000	2010	Mar	100.00				100.00			
NOX Emission Rate - annual (lbs/mmbtu)	1.70000	2010	Apr	100.00				100.00			
NOX Emission Rate - seasonal (lbs/mmbtu)	1.70000	2010	May	100.00				100.00			
SO2 Emission Rate (lbs/mmbtu)	.01200	2010	Jun	100.00				100.00			
CO2 Emission Rate (lbs/mmbtu)	337.60000	2010	Jul	100.00				100.00			
VOM (\$/mwh)	.000	2010	Aug	100.00				100.00			
FMU (\$/mwh)		2010	Sep	100.00				100.00			
Scaling Factor (%)		2010	Oct	100.00				100.00			
Delivery charge adder for Fuel Type A (\$/mmbtu)		2010	Nov	100.00				100.00			
Delivery charge adder for Fuel Type B (\$/mmbtu)		2010	Dec	100.00				100.00			
Platt's Forward Fuel Index for Fuel Type A :		Ghave	h. Aug	/21/2010 -	Outaç	ge Input			Run Hour Limitation: 100		
NG04A-Natural Gas - Transco Zn6 NY Fwd	-	Jolar	G Muy	/31/2010 -	112:00	Add Outage	e Remo	ve Outage	Run Hours L	Ised to Date:	
Platt's Forward Fuel Index for Fuel Type B :		En	d: Aug	/31/2010 💌	15:00 🗧						
	•			Start			End		1		
						·			Save	Opportunity Co	ist Data
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Opportunity Cost Results

Administration	Fuel Policy Opportu	unity Cost Power Plant Op	erations Report Tools Logout Help				^
			Opportunity Cost	Results		•	
Retrieve	From: Aug 💌 28 To: Aug 💌 31	▼ 2010 ▼ ▼ 2010 ▼ Unit(s):	999999992-XXX Test Unit 2 99999999-ZZZ Test Unit 1 99999998-ZZZ Test Unit 2 99999997-ZZZ Test Unit 3 99999996-ZZZ Test Unit 4	🔚 Select All			
	Unit	Transaction Date	Opportunity Cost Component	Run Hours Used to Date	Modified Date		
							Ξ
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Reference Resources

- Monitoring Analytics website, "Tools" page:
 - http://www.monitoringanalytics.com/tools/tools.shtml
- CODA Users Guide:

http://www.monitoringanalytics.com/tools/docs/CODA User Guide 20100903.pdf

Contact: <u>coda@monitoringanalytics.com</u>



Questions and Answers







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40

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