

ENERGY (THREE-PART OFFER) TEMPLATE AND VALIDATION RULES

Purpose: Used to specify the bids or offers for various resources like generators, loads, offtakes and injections. This template can be used for data submission in any window.

Users: This template is used by Participants to send their schedule data to the IESO. This template can also be used to view the bid data.

File Header Information:

<APPLICATION_TYPE>,<MARKET_TYPE>,<DELIVERY_DATE>,<PARTICIPANT_ID>,<USER_ID>,<VERSION_NO>,<MODE>;

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Bid Header Information:

<BID_TYPE>,<RESOURCE_ID>,<TIEPOINT_ID>,<DAILY_ENERGY_LIMIT>,<OPRES_RAMP_RATE>,<CANCEL_FLAG>,<STANDING_BID_FLAG>,[<STANDING_DAY_TYPE>],[<EXPIRY_DATE>;

Bid Body Information:

<HOUR_RANGE>,<NERCTAG_ID>,{(<PRICE>,<QUANTITY>)},{(<RR_QUANTITY>,<RR_UP>,<RR_DOWN>)},<10MIN_SPIN_OPRES>,<10MIN_NON_SPIN_OPRES>,<30MIN_OPRES>,<SPEED_NO_LOAD_COST>,<STARTUP_COST>,[<REASON_FOR_CHANGE>],[“<OTHER_REASONS>”];

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\\Field Formats and Validation Rules:

Field Name	Field Format and Validation Rules
<APPLICATION_TYPE>	"2-char" will be "PM" for Physical Market.
<MARKET_TYPE>	"10-char" will be "RTEM" for "Real Time Energy Market"
<DELIVERY_DATE>	"8-char" will be the dispatch date in the format of "YYYYMMDD". When submitting Standing Data (i.e. STANDING_BID_FLAG = "STANDING"), this field should be set to today's date. Note, however, that this field is ignored for the purpose of Standing Data entry validation. The date used for Standing Data entry validation is always (today's date +2).
<PARTICIPANT_ID>	"12-char" will be the name of participant. Must be a valid participant in the Master File.
<USER_ID>	"12-char" will be the name of user. Must be a valid user in the Master File associated to the Participant.
<VERSION_NO>	"6-char" will be the version of template and will be validated against the current version of the MOS Software. Currently not used.
<MODE>	"6-char" will indicate if the template is used only for testing or if it has real-time data. The valid values for <MODE> are "NORMAL" and "TEST".

Field Name	Field Format and Validation Rules
<BID_TYPE>	"10-char". Valid values are "GENERATOR", "LOAD", "OFFTAKE", "INJECTION", and "PSU".
<RESOURCE_ID>	"32-char" will be name of resource. Must be a valid resource in the Master File associated with the participant. If <BID_TYPE> is "INJECTION", must be any valid Constrained Scheduling Point (CSP) SOURCE. If <BID_TYPE> is "OFFTAKE", must be any valid CSP SINK.
<TIEPOINT_ID>	"32-char" If <BID_TYPE> is 'OFFTAKE' or 'INJECTION' then a valid Tiepoint ID associated with the CSP must be entered. Otherwise NULL (nothing) must be entered.
<DAILY_ENERGY_LIMIT>	"8-char" (999999.9) number indicating the daily energy limit. If <BID_TYPE> is 'LOAD' or 'OFFTAKE', then NULL (nothing) must be entered. If <BID_TYPE> is 'GENERATOR' or 'INJECTION', then the field value is optional (if entered, field value ≥ 0 and ≤ 999999.9).
<OPRES_RAMP_RATE>	"5-char", number format XXX.X MW/Min. If a value is specified: <ol style="list-style-type: none"> 1. For 'GENERATOR', value must be > 0 and ≤ 999.9 and \leqMaximum Ramp Rate. 2. For 'LOAD', the value must be > 0 and ≤ 999.9. 3. For 'INJECTION; and 'OFFTAKE' the value is defaulted to 999.9. If no value is specified: <ol style="list-style-type: none"> 1. For 'GENERATOR', the Maximum Ramp Rate value is used. 2. For 'LOAD', 'INJECTION' and 'OFFTAKE', the value used is 999.9.
<CANCEL_FLAG>	"6-char" Valid values are "CANCEL" or "SUBMIT". If <CANCEL_FLAG> is set to "CANCEL" then only the delivery hour or hour range is required IF that hour or hour range is within the Initial or Unrestricted market window. If the hour or any portion of the hour range is within the Mandatory window, or the bid/offer is subject to IESO operator approval due to DACP, the FULL bid structure must be submitted. DACP validation details are described in the Market Participant Graphical User Interface User's Guide.
<STANDING_BID_FLAG>	"10-char" Words "STANDING" or "NORMAL" are valid.
<STANDING_DAY_TYPE>	"3-char" will be from "MON" to "SUN" OR "ALL". Used only when <STANDING_BID_FLAG> is set to "STANDING".
<EXPIRY_DATE>	"8-char" optional field in the format of "YYYYMMDD". Used only when <STANDING_BID_FLAG> is set to "STANDING".
<HOUR_RANGE>	"5-char" will be in the range of 1-24. Indicates an hour, or range of hours. For example, HOUR 2 means hour ending 2.
<NERCTAG_ID>	"32 - char".

Field Name	Field Format and Validation Rules
<PRICE>	"8-char", number format = \$+XXXX.XX. Prices will be non-decreasing for OFFERS. Prices will be non-increasing for BIDS. Minimum MCP < Prices < Maximum MCP. Minimum two price/ quantity pairs. Maximum twenty price /quantity pairs. Price of first pair must equal price of second pair. Up to 24 sets, one for each hour of Market Data. Number of Prices = Number of Quantities.
<QUANTITY>	"6-char ", number format XXXX.X MW. Must be > 0 and <= Max Generator Capacity Minimum two price /quantity pairs. Maximum twenty price /quantity pairs Quantity of first pair must equal zero. Quantities will be non-negative Quantities are cumulative Quantities must increase monotonically Up to 24 sets, one for each hour of market data For internal generators that have registered Forbidden Regions, the price / quantity pairs must include a quantity equal to each of the lower and upper limits of each Forbidden Region within the offer range. The validation will ensure that no price/quantity curve segment overlaps both a Forbidden Region segment and a non-Forbidden Region segment. Forbidden Regions are defined in the Master File (PLC).
<RR_QUANTITY>	"6-char", number format XXXX.X. First <RR QUANTITY> must be >0.0. Last <RR_QUANTITY> must be >= max MW quantity in PQ pairs. Must increase monotonically. Must be non-negative.
<RR_UP>	"5-char", number format XXX.X. Must be <= Max. Ramp Rate for Resource.
<RR_DOWN>	"5-char", number format XXX.X. Must be <= Max Ramp Rate for Resource. There can be a maximum of 5 sets of 'Ramp Rates' and 'Ramp Break' points. These must be submitted as a set.
<SPEED_NO_LOAD_COST>	"5-char", number format XXXXX. Must be >= 0 and <= 99999. Indicates \$/hour.
<STARTUP_COST>	"6-char", number format XXXXXX. Must be >= 0 and <= 999999. Indicates \$/start.
<10MIN_SPIN_OPRES>	"1-char". Valid values are "Y"/"N". Not Used.
<10MIN_NONSPIN_OPRES>	"1-char". Valid values are "Y"/"N". Not Used.
<30MIN_OPRES>	"1-char". Valid values are "Y"/"N". Not Used.
<REASON_FOR_CHANGE>	"10-char" should be one of the predefined list of reasons or 'OTHER'. It is a mandatory field if the hour falls in the Mandatory Window. This field is also required for DACP bids/offers that are subject to IESO operator approval. DACP validation details are described in the Market Participant Graphical User Interface User's Guide. For all other cases this will be an optional field.

Field Name	Field Format and Validation Rules
<OTHER_REASON>	"128-char" If <REASON_FOR_CHANGE> is specified as 'OTHER' then there must be a <OTHER_REASON> entered. For all other cases this field must not be used.