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New York Independent System Operator, Inc. FERC Electric Tariff Original Volume No. 2 Attachment D Second Revised Sheet No. 427 Superseding First Revised Sheet No. 427

ATTACHMENT D

DATA REQUIREMENTS FOR INTERNAL GENERATORS FOR LBMP BIDDERS

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	Attachment D Table D-1					
	Data	a Requirement		Generators for LBMP Bidders		
Data Item	Cat.	Bid	Variability	Comments		
G N		Parameters	ord Dord	P (O) d		
Company Name Generator Name/No.	G G	<u> </u>	Static Required Static Required	Parent Organization		
Generator Unit Code/ID	G	-	Static Required Static Required	Unique code which identifies the Generator to the ISO		
Bus	G	Bus No.	Static Required Static Required	Specific location of Generator within the NYCA		
Submitted By	G	Name	May vary Required	Organization submitting Bid. Multiple organization can be authorized to submit Bids with the ISO accepting the most recent. A single organization must be specified to receive invoices from the ISO.		
DMNC (Summer & Winter)	P/G	MW	Static Required	Dependable Maximum Net Capability. Confirmed by test for units Generator's with Installed Capacity contracts, or historical production data.		
Power Factor	P/G	MW/MVA	Static Optional	Generator's tested Power Factor for producing Reactive Power (MVArs) at normal high operating limit MW output level. Provided it is at least 90% of DMNC.		
				This is required for Generators receiving Voltage Support Payments.		
Installed Capacity Contracts	G	MW	May vary Required	Installed Capacity contracts in effect with LSEs within the NYCA. The ISO may limit maximum and/or minimum amounts of Installed Capacity by location due to reliability Constraints.		
Normal Upper Operating Limit	C/D	MW	May change Required by hour for Day-Ahead	Maximum output of aumiGeneratort that could be expected in any hour of the following operating day. The ISO must be informed of a limit change that results in less equapsility.		
Emergency Upper Operating Limit	<u>C/D</u>	<u>MW</u>	May change Required by hour for Day-Ahead	Maximum output that a Generator's owner expects it can reach during extraordinary conditions. A Generator's Emergency Upper Operating Limit may be no less than its Normal Upper Operating Limit.		
Normal Response Rate (NRR)	P/C/D	MW/min.	May vary Required	To be provided as an expected response rate for SCRTD. Generators may specify up to three NRRs. The minimum acceptable response rate is 1% of a unit Generator's gross output per minute.		
Regulation Response Rate (RRR)	P/C/D	MW/Min.	Same as Optional NRR	To be provided as an expected response for Regulation Service. If RRR differs from NRR the total expected response rate is restricted to the maximum of the two rates.		
Emergency Response Rate (ERR)	P/C/D	MW/Min. Piccewise linear curve with MW Output as independent variable and MW/Min. as dependent variable	Same as Optional NRR	To be provided as expected response for reserve pickups; A Generator's ERR must whe greater than or equal to the capacity-weighted average of its NRRs, least equal NRR. If ERR is reduced, then unit will be subject to a performance penalty if called upon.) ERR for Class B Re serve bidders must at least equal the static NRR from Pre - Qualification data.		
Reactive Power Capability	P/G	Piecewise linear curve with MW as independent variable and +/- MVArs as dependent variable	Static Optional	Bidders must inform ISO of all changes to ERR. Update as changed.		

Notes:

Internal Generators LBMP bidders are located within the NYCA.

Cat. = Data Categories: G = General; P = Pre-Qualification; C = Commitment; B = Balancing; D = Dispatch; I = Installed Capacity. Static Data remains relatively constant over the lifetime of Bids but can be changed.

General Data may be provided electronically or by mail, but requires a confirmation or Pre-Qualification process by the ISO. Some data will require substantiation by a test; actual data Bid may be subject to validation checking against Pre-Qualification data. Optional = Required only when providing or bidding to provide the associated service.

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			Attachr Table				
	Data Requirements for Demand Side Resources for LBMP Bidders						
Data Item	Cat.	Bid	Variability	Comments			
	_	Parameters					
Company Name	G	-	Static Required	Parent Organization			
Generator Name/No. Generator Unit Code/ID	G G	-	Static Required Static Required	Unique code which identifies the Demand Side Resource to the ISO			
Bus	G	Bus No.	Static Required Static Required	Specific location of Demand Side Resource within the NYCA			
Submitted By	G	Name	May vary	Organization submitting Bid. Multiple organization can be authorized to submit			
Summitted By	G	Name	Required	Organization submitting Bid. Multiple organization can be authorized to submit Bids with the ISO accepting the most recent. A single organization must be specified to receive invoices from the ISO.			
DMNC (Summer & Winter)	P/G	MW	Static Required	Specify maximum, megawatt cCurtailment LBid			
Power Factor	P/G	MW/MVA	Static Optional	Values to be initialized pursuant to ISO requirements.			
Installed Capacity Contracts	G	MW	May vary Required	Installed Capacity contracts in effect with between Special Case Resources that are Demand Side Resources and LSEs within the NYCA. The ISO may limit maximum and/or minimum amounts of Installed Capacity by location due to reliability Constraints.			
Normal Upper Operating Limit	C/D	MW	May <u>changevary</u> Required by hour for Day-Ahead	Maximum output of adDemandsS ide rResource that could be expected in any hour of the following operating day. The ISO must be informed of a limit change that results in lessc. Capability.			
Emergency Upper Operating Limit	<u>C/D</u>	MW	May vary Required by hour for Day-Ahead	Maximum output that a Demand Side Resource expects to be able to reach during extraordinary conditions. A Demand Side Resource's Emergency Upper Operating Limit may be no lower than its Normal Upper Operating Limit.			
Normal Response Rate (NRR)	P/C/D	MW/min.	May vary	Values to be initialized pursuant to ISO requirements.			
(Tital)			Required	To be provided as an expected response rate for RTD. Demand Side Resources may specify up to three NRRs. Theminimum acceptable response rate is 1% of the quantity of Demand Reductions that the Demand Side Resource produces per minute.			
Regulation Response - Rate (RRR)	P/C/D	-MW/Min.	Same as Optional NRR	Values to be initialized pursuant to ISO requirements.			
Emergency Response Rate (ERR)	P/C/D	MW/Min.	Same as NRR	Values to be initialized pursuant to ISO requirements.			
		Piecewise linear curve with MW Output as independent variable and MW/Min_as	Optional NRR	To be provided as expected response for reserve pickups: A Demand Side Resource's ERR must be greater than or equal to the capacity-weighted average of its NRRs.			
		dependent variable		Bidders must inform ISO of all changes to ERR. (??)			
Resettive Power - Capability	P/G	Piecewise linear curve with MW as independent variable and +/ MVArs as dependent variable	Static Optional	Values to be initialized pursuant to ISO requirements.			
Physical Minimum Demand Reduction Limit	P/G	MW	Static Required				

Notes:

Demand Side Resource LBMP bidders are located within the NYCA.

Cat. = Data Categories: G = General; P = Pre-Qualification; C = Commitment; B = Balancing; D = Dispatch; I = Installed Capacity. Static Data remains relatively constant over the lifetime of Bids but can be changed.

General Data may be provided electronically or by mail, but requires a confirmation or Pre-Qualification process by the ISO. Some data will require substantiation by a test; actual data Bid may be subject to validation checking against Pre-Qualification data.

Optional = Required only when providing or bidding to provide the associated service.

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Attachment D Table D-2 Data Requirements for External Generators for LBMP Bidders					
Data Item	Cat.	Bid Parameters	Variability	Comments	
Company Name	G	-	Static Required	Parent Organization.	
Generator Name/No.	G	-	Static Required		
Generator Unit Code/ID	G	-	Static Required	Unique code which identifies the Generator to the ISO.	
Submitted By	G	Name	May vary Required	Organization submitting Bid. Multiple organizations can be authorized to submit Bids with the ISO accepting the most recent. A single organization must be specified to receive invoices from the ISO.	
Dependable Maximum Net Capability	P/G	MW	Static Required	Confirmed by test for unitGenerators with distalled eCapacity contracts.	
Installed Capacity Contracts	P/G	MW	Variable (not within a Bid) Optional	Installed Capacity contracts in effect with LSEs within the NYCA. The ISO may limit maximum and/or minimum amounts of Installed Capacity by location due to reliability Constraints.	
Normal Upper Operating Limit	C/D	MW	May change by hour for Day-Ahead Required	Maximum output of a uninGenerator that could be expected in any hour of the following operating day. The ISO must be informed of a limit change that results in less and applications of the country of the informed of a limit change that results in less and applications.	
Emergency Upper Operating Limit	<u>C/D</u>	MW	May change Required by hour for Day - Ahead	Maximum output that a Generator's owner expects i can reach during extraordinary conditions. A Generator's Emergency Upper Operating Limit may be no lower than its Normal Upper Operating Limit.	
Physical Minimum Generation Limit	P/G	MW	Static Required		

Notes:

External Generators LBMP bidders are located outside the NYCA.

 $Cat. = Data\ Categories; \textbf{\textit{G}} = General; \textbf{\textit{P}} = Pre-Qualification; \textbf{\textit{C}} = Commitment; \textbf{\textit{B}} = Balancing; \textbf{\textit{D}} = Dispatch; \textbf{\textit{I}} = Installed\ Capacity.$

Static Data remains relatively constant over the lifetime of Bids but can be changed.

General Data may be provided electronically or by mail, but requires a confirmation or Pre-Qualification process by the ISO.

Some data will require substantiation by a test; actual data Bid may be subject to validation checking against Pre-Qualification data.

Optional = Required only when providing or bidding to provide the associated service.

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Attachment D	
Table D-3	

Data Requirements for Generator Commitment Bids for LBMP Bidders

Data Item	Cat.	Bid Parameters	Variability	Comments
Startup Time	C/B	Hours: Minutes or Piecewise linear curve with Hours Off-Line as independent variable and Hours to Start as dependent variable	May be changed for any Day-Ahead or Real- Time Commitment Required	Length of time needed to startup an ofFline Generator, synchronize it to the power grid and stabilize at minimum.
Startup Bid Price	CB	Sto Start Specified hourly or a or Piecewise linear curve with Hhours Op #Lline as an independent variable and \$ to Start as a dependent variable	May be changed for any Day-Ahead Commitment. My only be lowered in the Real-Time Commitment in any hour in which the Generator has a Day-Ahead schedule.	
Minimum Run Time	C/B	Hours:Minutes	May be changed for any Day-Ahead Commitment but may not be changed once a Generator is online. May be changed in Real-Time' the Generator is not currently online; may not be changed once unit is online.	Duration of time that a Generator must run once started before it can subsequently be decommitted. Minimum Run Time c annot be honored past the end of the Dispatch Day. The longest Minimum Run Time allowed in the Real-Time Market shall be one hour.
Minimum Down Time	C/B	Hours:Minutes	Required May be changed for any Day-Ahead <u>or Real-</u> Time Commitment Required	Duration of time that a Generator must remain off-line following decommission before it can be re-started. <u>SCUC shall honor Minimum Down Time within a twenty four hour Dispatch Day. RTC will honor Minimum Down Times in the Real-Time Market unless the Generator has a Day-Ahead Schedule for any portion of the RTC optimization period.</u>
Maximum Number of Startups per Day	C/B	No	Static _ Required	RTC will monitor but will not honor this parameter.

 $\label{eq:Notes:Data Categories: G = General; P = Pre-Qualification; B = Balancing; D = Dispatch; I = Installed Capacity. \\ Static Data remains relatively constant over the lifetime of bids but can be changed.$

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Attachment D Table -3a

Data Requirements for Demand Side Resource Commitment Bids for LBMP Bidders

Data Item	Cat.	Bid Parameters	Variability	Comments
Startup Time	C/B	Hours: Minutes or Piecewise linear curve with Hours Off-Line as independent variable and Hours to Start as dependent variable	May be changed for any Day-Ahead or Real Time Commitment Required	ISO will provide assumed value. Length of time needed to respond to the ISO's signal to begin reducing demand.
Startup Bid Price	C/B	Sto Start Discovine linear curv e with Hours Off Line as independent variable and \$ to Start as dependent variable	May be changed for any Day-Ahead Commitment and, for any Real-Time Commitment in an hour in which the Demand Side Resource does not have a Day-Ahead schedule. Required	The Curtailment Initiation Cost should be entered here
Minimum Run Time	C/B	Hours:Minutes	May be changed for any Day-Ahead or Real Time Commitment; may not be changed once uniResources is on-line Required	Duration of time that the Demand Side Resource mu st reduce its demand once started before it can subsequently be decommitted. Minimum Run Time cannot be for more than 8 hours and cannot be honored past the end of the Dispatch Day. The longest Minimum Run Time allowed in the ReaFTime Market shall be one hour.
Minimum Down Time	C/B	Hours:Minutes	May be changed for any Day-Ahead or Real- Time Commitment Required	Values to be initialized pursuant to ISO requirements. Duration of time that the Demand Side Resource must remain offine following decommission before it can be re-stared. SCUC shall honors Minimum Down Time within a twenty four hour Dispatch Day. RTC will honor Minimum Down Times in the Real-Time Market unless the Demand Side Resource has a Day -Ahead Schedule for any portion of RTCs optimization period
Maximum Number of Startups per Day	C/B	No	Static (but may be changed in Real-Time Bids) ——Required	RTC will monitor but will not honor this parameter

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 $\label{eq:Notes: Notes: Cat. = Data Categories: G = General; P = Pre-Qualification; B = Ba lancing; D = Dispatch; I = Installed Capacity. Static Data remains relatively constant over the lifetime of bids but can be changed.}$

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Attachment D Table D-4							
		Data Require	ments for Gene	erator Energy Bids			
Data Item	Cat.	Bid Parameters	Variability	Comments			
Minimum Generation Energy Block and	C/B	MW and \$\frac{hour}{MW}	May vary by hour	Must be provided for commitment.			
Bid Price				<u>Cas Turbine</u> units that fully load on startup can use this form <u>of bid in lieu of a Dispatchable Energy Bid.</u> , but will set LBMP when economic.			
Dispatchable Energy Bids	C/B	For Single Price Block Bids:	May vary by hour	Block bids would be separated by a narrow steep slope segment between each block.			
		No. of Block steps. \$/MWh, and MWsof each step/Block		Resulting bid "curves" Bids musay consist of up to twelvet be monotonically increasing (possessing a positive slope at all points)			
		e r		constant cost incremental Energy steps for SCD in both SCUC and RTC.			
		For Piecewise Linear Price Bida: Piecewise linear curue with MW Chuput as independent variable and \$/MW as dependent variable					
Dispatch Status Operating Mode	C/B	On/OFFfISO Committed Flexible, Self-Committed Flexible or Self- Committed Fked	May vary by hour	Indicates if a unit will been or off dispatch in real time. Self-Committed Fixed Generators are eligible to receive a Day Ahead schedule on request.			

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Attachment D Table D-4a Data Requirements for Demand <mark>Side Resource</mark> Reduction Bids						
Data Item	Cat.	Bid Parameters	Variability	Comments		
Minimum Generation Energy Block and Bid Price	C/B	MW and \$ <mark>Mwhour</mark>	May vary by hour	Enter dDemand aSide Resource's minimum reduction and bBid price. Must be provided for commitment.		
Dispatchable Energy Bids	C/B	For Single Price Block Bids: No. of Blocks SAWVBlock No. of steps. S.MWh. and MWs of each step Or For Piccewise Linear Price Bids: Piccewise linear curve with MW. Output as independent variable and SAWV as dependent variable.	May vary by hour	Block bids would be separated by a narrow steep clope segment between each block. Bids may consist of up to twelve monotonicallyincreasing (e., possessing a positive slope at all points) constant cost incremental Energy steps in both SCUC and RTC. Resulting hid "curves" must be monotonically increasing (possessing positive slope at all points) for SCD.		
Dispatch Status	C/B	On OffISO Committed Flexible	May vary by hour	N/A.All Demand Side Resources shall automatically be ISO-Committed Flexible.		

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Original Sheet No. 432

Attachment D Table D-5

Data Requirements for Generator Regulation Service(and Frequency Control) Bids

Data Item	Cat.	Bid Parameters	Variability	Comments	
Regulation Capacity Availability Bid	C/B	Table D4 is required	May vary by hour	Generator must be able to respond to AGC Base Point Signals from the ISO. The Regulation Capacity Availability Bid along with the submitted Regulation Response	
,		MW	Optional	Rate (from Table 124) represent the maximum response range in MW and change Rate in MW/Min.	
	an.	02.077		LSEs engaged in Bilateral Transaction wishing to Self-Supply regulation must also state Supplier and location.	
Regulation Capacity Price Bid	C/B	\$/MW	May vary by hour Optional		

Notes:

Cat. = Data Categories: G = General; P = Pre Qualification; C = Commitment; B = Balancing; D = Dispatch; I = Installed Capacity.

Regulation Service Bids made for the Day Ahead Market which are accepted are binding for the next 24 hour operating day.

Regulation Service not scheduled for use by the ISO may be marketed by the bidder providing no other terms or forward contracts are violated. Unscheduled Regulation Service may be bid into the BME (Hour Ahead)RealTime Market, and may have a different Bid price than the Day-Ahead Bid. Optional = Required only when providing or bidding to provide the associated service.

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Attachment D

Attachment D Table D-6

Class A 10 Minute Spinning Reserve Energy and Availability Bid Class B 10 Minute Spinning Reserve Energy and Availability Bid Also, MW Available —and Day-Ahead only \$MW Availability Price Bid Availability Bid CB/D MW Availabile and —\$AWW Availability —Price Bid Availability Price Bid OMinute Non- Synchronized If Minute Operating Reserve Bid MW Availabile and Day-Ahead only \$MW Availability Price Bid	Required Day-Ahead and Mnay vary by hour, in the Day-Ahead Market. Real-Time Availability Bids will not be accepted. All Generators accepted to provide Energy will be treated as offering Reserves at a price of \$0/MW. Optional May vary by hour Optional Required Day-Ahead and nay vary by hour, in the Day-Ahead and have the control of the provide Energy will be treated as offering Reserves at a price of \$0/MW.	Spinning Reserve is energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not committed or dispatched to its Upper Operating Limit. The Energy must be available for at least 30 minutes. All Generators with this bid type may be dispatched down by SCD and will be paid Lost Opportunity Cost if this occurs. A Class A unit not scheduled at maximum Bid Capacity in the Day Ahead Market is limited in the amount of Energy it may otherwise market in the Day Ahead Spinnin Reserve schedule is still available to the ISO. Bidding into Day Ahead Energy Market may create a forward contract for providing Class A Spinning Reserve Energy produce in place of providing Spinning Reserve will be paid RealTime LBMP. If a Class A unit availability hid is accepted Day Ahead, it will be paid the Day Ahead Spinning Reserve Availability Clearing Price. If accepted for RealTime, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. An Emergency Response Rate (ERR) must be provided. MW Available is not separately Bid but is a function of the Bidder's ERR If no Day Ahead Availability price is bid, an Availability Bid of \$0/MW will be assigned Spinning Reserve is Energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be available for at least 30 minutes. A Class R unit is not committed or scheduled for L BMP Energy, but can hid an Availability for Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost, Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP. An Emergency Response Rate (ERR) must be provided.
Energy and Availability Bid Also, MW Available -and Day-Ahead only \$MW Availability Price Bid Also, MW Available and Stanning Reserve A ailability Bid Diva-Ahead only yechronized Light Minute Non- yechronized Light Minute Depending \$MW Available and Day-Ahead only \$MW Available and SWW Available and SWW Available and Day-Ahead only \$MW Availability	hour, in the Day- Ahead Market, Real Time Availability Bids will not be accepted. All Generators accepted to provide Energy will be treated as offering Reserves at a price of \$0 MW. Optional May vary by hour Optional Required Day-Ahead and nay vary by hour, in the Day- Ahead Market, Real Time Availability Bids will not be accepted. All Generators accepted to provide	Operating Limit. The Energy must be available for at least 30 minutes. All Generators with this bid type may be dispatched down by SCD and will be paid Lost Opportunity Cost if this occurs. A Class A unit not scheduled at maximum Bid Capacity in the Day Ahead Market is limited in the amount of Energy it may otherwise market in the Day. Ahead Market, such that its original Day. Ahead Energy schedule plus its Day Ahead Spinnin Reserve schedule is still available to the ISO. Bidding into Day Ahead Energy Market may create a forward contract for providing Class A Spinning Reserve Inergy produce in place of providing Spinning Reserve will be paid RealTime LBMP. If a Class A unit availability bid is accepted Day Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for RealTime, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. An Emergency Response Rate (ERR) must be provided. MW Available is not separately Bid but is a function of the Bidder's ERR If no Day-Ahead Availability price is bid, an Availability Bid of \$0/MW will be assigned Spinning Reserve is Energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be availability Clearing Price. It accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will be paid the Day. Ahead Spinning Reserve If accepted Day Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It accepted for Real-Time, it will be paid the Spinning Reserve Availability Clearing Price. It accepted for Real-Time, it will be paid to St Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
Bid Also, MW Available -and Day-Ahead only \$MW Availability Price Bid Availability Price Bid MW Available and -\$MW Availability -Dice Bid Dive Bid Dive Bid MW Available and -Bid Dive Bid MW Available and -Bid Dive Bid MW Available and -Bid MW Availa	Ahead Market. RealTime Availability Bids will not be accepted. All Generators accepted to provide Energy will be treated as offering Reserves at a price of \$0/MW. Optional May vary by hour Optional May vary by hour Optional Required Day-Ahead and nay vary by hour, in the Day- Ahead Market. RealTime Availability Bids will not be accepted. All Generators accepted to provide	All Generators with this bid type may be dispatched down by SCD and will be paid Lost Opportunity Cost if this occurs. A Class A unit not scheduled at maximum Bid Capacity in the Day Ahead Market is limited in the amount of Energy it may otherwise market in the Day Ahead Market such that its original Day Ahead Energy schedule plus in Day Ahead Spinning Reserve schedule is still available to the ISO. Bidding into Day Ahead Energy Market may create a forward contract for providing Class A Spinning Reserve Energy produce in place of providing Spinning Reserve will be paid Real Time LBMP. If a Class A unit availability hid is accepted Day Ahead, it will be paid the Day Ahead Spinning Reserve Availability Clearing Price. An Emergency Response Rate (ERR) must be provided. MW Available is not separately Bid but is a function of the Bidder's ERR If no Day Ahead Availability price is bid, an Availability Bid of \$0 MW will be assigne Spinning Reserve is Energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be spinning Reserve If accepted Day Ahead, it will be paid the Day Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Clase B units will not set LBMP.
Also, MW Available and Day Ahead only \$MW Availability Price Bid Availability Price Bid Availability Bid CB/D MW Available and Siming Reserve Availability Bid Price Bid OMinute Non- yechronized Minute Non- yechronized Minute Operating S/MW Availability S/MW Availability	Real-Time Availability Bids will not be accepted. All Generators accepted to provide Energy will be treated as offering Reserves at a price of \$0/MW. Optional May vary by hour Optional Required Day-Ahead and nay vary by hour, in the Day- Ahead Market, Real-Time Availability Bids will not be accepted. All Generators accepted to provide	Lost Opportunity Cost if this occurs. A Class A unit not scheduled at maximum Bid Capacity in the Day Ahead Market is limited in the amount of Energy it may otherwise market in the Day. Ahead Market, such that its original Day. Ahead Energy schedule plus its Day Ahead Spinnin Reserve schedule is still available to the ISO. Bidding into Day. Ahead Energy Market may create a forward contract for providing Class A Spinning Reserve Energy produce in place of providing Spinning Reserve will be paid RealTime LBMP. If a Class A unit availability bid is accepted Day. Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for RealTime, if will be paid the Real-Time Spinning Reserve Availability Clearing Price. An Emergency Response Rate (ERR) must be provided. MW Available is not separately Bid but is a function of the Bidder's ERR If no Day. Ahead Availability price is bid, an Availability Bid of \$0.0MW will be assigne Spinning Reserve in Energy available in 10 minutes from a spectromized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be available for at least 30 minutes. A Class R unit is not committed or scheduled for LRMP Energy, but can bid an Availability for Spinning Reserve. If accepted Day. Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will be paid Real-Time LBMP, but Class B units will not set LBMP.
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S/MW Availability Price Bid Cless B-10 Minute Stimming Reserve Availability Bid Dive Bid Offinite Non- yechronized U Minute Operating S/MW Available and Day-Ahead only S/MW Availability	Bids will not be accepted. All Generators accepted for provide Energy will be treated as offering Reserves at a price of \$0/MW. Optional May vary by hour Optional Required Day-Ahead and nay vary by hour, in the Day-Ahead Market. Real-Time Availability Bids will not be accepted. All Generators accepted to provide	A Class A unit not scheduled at maximum Bid Capacity in the Day Ahead Market is limited in the amount of Energy it may otherwise market in the Day Ahead Market, such that its original Day. Ahead Energy schedule plus in Day. Ahead Spinnin Reserve schedule is still available to the ISO. Bidding into Day. Ahead Energy Market may create a forward contract for providing Class A Spinning Reserve Energy Produce in place of providing Spinning Reserve will be paid RealTime LBMP. If a Class A unit availability hid is accepted Day. Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for RealTime, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. An Emergency Response Rate (ERR) must be provided. MW Available is not separately Bid but is a function of the Bidder's ERR. If no Day. Ahead Availability price is bid, an Availability Bid of \$0/MW will be assigne Spinning Reserve is Energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be available for at least 30 minutes. A Class R unit is not committed or scheduled for L BMP Energy, but can bid an Availability for Spinning Reserve If accepted Day. Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
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Minute Non - C/B/D MW Available and Day-Ahead only Minute Operating S/MW Availability S/MW Available and Minute Operating S/MW Availability	May vary by hour Optional Required Day-Ahead and nay vary by hour, in the Day- Ahead Market. RealTime Availability Bids will not be accepted. All Generators accepted to provide	Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. An Emergency Response Rate (ERR) must be provided. MW Available is not separately Bid but is a function of the Bidder's ERR. If no Day-Ahead Availability price is bid, an Availability Bid of \$0/MW will be assigned Spinning Reserve is Energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be availabile for at least 30 minutes. A Class R unit is not committed or scheduled for L BMP Energy, but can bid an Availability for Spinning Reserve. If accepted Day-Ahead, it will be paid the Day-Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
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Minute Non - C/B/D MW Available and Day-Ahead only Minute Operating S/MW Availability S/MW Available and Minute Operating S/MW Availability	Required Day-Ahead and nay vary by hour, in the Day- Ahead Market. RealTime Availability Bids will not be accepted. All Generators accepted to provide	MW Available is not separately Bid but is a function of the Bidder's ERR If no Day-Ahead Availability price is bid, an Availability Bid of \$0/MW will be assigned Spinning Reserve is Energy available in 10 minutes from a synchronized recoursed located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be available for at least 30 minutes. A Class R unit is not committed or scheduled for L RMP Energy, but can bid an Availability for Spinning Reserve. If accepted Day-Ahead, it will be paid the Day-Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
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O Minute Non - C/B/D MW Available and yachronized Day-Ahead only Minute Depending S/MW Availablity	Required Day-Ahead and nay vary by hour, in the Day- Ahead Market. RealTime Availability Bids will not be accepted. All Generators accepted to provide	Spinning Reserve is Energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be available for at least 30 minutes. A Class R unit is not committed or scheduled for L RMP Energy, but can bid an Availability for Spinning Reserve. If accepted Day. Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
Minute Non - C/B/D MW Available and Day-Ahead only Minute Operating S/MW Availability S/MW Available and Minute Operating S/MW Availability	Required Day-Ahead and nay vary by hour, in the Day- Ahead Market. RealTime Availability Bids will not be accepted. All Generators accepted to provide	Spinning Reserve is Energy available in 10 minutes from a synchronized resource located within the NYCA that is otherwise not operating at its Upper Operating Limit. The Energy must be available for at least 30 minutes. A Class R unit is not committed or scheduled for L RMP Energy, but can bid an Availability for Spinning Reserve If accepted Day. Abead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
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ychronized <u>Day-Ahead only</u> (C Minute Operating \$/MW Availability	hour, in the Day- Ahead Market. Real-Time Availability Bids will not be accepted. All Generators accepted to provide	Availability for Spinning Reserve. If accepted Day. Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B. units will not set LBMP.
ychronized <u>Day-Ahead only</u> (C Minute Operating \$/MW Availability	Ahead Market. Real Time Availability Bids will not be accepted. All Generators accepted to provide	Availability for Spinning Reserve. If accepted Day. Ahead, it will be paid the Day. Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B. units will not set LBMP.
ychronized <u>Day-Ahead only</u> (C Minute Operating \$/MW Availability	RealTime Availability Bids will not be accepted. All Generators accepted to provide	Ahead Spinning Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
ychronized <u>Day-Ahead only</u> (C Minute Operating \$/MW Availability	Bids will not be accepted. All Generators accepted to provide	will be paid the Real-Time Spinning Reserve Availability Clearing Price. It will not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
ychronized <u>Day-Ahead only</u> (Minute Operating \$/MW Availability	Bids will not be accepted. All Generators accepted to provide	not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
ychronized <u>Day-Ahead only</u> (Minute Operating \$/MW Availability	Bids will not be accepted. All Generators accepted to provide	not be paid Lost Opportunity Cost. Any Energy produced will be paid Real-Time LBMP, but Class B units will not set LBMP.
ychronized <u>Day-Ahead only</u> (Minute Operating \$/MW Availability	accepted. All Generators accepted to provide	LBMP, but Class B units will not set LBMP.
yschronized Day-Ahead only Minute Operating \$/MW Availability	All Generators accepted to provide	
yschronized Day-Ahead only Minute Operating \$/MW Availability	accepted to provide	An Emergency Response Rate (ERR) must be provided.
yschronized Day-Ahead only Minute Operating \$/MW Availability		An Emergency Response Rate (ERR) must be provided:
yschronized Day-Ahead only Minute Operating \$/MW Availability	Energy will be treated	
ychronized <u>Day-Ahead only</u> (Minute Operating \$/MW Availability		
ychronized <u>Day-Ahead only</u> (Minute Operating \$/MW Availability	as offering Reserves	
Achronized Day-Ahead only Minute Operating \$/MW Availability	at a price of \$0/MW.	
Achronized Day-Ahead only Minute Operating \$/MW Availability	May vary by hour	MW Rid must be available 10 minutes after requested.
Minute Operating \$/MW Availability		
	Required Day - Ahead	May be located External to NYCA provided the Inter-Control Area DNI Associated
The Bu	and nay vary by	with this Resource can be changed in the required time.
	hour, in the Day -	with this resource can be changed in the required time.
	Ahead Market.	If accepted Day-Ahead, it will be paid the Day-Ahead Non-Synchronized 10 Minute
	Anead Warket.	
		Reserve Availability Clearing Price. If accepted for Real Time, it will be paid the
	RealTime Availability	Real Time Non Synchronized 10 Minute Reserve Availability Clearing Price. Any
	Bids will not be	Energy produced will be paid RealTime LBMP.
	accepted All	
	Generators accepted	MW Available is not separately Bid but is a function of the Bidder's ERR
	to provide Energy will be treated as	If no Day-Ahead Availability price is bid, an Availability Bid of \$0 /MW will be assig
	offering Reserves at a	y and y i and y and y i and y
	price of \$0/MW.	
	Ontional	
60 Minute Operating C/B/D MW Available and	May vary by hour	MW Bid must be available 30 minutes after requested.
Reserve Spinning or <u>Day-Ahead only</u>		1
Non-Synchronized \$/MW Availability	Required Day -Ahead	May be located External to NYCA provided the Inter-Control Area DNI Associated
Price Bid	and nay vary by	with this Resource can be changed in the required time.
	hour, in the Day -	
	Ahead Market.	If accepted Day Ahead, it will be paid the Day Ahead 30 Minute Reserve
		Availability Clearing Price. If accepted for Real Time, it will be paid the Real Time
	RealTime Availability	30 Minute Reserve Availability Clearing Price. Any Energy produced will be paid Rea
	Bids will not be	Time LBMP.
	DIUS WIII HOUDE	THIRE LIBERT.
	accepted All Generators and	MW Available is not separately Bid but is a function of the Bidder's ERR

Resources accepte to provide Energy will be treated as offering Reserves at a If no Day-assigned.

Notes:

Cat. = Data Categories: G = General; P = Pre Qualification; C = Commitment; B = Balancing; D = Dispatch; I = Installed Capacity.

Operating Reserve Bids made for the Day - Ahead Market which are accepted are binding for the next 24 hour operating day.

Operating Reserves not scheduled for use by the ISO may be marketed by the bidder providing no other terms or forward contracts are violated.

Lincashadud Operating Reserves may be bid into the BMM: (Hour Ahead) Market, and may have a different Bid price than the Day Ahead Bid.

Optional = Required only when providing or bidding to provide the associated service.

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Attachment D Table D-7

Data Requirements for Virtual Transaction Bids to Purchase Energy in the Day-Ahead Market

Data Item Company Name	Cat. G	Bid Parameters -	Variability Static	Comments LSE, Energy Service Co. or other Transmission/Distribution Co. providing Load forecast.
Point of Withdrawal (Sink) Location	G	For Internal Loads: LBMP Zone or Zone and Bus or For External Loads: Control Area or Control Area and Proxy Bus	Static	
Submitted By	G	Name	May Vary	Organization submitting Bid.
Energy Forecast	C/B/D	MWh/hr	Variable by Hour	Total Estimate for Bid and non-Bid Load; ISO will rely on its own composite Load forecast as a reliability commitment to ensure that all Load is served. May be updated after DAM and/or Real Time to indicate adjusted Load served
Energy Commit Bid	C/B/D	MW that will be committed for Day - Ahead Forward Contract	Variable by hour	Bidding is limited to the Day -Ahead Market.
Price Capped Energy Block Bids	C/B/D	No. of Blocks, MW/Block, and \$/MW/Block	Variable by hour	Bidding is limited to the Day -Ahead Market.

 $\label{eq:continuous} \begin{tabular}{ll} \hline \textbf{Notes:} \\ \hline \textbf{Cat.} = \textbf{Data Categories: } \textbf{G} = \textbf{General; P} = \textbf{Pre-Qualification; C} = \textbf{Commitment; B} = \textbf{Balancing; D} = \textbf{Dispatch; I} = \textbf{Installed Capacity.} \\ \hline \end{tabular}$

Energy Bids made for the Day-Ahead Market which are accepted are binding for the next 24 hour operating day.

Attachment D Table D-7.1 Data Requirements for Virtual Transaction Bids to Supply Energy

Data Item	Cat.	Bid Parameters	Variability	Comments
Company Name	G	-	Static	LSE, Energy Service Co. or other Transmission/Distribution Co. providing Load forecast.
Point of Injection (Source) Location	G	LBMP Zone	Static	
Submitted By	G	Name	May Vary	Organization submitting Bid.
Price Capped Energy Block Bids	C/B/D	No. of Blocks, MW/Block, and \$/MW/Block	Variable by hour	Bidding is limited to the Day-Ahead Market.

Notes:
Cat. = Data Categories: G = General; P = Pre Qualification; C = Commitment; B = Balancing; D = Dispatch; I = Installed Capacity.
Energy Bids made for the Day-Ahead Market which are accepted are binding for the next 24 hour operating day.

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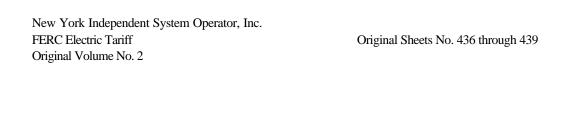
Original Sheet No. 435

Attachment D							
Table D-8 Data Requirements for Interruptible Load Spinning Reserve Bids							
				An interruptible Load spinning reserve Bid must include an Energy Load Bid equal to or greater than the interruptible Load Rid (i.e., it must be consuming Energy in order to provide spinning reserve in the form of a Load interruption); must be reflected to an ISCI bus location; must interrupt full amount within 10 minutes; and must be able to be interrupted for at least 30 minutes.			
				An interruptible Load is equivalent to Class B 10 Minute Spinning Reserve.			
				An interruptible Load that is scheduled Day Ahead to provide Spinning Reserve will be paid the Day Ahead Spinning Reserve Availability Clearing Price. If scheduled to provide Spinning Reserve in real time, it will be paid the Red Time Spinning Reserve Availability Clearing Price.			
				An interruptible Load providing Spinning Reserve must meet the requirements of the ISO including the ability to be monitored to measure interruptions.			
Interruptible Load for 30- Minute Reserve	C/R/D	MW Available, and \$/MW Availability Price Bid	May Rid Day-Ahead	30.Minute Reserve is Energy available in 30 minutes from a synchronized Load (by definition, all Load being served is synchronized) located within the NYCA that is interruptible on demand.			
				An interruptible load 30 minute reserve Bid must include an Energy Load Bid equal to or greater than the interruptible Load Bid (i.e., it must be consuming Energy in order to provide operating reserve in the form of a Load interruption); must be reflected to an ISO bus location; must interrupt full amount within 30 minutes.			
				An interruptible Load that is scheduled Day Ahead to provide 30minute Reserve will be paid the Day Ahead 30 minute Reserve Availability Clearing Price. If scheduled to provide 30minute Reserve in real time, it will be paid the Real Time 30 minute Reserve Availability Clearing Price.			
				An interruptible Load providing 30-minuteReserve must meet the requirements of the ISO including the ability to be monitored to measure interruptions.			

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Sheet Nos. 436 through 439 are reserved for future use.

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