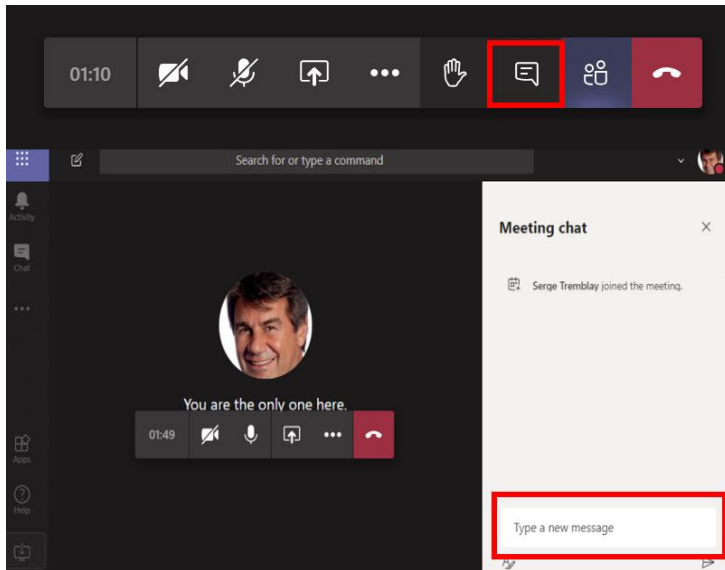


Maryland Utilities' Request For Proposals for Full Requirements Wholesale Electric Power

Pre-Bid Webinar
September 22, 2020



Please Remember

- **Phones are Muted:** In order to help this webinar run smoothly, your phones are muted.
- **Questions:** If you have a question, first select the message icon, then type your question in the “Meeting chat” box and click the arrow under the box or hit enter to send. We will address it as soon as we can.
- **Q&As addressed at today’s session will be posted to the Maryland Utilities’ RFP websites**

Utility Panel

Potomac Edison

Robert Reeping – Manager, Regulated Commodity Sourcing

Melanie Grant – Senior Business Analyst

Baltimore Gas and Electric Company

David Bloom - Manager, Energy Acquisition

Maureta Scott – Senior Energy Acquisition Analyst

Jasmin Kakar – Senior Energy Acquisition Analyst

Brian Schuppert – Senior Energy Acquisition Analyst

Pepco and Delmarva Power

Dan Tudor - Manager, Energy Acquisition

Diana Novak – Senior Energy Acquisition Analyst

Jason Jones – Energy Acquisition Analyst

Webinar Objectives

We are here to:

- Review the bid structure within each utility's RFP
- Highlight substantive changes to the RFP and FSA from the process conducted last year
- Answer questions on RFP related topics

Webinar Disclaimer

This presentation is not meant to be a fully comprehensive description of every aspect related to all of the Maryland Public Service Commission (PSC) orders and settlements related to the RFP process, but rather a summary of the key features. No statements made in this presentation, or made orally by any utility representative, are intended to be binding in any way. In all cases, the RFP, FSA, settlement documents and Compliance Plans, as approved by the PSC, and all PSC orders, control and supersede all other statements.

Summary Agenda

- 2021 RFP Changes
- Utility Bid Plans
- 2021 Full Requirements Service Agreement Changes

Overview

2021 Procurement Improvement Process (PIP) – Summer 2020

- Use of Electronic Letters of Credit(RFP § 3.9)
 - Utilities can accept electronic PDF version of a signed LOC
 - Must be emailed directly from the issuing bank to the Utility prior to the deadline
 - Issuing bank confirms enforceability without the need for a hard copy
- BG&E, Delmarva, Pepco can receive bids via email as the back up communication method (RFP § 4.2) should primary method be inaccessible.
- Continued use of Proxy Price for Capacity due to PJM Base Residual Auction Delays (RFP § 2.1 and FSA § 7.1)

Zone	Proxy Price for PJM DY 2022/2023 (\$/MW-day)
APS	\$97.82
BGE	\$111.71
DPL	\$152.07
PEPCO	\$102.22

- Updates to Billing Line Items (FSA § Exhibit D)
 - Removal of line items 1730 (Expansion Cost Recovery charge) and 2730 (Expansion Cost Recovery credit)
- Replace WIRE with ACH (Automated Clearing House) for payments (FSA § Exhibit G)
- Clarification on bid assurance collateral for rated bidders that do not qualify to receive unsecured credit (RFP § 4.1)
 - Those bidders will need to post pre-bid collateral of \$600,000 per bid block

Background

Important Procurement Qualification Notes

- In order to be qualified to bid in the October 2020, January 2021, April 2021 and June 2021 auctions
 - Suppliers must qualify under the 2021 RFP/FSA documents
 - Eligibility documents due dates
 - September 25, 2020 for the October 19, 2020 auction
 - December 24, 2020 for the January 11, 2021 auction
 - March 29, 2021 for the April 12, 2021 auction
 - May 21, 2021 for the June 7, 2021 auction

2021 Request for Proposals(RFP)

Request for Proposals (RFP)

Supply Requirement Overview

- Full requirements service, including energy, capacity, ancillary services, losses and renewables; excluding network transmission
- Supplier's obligation will be in terms of a fixed percentage of a utility's total SOS load for a specific service type
- Wholesale supply will be at fixed prices, for the Base Load only. The Incremental Load will be supplied by buyer at a variable price (PJM spot market). Base and Incremental loads are defined by the Volume Risk Mitigation (VRM) mechanism (FSA § 6.3)

Request for Proposals

Procurement Process Overview

- Scope of the RFP includes the October 2020, January 2021, April 2021 and June 2021 auctions
- Suppliers will have to qualify only once for this multi-procurement process, however if changes occur that materially affect supplier's financial condition or its status with PJM or FERC, supplier is responsible for notifying the utilities
 - Credit ratings
 - PJM membership in good standing
 - FERC authorization for market-based rates

Request for Proposals

Procurement Process Overview (continued)

- For BGE and PHI Residential and Type I supply, 25% of the load will be procured in October 2020 for June 1, 2021 delivery and another 25% in April 2021 for October 1, 2021 delivery
- For PE, bidding for Residential supply will occur in four procurements – October 2020, January, April, and June 2021, and the contract terms will range from twelve to twenty-four months for delivery beginning June 1, 2021 and June 1, 2022
- 100% of the Type II supply will be procured every 3 months with delivery starting December 1, 2020, March 1, June 1 and September 1, 2021
- A reserve procurement will be scheduled for each solicitation in the event that conforming bids are insufficient to meet supply requirements

Request for Proposals

Procurement Process Overview (continued)

- The typical bid week will look like the following:
 - Monday: Bid assurance collateral due no later than 12:00 pm EPT
 - Monday: Bids due between the hours of 3:30 pm and 5:00 pm EPT
 - Monday: Bids awarded by 9:00 pm EPT
 - Tuesday: Utility forwards partially executed contracts to supplier by facsimile or scanned image file via e-mail
 - Wednesday: by 2:00 p.m. EPT, the bidder will return to Utility by scanned image file via e-mail, a fully executed FSA, and/or transactions, and, if required, Guaranty or amendment
 - Wednesday: Utility files by scanned image file via e-mail executed Transaction Confirms with Commission
 - Thursday: Public hearing for Commission to review results
 - Friday: Commission approval of contracts
- Bids expire the earlier of rejection notice or midnight of bid award day
- Retail prices will be posted about two-and-a-half weeks after Commission approves all contracts with common delivery start date

Utility Bid Plans

Utility Bid Plans

In total, Maryland utilities are requesting electric supply proposals totaling approximately 3,686 MW of Standard Offer Service load

PE	714	www.firstenergycorp.com/mdsosrfp
BGE	1,822	rfp.bge.com
Delmarva Power	296	www.delmarva.com/mdrfp
Pepco	<u>854</u>	www.pepco.com/mdrfp
Total	3,686 MW	

The load figures will be updated prior to the bid due dates

PE Bid Plan

PE's SOS Load Overview

<u>Service Type</u>	Preliminary Capacity PLC, MW		
	<u>Eligible</u>	<u>SOS</u>	<u>RFP</u>
• Residential	707	627	420
• Type II Non-Residential SOS	341	87	87
– PH (< 600 kW PLC) C, C-A, CSH, G (≥ 25 kW)			

Notes:

- Numerical values contained herein are accurate as of August 14, 2020 and will be updated prior to the October 19th procurement
- PLCs are for the 2020-2021 Planning Year
- MW values are scaled at the wholesale level; Scaling factor = 0.98844

Eligible Load is all load that could possibly be included in the SOS process per service type

SOS Load is equal to eligible load minus the load served by third party suppliers

RFP Load is the portion of the SOS load being bid out in the 2020-21 RFP process

BGE Bid Plan

BGE's SOS Load Overview

<u>Service Type</u>	<u>Preliminary Capacity PLC, MW</u>		
	<u>Eligible</u>	<u>SOS</u>	<u>RFP</u>
Residential	3,428	2,644	1,322
Type I	292	191	95
Type II	1,590	405	405

Notes:

- Numerical Values contained herein are accurate as of August 14, 2020, and will be updated prior to each procurement
- PLCs are for 2020-2021 Planning Year
- MW values are unscaled at the wholesale level
- Scaling factor = 0.96

Delmarva Bid Plan

Delmarva's SOS Load Overview

<u>Service Type</u>	Preliminary Capacity PLC, MW		
	<u>Eligible</u>	<u>SOS</u>	<u>RFP</u>
Residential	508	443	221
Type I	63	37	19
Type II	208	56	56

Note: Numerical values contained herein are accurate as of August 14, 2020
PLCs are for the 2020-2021 Planning Year
MW values are unscaled at the wholesale level
Scaling factor = 0.988172

Pepco Bid Plan

Pepco's SOS Load Overview

<u>Service Type</u>	Preliminary Capacity PLC, MW		
	<u>Eligible</u>	<u>SOS</u>	<u>RFP</u>
Residential	1,528	1,243	621
Type I	76	47	24
Type II	845	209	209

Note: Numerical values contained herein are accurate as of August 14, 2020
PLCs are for the 2020-2021 Planning Year
MW values are unscaled at the wholesale level
Scaling factor = 0.974912

Full Requirements Service Agreement (FSA)

Full Requirements Service Agreement (FSA)

- What's New?
- Transaction Confirmation
- Full Requirements Service Obligations
- Scheduling & Forecasting
- Congestion Management
- Renewable Energy Obligation

Full Requirements Service Agreement (FSA)

What's New?

- Updates to Articles 2.8, 14.2, 16.1, Exhibit A, Exhibit F, Exhibit G
 - Removing facsimile as a method of communication
- Update to Exhibit D
 - Removal of Billing Line Items 1730 Expansion Cost Recovery charge and 2730 Expansion Cost Recovery credit
- Update to Exhibit G
 - Replace WIRE with ACH (Automated Clearing House) for payments

Full Requirements Service Agreement

Transaction Confirmation

- Master FSA will be executed under which multiple transactions will be executed
- Each awarded bid for a specific service type and contract term will be a transaction
- A transaction confirmation will specify, among other details, the following:
 - service type
 - delivery period
 - number of bid blocks
 - percentage of load equivalent to each bid block
 - base PLC per bid block to be used in determining increment load
 - prices
 - monthly on-peak and off-peak energy quantities to be used in determining the MtM exposure

Full Requirements Service Agreement

Full Requirements Service Obligations

- Seller must provide all services (other than network transmission) to meet its share of the load obligation at the wholesale level, as accounted for by PJM
- Seller's obligations include, but are not limited to the following:
 - Energy
 - Capacity
 - Transmission other than network transmission
 - Ancillary services
 - Renewable energy resource requirements
 - Transmission & distribution energy losses
 - Congestion management costs
 - New PJM charges, other than charges assessed to network Transmission customer

Full Requirements Service Agreement

Full Requirements Service Obligations (continued)

- Buyer's obligations include the following:
 - Accept service from Seller for resale to retail customers, i.e., Buyer is the Load Serving Entity
 - Network Integration Transmission Service
 - Future PJM charges assessed to network transmission customers
 - Distribution service

Full Requirements Service Agreement

Scheduling & Forecasting

- Utilities' load settlement processes will establish the daily load obligations for Sellers and post such obligations to the Sellers' PJM accounts
- Seller is responsible for all scheduling with PJM to meet the obligation
- Seller is responsible for weekly and monthly settlements with PJM pertaining to their obligations
- Buyer will provide to the Seller on a reasonable efforts basis:
 - On each business day after execution, Buyer's estimation of Seller's capacity PLC for the seventh following day for each service type
 - On each business day of the delivery period, Buyer's estimation of Seller's energy and capacity obligation as is provided to PJM for settlement purposes for each service type, transaction, voltage level and customer class

Full Requirements Service Agreement

Congestion Management

- Seller is responsible for all congestion management costs
- Buyer will transfer to Seller its congestion revenue rights in proportion to the Seller's share of the load, i.e., revenue rights will follow the load
- The nominations for congestion revenue rights for the upcoming PJM planning year will be made by the entity recognized by PJM as having the right to make such nominations, i.e., the supplier who has the load obligation effective June 1, the first day of the planning period
 - For Type II quarterly contracts, this nomination will be made by the Maryland Utilities until winning suppliers are known in the April 2021 procurement

Full Requirements Service Agreement

Renewable Energy Obligation

Seller's obligation for 2020-23 (and 2024 for PE):

Renewable Sources

	<u>Tier 1</u>	<u>Solar Component of Tier 1</u>	<u>Tier 2</u>
2020	28.000%*	6.000%	2.5%
2021	30.800%*	7.500%	0.0%
2022	33.100%*	8.500%	0.0%
2023	35.400%*	9.500%	0.0%
2024	37.700%	10.500%	0.0%

The above stated percentages apply to retail metered sales. Based on SB 516 2019.

*Including an amount to be set by the MD PSC not to exceed 2.5%, derived from offshore wind energy (see Article – Public Utilities, subtitle 7-704.2(a), Annotated Code of Maryland)

Questions

Appendix

Background of Maryland PSC SOS Structure

Background

- The PSC has conducted Case Nos. 8908, 9037, 9056 and 9064 to establish how Standard Offer Service will be provided.
 - The most recent review is ongoing in Case No. 9117
- Stakeholder process has led to settlements and/or orders of:
 - policy for initial implementation (8908 Phase I)
 - initial implementation details (8908 Phase II)
 - subsequent improvements (through the annual Procurement Improvement Process) to the RFP and FSA documents
 - policy regarding the continuation of Type II SOS from June 1, 2006 to May 31, 2007 (9037)
 - policy regarding the continuation of Type II SOS beginning June 1, 2007 (9056)
 - policy regarding the continuation of Residential and Type I SOS beginning June 1, 2007 (9064)
- Stakeholders have included customer representatives, public policy representatives, retail suppliers, wholesale suppliers and utilities
- See utility RFP websites for settlements, orders and procurement improvement documents

2021 Request for Proposals(RFP)

Request for Proposals

Schedule Overview

- October 19, 2020 – Procurement for Type II December 2020 contracts, BGE, PHI and PE Residential June 2021 contracts, BGE and PHI Type I June 2021 contracts
- January 11, 2021 - Procurement for Type II March 2021 contracts and PE Residential June 2021 contracts
- April 12, 2021 - Procurement for Type II June 2021 contracts, BGE and PHI Residential and Type I October 2021 contracts, and PE Residential June 2022 contracts
- June 7, 2021 - Procurement for Type II September 2021 contracts and PE June 2022 Residential contracts

Request for Proposals

Supplier Eligibility Criteria

- Submittal of the Expression of Interest Form
- Execution of the Confidentiality Agreement
- Submittal of PJM qualification and FERC authorization
 - Qualified market buyer and seller in good standing with PJM
 - FERC authorization to make sales of energy, capacity and ancillary services at market based rates
- Submittal of Credit Application & related financial information
 - For supplier or financial guarantor
 - Unsecured credit requires a rating of unsecured senior long-term debt by S&P, Moody's or Fitch
 - Bankruptcy status will not disqualify an applicant from bidding; however, FSA establishes additional requirements pursuant to PSC Order 79452
- Submittal of Binding Bid Agreement

Request for Proposals

Supplier Eligibility Criteria (continued)

- Suppliers not receiving eligibility status for the first procurement on October 19th may participate in subsequent procurements if they cure any deficiency in their eligibility no later than ten business days prior to the due date of proposals for such procurement
- New applicants entering the procurement process after the initial eligibility deadline must submit eligibility documents at least ten business days prior to the due date of proposals for the procurement in which they intend to participate

Request for Proposals

Bid Assurance Collateral

- \$300,000 per bid block is required from supplier who are rated or have a rated guarantor
 - \$600,000 per bid block is required from suppliers who are unrated, do not have a guarantor who is rated, or are rated but are not qualified to receive unsecured credit
- Form of collateral must be either cash or Letter of Credit (LC)
 - Electronic PDF version of a signed LOC is acceptable if emailed directly by issuing bank
- A Bid Assurance LC form acceptable to the utilities has been provided as Appendix 6 in the RFP
- Bid assurance collateral will be returned to the supplier upon execution of contract(s) or rejection of bid(s)
- Bid assurance collateral will be forfeited in the event that the supplier does not execute contract(s) on its awarded bid(s); and such supplier will be ineligible to participate in subsequent procurements pursuant to this RFP
- Bid assurance collateral must be received by the utility no later than 12 p.m. EPT on the day price proposals are due

Request for Proposals

Alternate Forms of Bid Assurance Letter of Credit

- Suppliers that wish to propose an alternative Bid Assurance LC form or some other form of security may do so by the September 25th eligibility requirements due date, or at least two weeks prior to a future procurement date
- Acceptance of such alternative forms of collateral is at the utility's discretion, and will be communicated to the supplier by the October 4th eligibility notification due date or five days before the next procurement date
- Any changes to standard LC, or additional changes to a previously approved alternative LC must be approved by Utility prior to bank issuance

Request for Proposals

Bid Form Spreadsheets

- All bids must be submitted using the appropriate Bid Form Spreadsheet
- Bid Form Spreadsheets are unique for:
 - each utility;
 - each service type;
 - each contract term; and
 - each procurement
- The format of a bid is specified within each Bid Form Spreadsheet

Request for Proposals

Bid Form Spreadsheets (continued)

- Contained within the Bid Form Spreadsheet, and fully transparent to the supplier, is the transformation of the supplier's price offer into a "Discounted Average Term Price" to be used as the only parameter to rank bids
- All of the fields within the Bid Form Spreadsheet that require the supplier's input must be completed in order for the bid to be conforming; e.g., if it is the supplier's intent to submit a zero price for any component of the pricing structure, the supplier must enter the numeric value of zero, rather than leaving the field blank

Request for Proposals

Bid Form Spreadsheet Sample

BGE Request For Proposals		UPDATED: 04/12/2012	
SAMPLE Bid Form Spreadsheet			
April 23, 2012 Procurement Proposal Due Date: April 23, 2012, 4:30 pm EPT Service Type: Residential SOS - R, ES & RL Classes 24-Month Term: October 01, 2012 - September 30, 2014			
Bidder Information			
Company Name			
Contact Name			
Phone Number			
Fax Number			
Bid Block Information			
Maximum Blocks To Be Awarded		14	
Block Size (% of Load)		1.785714%	
Approximate Block Size (MW-Generator)		49.1	
Volume Bid			
Number of Bid Blocks Offered			
Price Periods Within Contract Term		10/01/12-09/30/13	10/01/13-09/30/14
Price Quote for Bid Blocks Offered			
	R&ES Class	RL Class	R&ES Class
Summer Price (\$/MWh-Premise)			
Non-Summer Price (\$/MWh-Premise)			
Summer PJM On-Peak Price (\$/MWh-Premise)			
Summer PJM Off-Peak Price (\$/MWh-Premise)			
Non-Summer PJM On-Peak Price (\$/MWh-Premise)			
Non-Summer PJM Off-Peak Price (\$/MWh-Premise)			
Volume Weighting Factors			
Summer Energy (%)	35.21900%		35.21900%
Non-Summer Energy (%)	56.80400%		56.80400%
Summer PJM On-Peak Energy (%)		1.50600%	1.50600%
Summer PJM Off-Peak Energy (%)		1.44900%	1.44900%
Non-Summer PJM On-Peak Energy (%)		2.27500%	2.27500%
Non-Summer PJM Off-Peak Energy (%)		2.74600%	2.74600%
Discount Factors			
Discount Rate (%)	5.25%		5.25%
Mid-Year Discount Factor	0.9747404		0.9261191
Load Weighted Prices			
Load Weighted Average Energy Price (\$/MWh-Premise)	\$ -		\$ -
Discounted Average Price (\$/MWh-Premise)	\$ -		\$ -
Discounted Price for Evaluation Purposes			
Discounted Average Term Price (\$/MWh-Premise)	\$ -		
Tag Number			
Bid Assurance Collateral Amount	\$ -		
Complete / Incomplete		Incomplete	

¹ Entity's legal name that will define "Seller" in the Full Requirements Service Agreement.

Request for Proposals

Bid Contingency

- Implemented in April 2010
- A bidder may condition its Type II bids based on the number of Residential and Type I blocks that it is awarded
- Bidders must complete a Contingency Bid Matrix
 - calculates the maximum number of blocks the bidder may be awarded under each condition as the summation of the number of Residential and Type I blocks awarded and the maximum number of Type II blocks
- Residential and Type I bids are evaluated first, in order to determine if evaluation of contingency bids is necessary

Request for Proposals

Bid Validation

- Conforming Bids Must Be:
 - Accompanied by the appropriate amount of bid assurance collateral
 - Submitted using the Bid Form Spreadsheet(s), completed in full and without modification
 - Submitted by the due date and due time
 - Submitted by an eligible supplier

Request for Proposals

Evaluation of Bids

- Discounted Average Term Price calculated on each Bid Form Spreadsheet will be the single parameter used to compare all offers within the same service type and the same contract term
- Winning suppliers will be paid their offer prices, not the Discounted Average Term Price
- Bids to supply Residential and Type I load will be subject to the Price Anomaly Threshold Procedure

Request for Proposals

Price Anomaly Procedure

- On the bid due date in each procurement, a Price Anomaly Threshold (PAT) will be developed for each utility soliciting for Residential and/or Type I supply. Each Residential and Type I service type and each contract term will have a PAT developed
- The PATs will be developed by the PSC's consultant, with input from the PSC Staff
- The suppliers will not be informed of the PATs
- Each PAT will be compared to the load weighted average price of all of the winning bids applicable to that PAT, i.e., the PAT will not be used as a threshold for individual bids

Request for Proposals

Price Anomaly Procedure (continued)

- If the average price of the portfolio of winning bids exceeds the PAT, the highest priced bids will be removed until the average price is at or less than the PAT
- If bids are rejected due to the application of a PAT, such deficiency in supply will be bid in either the next procurement (if available) or in the reserve procurement
- A supplier will not be notified that its bid was rejected due to a PAT, but simply that its bid was rejected

Full Requirements Service Agreement (FSA)

Full Requirements Service Agreement

Sample Transaction Confirmation

EXHIBIT A

TRANSACTION CONFIRMATION EXAMPLE
(all information included is fictitious and is for example purposes only)

99999 (Tag Number)

This Transaction Confirmation letter is being provided pursuant to and in accordance with the "Full Requirements Service Agreement" dated _____ (the "Agreement") between Buyer and Seller. Terms used but not defined herein shall have the meanings ascribed to them in the Agreement. This Transaction Confirmation shall confirm the following terms of the transaction ("Transaction") agreed to on _____ ("Transaction Date"). Utility summer period begins on _____ and ends on _____, and its non-summer period begins on _____ and ends on _____. [Pepco/Delmarva] time of use periods are as follows: _____

Seller: ABC Electric
 Buyer: MD Utility
 Product: Full Requirements Service
 Service Type: Type I Non-Residential SOS
 Delivery Point: PJM Control Area with settlement at the [applicable PNODE ID for EDC]
 Delivery Period: June 1, 2017 through May 31, 2019
 Bid Blocks: 2
 Specified Percentage: 25.064%
 Base PLC Per Bid Block

Residential Service Determined on the first day of the Delivery Period in accordance with Section 6.3 (a) (i)
 Type I Non-Residential Service Determined on the first day of the Delivery Period in accordance with Section 6.3 (a) (i)
 Type II Non-Residential Service n/a
 Type II Large Customer Service n/a

Price Period: Within Delivery Period:	Price Period 1			Price Period 2		
	June 1, 2017 – May 31, 2018			June 1, 2018 – May 31, 2019		
Customer Classes:	G	GS	SL	G	GS	SL
Monthly Settlement Base Price:						
Annual Energy, \$/MWh-Premise	n/a	n/a	90.00	n/a	n/a	85.00
Summer Energy, \$/MWh-Premise	140.00	n/a	n/a	130.00	n/a	n/a
Non-Summer Energy, \$/MWh-Premise	120.00	n/a	n/a	110.00	n/a	n/a
Summer On-Peak Energy, \$/MWh-Premise	n/a	170.00	n/a	n/a	160.00	n/a
Summer Off-Peak Energy, \$/MWh-Premise	n/a	120.00	n/a	n/a	110.00	n/a
Non-Summer On-Peak Energy, \$/MWh-Premise	n/a	140.00	n/a	n/a	130.00	n/a
Non-Summer Off-Peak Energy, \$/MWh-Premise	n/a	110.00	n/a	n/a	100.00	n/a
Summer Demand, \$/MW-Premise	n/a	n/a	n/a	n/a	n/a	n/a
Non-Summer Demand, \$/MW Premise	n/a	n/a	n/a	n/a	n/a	n/a

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
On-Peak Estimated Quantity Per 50 MW Capacity PLC, MWh	11,800	13,000	9,100	7,200	8,800	12,900	15,200	16,000	9,500	8,300	9,800	10,900
Off-Peak Estimated Quantity Per 50 MW Capacity PLC, MWh	8,300	9,100	6,400	5,000	6,200	9,000	10,600	11,200	6,700	5,800	6,900	7,600

Please confirm that the terms stated herein accurately reflect the Transaction reached on the Transaction Date above between Seller and Buyer by returning an executed copy of this Transaction Confirmation to Buyer by: (i) email to (Buyer's email address) or (ii) facsimile at (Buyer's fax number) in accordance with Section 2.8 – Transaction Confirmation of the Agreement. The signatories to this Transaction Confirmation must have the authority to enter into this Transaction.

[SELLER]
 By:
 Name:

[BUYER]
 By:
 Name:

Full Requirements Service Agreement

Buyer's Load Response Programs

- Buyer will manage all aspects of its programs
- Buyer will retain all benefits associated with its programs
- In real-time market, Seller's load obligation will reflect the load reduction due to activation of programs

Full Requirements Service Agreement

Determination of Delivered Quantities

- Delivered quantities on an energy (MWh) basis will be as reported by Buyer to PJM for Seller's obligation, reduced for losses to reflect load at the retail meter
 - Includes unaccounted-for-energy
 - In accordance with PJM's initial (day-after) settlement, and 60-day settlement

Full Requirements Service Agreement

Risk Mitigation Measures for Sellers

- Elimination of Network Transmission obligation
- Increment/Decrement provisions for mitigation of volume risk due to customer migration
- New Renewable Resource Requirements
 - If requirements are changed by law, Buyer will pay Seller's incremental cost, subject to PSC approval, for the balance of the contract year in which the change took place
 - In subsequent years of a multi-year transaction, seller is not obligated, but may continue to provide any incremental renewable requirement
 - Subsequent RFPs will pick up the new requirements

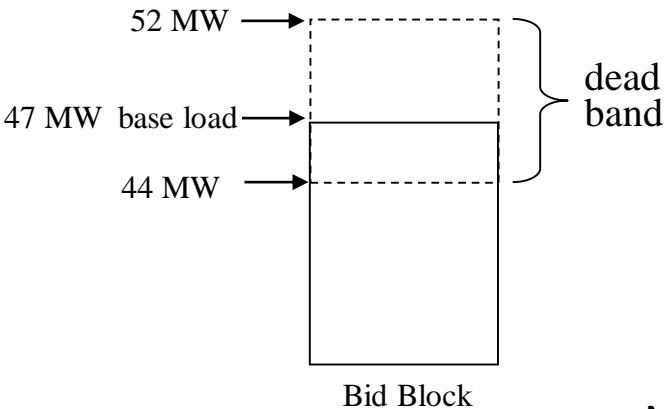
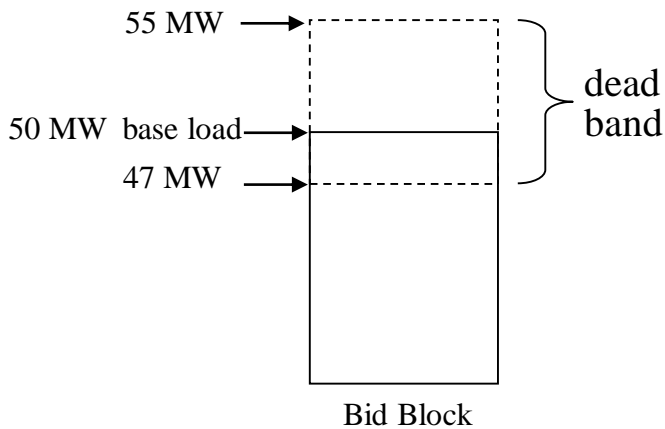
Full Requirements Service Agreement

Base Load and Increment Load

- An “increment/decrement” concept to mitigate volume risk associated with customer migration for Type I and Residential service:
 - The Base Bid Block Size is established on the first day of power flow
 - Thresholds for the difference between the daily block size and Base Bid Block Size: inc = +5MW, dec = -3MW
 - Upon trigger of an inc, inc load = load above Base Bid Block Size + 5MW
 - Upon trigger of a dec, Base Bid Block Size is ratcheted down in increments of 3MW with more than one reduction per day allowed
- Buyer has the increment load obligation

Full Requirements Service Agreement

Base Load and Increment Load Example



Condition

- Load anywhere within dead band
- Load above dead band (e.g. 57 MW)
- Load reaches lower band (e.g. 47 MW)

Seller's Price

All load @ bid price

55 MW @ bid price
2 MW @ Buyer's obligation

All load @ bid price

- Base load adjusted down to 47 MW and new dead band established

Full Requirements Service Agreement

Billing and Settlement

- Buyer will develop and deliver incremental weekly and monthly invoices to the Seller consistent with PJM settlement dates
- Buyer will pay Seller by electronic funds transfer by 12:00 p.m. on the PJM settlement date
- Seller is responsible for its settlements with PJM for base load obligations only
- Buyer is responsible for settlements with PJM for incremental load obligations

Full Requirements Service Agreement

Performance Assurance

- Security against Seller's default
- Nominally represents Buyer's exposure above Seller's unsecured credit limit
- Formulaic and transparent methodology for determining Buyer's exposure
- A Buyer's call on performance assurance cannot be disputed by Seller
- Forms of performance assurance are cash, LC and Guaranty
- Calculation done every business day:
 - Each transaction with a Seller is marked to market (MtM) & the exposures are summed
 - If Buyer is exposed, the exposure is reduced by the value of the amount delivered but not yet paid
 - If Buyer is still exposed the exposure is compared to the Seller's unsecured credit amount
 - If the exposure exceeds the unsecured credit amount, a call is made on performance assurance

Full Requirements Service Agreement

Performance Assurance (continued)

- The MtM exposure will equal the change in the PJM Western Hub forward energy prices relative to initial forward prices for each forward month times the estimated forward monthly energy quantities
- Estimated forward energy quantities will be derived from the quantities stated on each Transaction Confirmation associated with 50 MWs of PLC. The quantities will be scaled for the current size of each contract
- The forward prices used at the Western Hub will be the on-peak prices
- The forward off-peak prices will be derived using an historic ratio of the day-ahead off-peak and on-peak prices
- An independent pricing agent will be retained by the Buyers to provide the forward prices

Full Requirements Service Agreement

Unsecured Credit

- Initially determined from financial data provided by supplier in the pre-bid qualification process
- Reviewed daily for changes in credit rating
- Based on Seller's financial parameters, or Seller's guarantor's financial parameters
 - Form of guaranty is non-negotiable and can be found as Exhibit F in the FSA
- Seller's unsecured credit will be the lower of:
 - Seller's (or Seller's guarantor) unsecured credit cap
 - Seller's (or Seller's guarantor) relevant tangible net worth
 - Guaranty amount from Seller's guarantor

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Unsecured Credit (continued)

- Seller's unsecured credit cap will be based on seller's lowest credit rating

<u>Credit Rating</u>				
<u>S&P</u>	<u>Fitch</u>	<u>Moody's</u>	<u>TNW Percentage</u>	<u>Unsecured Credit Cap</u>
A or above	A or above	A2 or above	15%	\$125,000,000
A-	A-	A3	10%	\$100,000,000
BBB+	BBB+	Baa1	8%	\$75,000,000
BBB	BBB	Baa2	6%	\$50,000,000
BBB-	BBB-	Baa3	4%	\$25,000,000
BB+	BB+	Ba1	2%	\$15,000,000
BB	BB	Ba2	1%	\$10,000,000
BB-	BB-	Ba3	0.5%	\$5,000,000
Below BB- / Unrated	Below BB- / Unrated	Below Ba3 / Unrated	0%	\$0.00

Full Requirements Service Agreement

Foreign Entities

- A Seller or Seller's guarantor that has not been incorporated in the United States has a predefined way to participate in the Maryland Auction
- See FSA Section 14.6 for details

Unrated Entities

- An entity that is unrated and who does not have a rated guarantor can qualify as a supplier
 - The entity will not be given any unsecured credit
 - The entity is subject to higher pre bid collateral amounts of \$600,000 per bid block

Full Requirements Service Agreement

Default & Termination

- Default conditions provided in FSA Section 12.1
- Remedies
 - If Seller defaults but continues to perform, Buyer may create a special remedy subject to PSC approval
 - Non-defaulting party may suspend performance up to 10 days
 - Non-defaulting party may terminate by setting an Early Termination Date
- In the event of an early termination of a FSA, all other wholesale suppliers will have the option to take a full or partial pro-rata share of the terminated contract without change to pricing, terms and conditions

Full Requirements Service Agreement

Settlement Upon Early Termination

- For any part of a terminated contract that is not covered by suppliers exercising their step-up rights, a termination payment will be determined
- Non-defaulting party will determine default damages and settlement amount in a commercially reasonable manner
 - Default damages include costs from event of default up to the termination date
 - Settlement amount includes costs at and beyond the termination date
 - Option provided to Seller regarding determination of settlement amount to accommodate either mark-to-market accounting or accrual accounting
- If Buyer is the non-defaulting party, Buyer will conduct a competitive solicitation to replace the terminated contract under identical price, terms and conditions
 - Until the delivery period starts with the new seller, Buyer will procure from the PJM spot market
 - The net spot market costs, along with the cost or proceeds from the solicitation, will define the settlement amount