## DRAFT August 28, 2003

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 Requirements for Internal Generators for LBMP Bidders

	Data	Requirements	tor internar	Generators for Edivir Diducts
Data Item	Cat.	Bid	Variability	Comments
Company Name	G	Parameters	Static Required	Parent Organization
Generator Name/No.	G		Static Required Static Required	1 dicht 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	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 unitsGenerator'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 a uniGenerator t 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 eCapability.
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 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.  or Piecewise linear curve with MW Output as independent variable and MW/Min. as	Same as Optional NRR	To be provided as expected response for reserve pickups; A Generator's ERR must at be 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 Reserve bidders must at least equal the static NRR from PreQualification data.
	D/G	dependent variable		Bidders must inform ISO of all changes to ERR.
Reactive Power Capability	P/G	Piecewise linear curve with MW as independent variable and +/- MVArs as dependent variable	Static Optional	Update as changed.
Physical Minimum Generation Limit	<u>P/G</u>	MW	Static Required	

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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			Attachi 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.	G		Static Required		
Generator Unit Code/ID	G		Static Required	Unique code which identifies the Demand Side Resource to the ISO	
Bus	G	Bus No.	Static Required	Specific location of Demand Side Resource 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	Specify maximum, megawatt eCurtailment bBid	
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 <del>changeyary</del> Required by hour for Day-Ahead	Maximum output of a dDemand sSide FResource that could be expected in any how of the following operating day. The ISO must be informed of a limit change that results in less e Capability.	
Emergency Upper Operating Limit	<u>C/D</u>	<u>MW</u>	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.	
(Mily)			Required	To be provided as an expected response rate for RTD. Demand Side Resources may specify up to three NRRs. The minimum 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/Minor Piecewise linear eurve with MW Output as independent variable and MW/Min. as dependent variable	Same as NRR  Optional NRR	Values to be initialized pursuant to ISO requirements.  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  Bidders must inform ISO of all changes to ERR. (??)	
Reactive 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	P/G	MW	Static Required		
Demand Reduction Limit	1	1			

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 unitGeneratorss with installed 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 unitGenerator 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 eCapability.
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 it 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	<u>P/G</u>	MW	Static Required	

#### Notes:

External Generators LBMP bidders are located outside 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-3 Data Requirements for Generator Commitment Bids <del>for LBMP Bidders</del>						
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 off-line Generator, synchronize it to the power grid and stabilize at minimum.		
Startup Bid Price	C/B	\$\footnote{s} to Start \footnote{specified hourly or a} \footnote{or} \text{Piecewise linear curve} \text{with \$\footnote{H}_hours \$\text{Ooff-\$\footnote{L}_line}\$ as \$\frac{an}{a}\$, independent variable and \$\footnote{s}\$ to Start as \$\frac{a}{a}\$ dependent variable	May be changed for any Day-Ahead Commitment_ May only be lowered in the Real-Time Commitment in any hour in which the Generator has a Day-Ahead schedule.  Required			
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 if the Generator is not currently online. ; may not be changed once unit is on-line Required	Duration of time that <u>a</u> Generator must run once started before it can subsequently be decommitted. Minimum Run Time cannot be honored past the end of the Dispatch Day. <u>The longest Minimum Run Time allowed in the Real-Time Market shall be one hour.</u>		
Minimum Down Time	C/B	Hours:Minutes	May be changed for any Day-Ahead or Real-Time Commitment  Required	Duration of time that <u>a</u> 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 <u>period.</u></u>		
Maximum Number of	C/B	No	Static - Required	RTC will monitor but will not honor this parameter.		

Startups per Day

Cat. = 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	\$ to Start  or Piecewise linear curve 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 uniResourcet is on-line Required	Duration of time that the Demand Side Resource must 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 Real-Time 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 off-line following decommission before it can be re-started. 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 RTC's 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

Notes:
Cat. = 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 D-4 Data Requirements for Generator Energy Bids				
Data Item	Cat.	Bid Parameters	Variability	Comments
Minimum Generation Energy Block and Bid Price	C/B	MW and \$/hourMW	May vary by hour	Must be provided for commitment.  Gas Fturbine units that fully load on startup can use this form of bid in lieu of a Dispatchable Energy Bid., but will set LBMP when economic.
Dispatchable Energy Bids	C/B	For Single Price Block Bids: No. of Blocksteps, \$/MWh, and MWs of each step/Block  or  For Piecewise Linear Price Bids: Piecewise linear curve with MW Output as independent variable and \$/MW as dependent variable	May vary by hour	Block bids would be separated by a narrow steep slope segment between each block.  Resulting bid "curves" Bids musay consist of up to twelvet be monotonically increasing (possessing a positive slope at all points) constant cost incremental Energy steps for SCD in both SCUC and RTC.
Dispatch StatusOperating Mode	C/B	On/OfFfISO Committed Flexible, Self-Committed Flexible, or Self- Committed Fked	May vary by hour	Indicates if a unit will be on 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 Side Resource Reduction Bids				
Data Item Minimum Generation	Cat.	Bid Parameters MW and \$/\text{Mwhour}	Variability May vary by hour	Comments  Enter dDemand sSide #Resource's minimum reduction and bBid
Energy Block and Bid Price	C/ B		may vary by nour	price_ – Must be provided for commitment.
Dispatchable Energy Bids	C/B	For Single Price Block Bids: No. of Blocks	May vary by hour	Block bids would be separated by a narrow steep slope segment between each block.  Bids may consist of up to twelve monotonically increasing (i.e.,
		-\$/MW/Block		possessing a positive slope at all points) constant cost incremental  Energy steps in both SCUC and RTC.
		No. of steps, \$/MWh, and MWs of each step		Resulting bid "curves" must be monotonically increasing (possessing a positive slope at all points) for SCD.
		0 <b>#</b>		
		For Piecewise Linear Price Bids: Piecewise linear curve with MW		
		Output as independent variable and \$/MW as dependent variable		
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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#### 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 D-4 is required MW	May vary by hour Optional	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 Rate (from Table [1]) represent the maximum response range in MW and change Rate in MW/Min.	l
				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) Real-Time 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-6
	Da	ta Requiremei	its for <del>Gener</del>	ator-Operating Reserve Bids
Data Item  Class A 10 Minute Spinning Reserve Energy and Availability Bid	Cat. C/B/D	Bid Parameters  Same as in Table D-4. is required  Also, MW Available  -and-Day-Ahead-only \$/MW  Availability Price Bid	Variability  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	Comments  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 Market, such that its original Day-Ahead Energy schedule plus its 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 produced in place of providing Spinning Reserve will be paid Real-Time 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 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
Class B-10 Minute —Spinning Reserve —Availability Bid	C/B/D	MW Available and -\$AW Availability -Price Bid	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 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 operating at its Upper Operating Limit. The Energy must be available for at least 30 minutes.  A Class B unit is not committed or scheduled for LBMP 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.  An Emergency Response Rate (ERR) must be provided.
10-Minute Non- Synchronized 10-Minute Operating Reserve_Bid	C/B/D	MW Available and Day-Ahead only \$/MW Availability Price Bid	May vary by hour  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 Energy will be treated as offering Reserves at a price of \$0/MW.  Optional	MW Bid must be available 10 minutes after requested.  May be located External to NYCA provided the Inter-Control Area DNI Associated with this Resource can be changed in the required time.  If accepted Day-Ahead, it will be paid the Day-Ahead Non-Synchronized 10 Minute Reserve Availability Clearing Price. If accepted for Real-Time, it will be paid the Real-Time Non-Synchronized 10 Minute Reserve Availability Clearing Price. Any Energy produced will be paid Real-Time LBMP.  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.
30 Minute Operating Reserve Spinning or Non-Synchronized	C/B/D	MW Available and Day-Ahead only \$/MW Availability Price Bid	May vary by hour  Required Day- Ahead and nay vary by hour, in the Day- Ahead Market.	MW Bid must be available 30 minutes after requested.  May be located External to NYCA provided the Inter-Control Area DNI Associated with this Resource can be changed in the required time.  If accepted Day-Ahead, it will be paid the Day-Ahead 30 Minute Reserve

Real-Time Availability Bids will not be accepted All Generators and Demand Side Resources accepte to provide Energy will be treated as offering Reserves a a price of \$0/MW.	
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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. Unscheduled Operating Reserve may be bid into the BME (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	Cat.	Bid Parameters	Variability	Comments
Company Name	G		Static	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 iensure 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.

#### 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.

# 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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FERC Electric Tariff

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Attachment D

# Attachment D Table D-8 Data Requirements for Interruptible Load Spinning Reserve Bids

Data Item	Cat.	Bid Parameters	<b>Variability</b>	Comments
Interruptible Load for 10- Minute Spinning Reserve	C/B/D	MW Available, and \$/MW Availability -Price Bid	May Bid Day-Ahead	Spinning Reserve is Energy available in 10 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 spinning 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 spinning reserve in the form of a Load interruption); must be reflected to an ISO 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 Real-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/B/D	MW Available, and \$/MW Availability -Price Bid	May Bid 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 30 minute Reserve will be paid the Day-Ahead 30 minute Reserve Availability Clearing Price. If scheduled to provide 30 minute 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.

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

Unscheduled Operating Reserve may be bid into the BME (Hour Ahead) Market, and may have a different Bid cost than the Day-Ahead Bid.

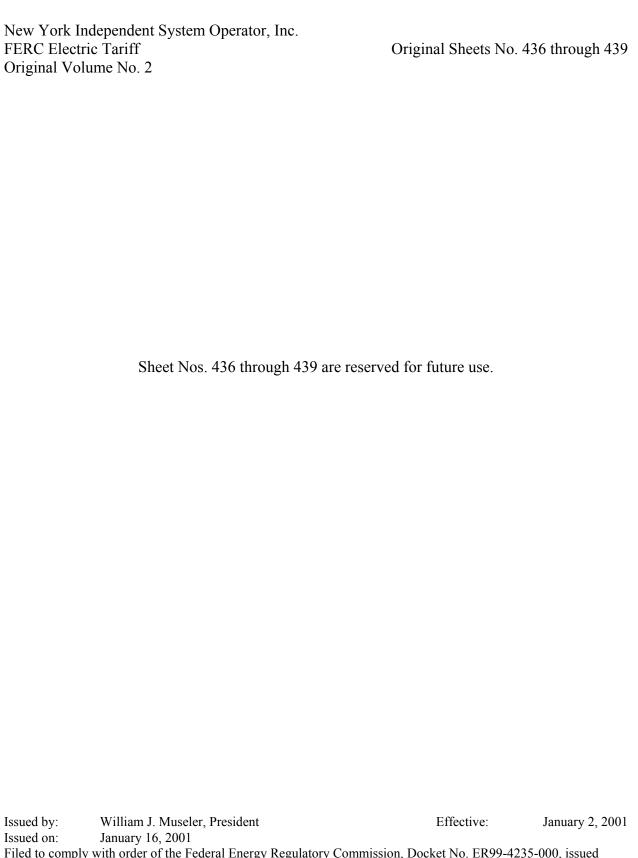
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