Acronyms				
Acronym	Definition	Acronym	Definition	
CA	Charge Allocation	FER	Forecast Energy Requirement	
CP	Clearing Price	GPA	Generator Performance Audit	
DA	Day-Ahead	HV VAR	High Voltage VAR	
DALO	Day-Ahead Load Obligation	LEG	Limited Energy Generator	
DARD	Dispatchable Asset Related Demand	LMP	Locational Marginal Price	
DDP	Desired Dispatch Point	LSCPR	Local Second Contingency Protection Resource	
DLOC	Dispatch Lost Opportunity Cost	LV VAR	Low Voltage VAR	
DRPA	Demand Response Performance Audit	MGE	Minimum Generation Emergency	
DRR	Demand Response Resource	NCPC	Net Commitment Period Compensation	
EDBD	Effective Demand Bid for Dispatch	OOM	Out of Merit	
EDBP	Effective Demand Bid When Postured (DARD)	RR	Reliability Region	
EDP	Economic Dispatch Point	RRPOC	Rapid Response Pricing Opportunity Cost	
EOC	Effective Offer for Commitment	RT	Real-Time	
EOD	Effective Offer for Dispatch	RTLO	Real-Time Load Obligation	
EOP	Effective Offer When Postured (Generator)	SCR	Special Constraint Resource	
EOWP	Effective Offer When Postured (DARD)	TMOR	Thirty Minute Operating Reserve	
ESD	Energy Storage Device	TMSR	Ten-Minute Spinning Reserve	
ET	External Transaction			

Related Calculation Summaries				
Calculation Summary	Related Market			
DA_NCPC_Calculation_Summary	Day-Ahead NCPC			
energy_market_calc_sum	Energy Market			
Related Market Information Server (MIS)				
Report Code	Report Long Name			
SD_RTNCPCCS	Real-Time NCPC Cancelled Start Credit Report			
SD_RTNCPCDARD5MIN	Real-Time DARD Commitment and Dispatch Report			
SD_RTNCPCDARDPYMT5MIN	Real-Time Net Commitment Period Compensation DARD Five Minute Payment Report			
SD_RTNCPCDARDPYMTHR	Real-Time Net Commitment Period Compensation DARD Payment Report			
SD_RTNCPCDDLOC	Real-Time Net Commitment Period Compensation DARD Dispatch LOC Payment Report			
SD_RTNCPCDLOC	Real-Time Net Commitment Period Compensation Dispatch LOC Report			
SD_RTNCPCDRR5MIN	Real-Time Demand Response Resource Commitment and Dispatch Report			
SD_RTNCPCDRRCS	Real-Time NCPC Demand Response Resource Cancelled Start Credit			
SD_RTNCPCDRRDLOC	Real-Time Net Commitment Period Compensation Demand Response Resource Dispatch LOC Report			
SD_RTNCPCDRRPYMT5MIN	Real-Time Net Commitment Period Compensation Demand Response Resource Five Minute Payment Report			
SD_RTNCPCDRRPYMTHR	Real-Time Net Commitment Period Compensation Demand Response Resource Payment Report			
SD_RTNCPCGEN5MIN	Real-Time Generator Commitment and Dispatch Report			
SD_RTNCPCHS	Real-Time NCPC Hourly Shortfall Payment Report			
SD_RTNCPCHSDARD	Real-Time Net Commitment Period Compensation DARD Hourly Shortfall Payment Report			
SD_RTNCPCHSDRR	Real-Time Net Commitment Period Compendation Demand Response Resource Hourly Shortfall Payment Report			
SD_RTNCPCPOSTGEN	Real-Time NCPC Generator Posturing Credit Report			
SD_RTNCPCPYMT5MIN	Real-Time Net Commitment Period Compensation Five Minute Payment Report			
SD_RTNCPCPYMTHR	Real-Time Net Commitment Period Compensation Payment Report			
SD_RTNCPCREALLOCATE	Real-Time NCPC Positive Deviation Economic Charge Reallocation Details Report			
SR_RTNCPCSTLMNTSUM	Real-Time NCPC Settlement Summary Report			

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5	RT NCPC Generator Commitment OOM MRT Credit			
6	RT NCPC Generator Commitment OOM Post MRT Credit			
7	RT NCPC Generator Dispatch OOM Credit			
8	RT NCPC Generator DLOC and RRPOC Credit			
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External Transaction Credit Calculation Summary				
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Charge Calculation Summary				
28	RT NCPC Economic Charges			
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30	RT NCPC LSCPR Charges			
31	RT NCPC Minimum Generation Emergency Charges			
32	RT NCPC Generator Performance Audit Charges			
33	RT NCPC Economic Posturing Charges			
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35	35 IRT NCPC Rapid Response Pricing Opportunity Cost Charges			





* If ESD is regulating, then Energy Quantity is not used in the calculation

Credit Calculation for Minimum Run Time (MRT) Period



* For any interval that corresponds to a Day-Ahead cleared hour, the Start-Up Fee, No Load Fee, and Energy price parameter for output up to the Resource's Economic Minimum Limit shall be set to \$0 for the hour.

** For any interval that corresponds to a Day-Ahead cleared hour, the revenue for output up to the Resource's Economic Minimum Limit shall be set to \$0 for the interval if such revenue is less than \$0.

Credit Calculation for Post MRT Period



Where:

(t, T) = Interval of contiguous five minute intervals contained in the settlement period.

N = Interval after the last interval of the minimum run time.

j - Integer for intervals between the interval after the last interval of the minimum run time and the end of the settlement period.

 \in - Is element of

* Five Minute RT Revenue and Five Minute RT Cost calculations are shown on the RT NCPC Generator Commitment OOM MRT Credit calculation summary.

Credit Calculation for Intervals Dispatched Above EDP



* If ESD is regulating, then Energy Quantity is not used in the calculation



* From the Reserve Market Settlement.

** Determined by the ISO's Locational Marginal Price Program

*** If ESD is regulating, then the Energy Quantity is not used in the calculation





* If prices were increased on the RT Effective Offer for Dispatch then the DA Economic Min MW is used for the Eligible Quantity for non-fast start generators, and zero is used for fast start generators.

Settlement Period Calculation





* If postured to remain on line but reduce output, the lesser of the EOC and EOD fee is used. If postured off line, the fee from the EOP is used.

** The hourly actual offer cost for a resource postured offline is zero.



* DA Cleared MW are zero if the transaction price was revised in the re-offer period.



* DA Cleared MW are zero if the transaction price was revised in the re-offer period.





* If ESD is regulating, then Energy Quantity is not used in the calculation

Credit Calculation for Minimum Run Time (MRT) Period



* For any interval that corresponds to a Day-Ahead cleared hour, the Start-Up Fee, No Load Fee, and Energy price parameter for output up to the Resource's Economic Minimum Limit shall be set to \$0 for the hour.

** For any interval that corresponds to a Day-Ahead cleared hour, the revenue for output up to the Resource's Economic Minimum Limit shall be set to \$0 for the interval if such revenue is less than \$0.

Credit Calculation for Post MRT Period



Where:

(t, T) = Interval of contiguous five minute intervals contained in the settlement period.

N = Interval after the last interval of the minimum run time.

j - Integer for intervals between the interval after the last interval of the minimum run time and the end of the settlement period.

 \in - Is element of

* Five Minute RT Bid and Five Minute RT Cost calculations are shown on the RT NCPC DARD Commitment OOM MRT Credit calculation summary.

Credit Calculation for Intervals Dispatched Above EDP





* From the Reserve Market Settlement.

** Determined by the ISO's Locational Marginal Price Program

*** If ESD is regulating, then the Energy Quantity is not used in the calculation





*The cost or revenue for the portion of Energy Quantity MWs that is associated with Demand Reductions will be increased by the Pool Distribution Loss Factor (current value is 0.055). **The cost or revenue for the portion of Energy Quantity MWs that is associated with Net Supply will be not increased by the Pool Distribution Loss Factor.

Credit Calculation for Minimum Run Time (MRT) Period



* For any interval that corresponds to a Day-Ahead cleared hour, the Interruption Cost and Energy price parameter for output up to the Resource's Minimum Reduction Limit shall be set to \$0 for the hour.

** For any interval that corresponds to a Day-Ahead cleared hour, the revenue for output up to the Resource's Minimum Reduction Limit shall be set to \$0 for the interval if such revenue is less than \$0.

*** The cost/revenue for the portion of MWs that is associated with Demand Reductions will be increased by the Pool Distribution Loss Factor (current value is 0.055). The cost/revenue for the portion of MWs that is associated with Net Supply will not be increased by the Pool Distribution Loss Factor.

Credit Calculation for Post MRT Period



Where:

(t, T) = Interval of contiguous five minute intervals contained in the settlement period.

N = Interval after the last interval of the minimum run time.

j - Integer for intervals between the interval after the last interval of the minimum run time and the end of the settlement period.

- Is element of

* Five Minute RT Revenue and Five Minute RT Cost calculations are shown on the RT NCPC Generator Commitment OOM MRT Credit calculation summary.

Credit Calculation for Intervals Dispatched Above EDP



*The cost/revenue for the portion of MWs that is associated with Demand Reductions will be increased by the Pool Distribution Loss Factor (current value is 0.055). The cost/revenue for the portion of MWs that is associated with Net Supply will not be increased by the Pool Distribution Loss Factor.



* From the Reserve Market Settlement.

** Determined by the ISO's Locational Marginal Price Program

*** The cost/revenue for the portion of MWs that is associated with Demand Reductions will be increased by the Pool Distribution Loss Factor (current value is 0.055). The cost/revenue for the portion of MWs that is associated with Net Supply will not be increased by the Pool Distribution Loss Factor.







* If prices were increased on the RT Effective Offer for Dispatch then the DA Min Reduction Limit MW is used for the Eligible Quantity for non-fast start demand response resource, and zero is used for fast start demand response resource. ** Current value is 0.055

RT_NCPC_Calculation_Summary.vsd **Most recent changes are shown in red.**





* ISO Curtailed External Transaction and Coordinated External Transactions are excluded from these values

Note: The relevant ISO New England Markets, Services and Transmission Tariff and the relevant Market Manuals, Operating Procedures and Planning Procedures shall govern.





Minimum Generation Emergency Period Calculations









