Internal Bilateral Transactions User Interface

Contract Upload File Formats

SMS Contract File Upload Tracking Table

Ref Number	Change	Date
46545	"&" changed to "+", examples updated	01/15/03
3050	Added line that Contains a name of fixed MW pattern for On-peak - Off-peak patterns, if any. This name can be one of these: On-Peak 5x16, On-Peak 2x16, Off-Peak 5x8, Off-Peak 7x8, Off-Peak 2x24, Off-Peak 5x8 & 2x24	12/16/2002
22316	Changed XML File Format section to refer to online DTD, and XML File Examples section to use up-to-date DOCTYPE	8/18/2003
56917	Daylight saving extra hour format description is changed from "02:00:00*" to "2*:00:00" to reflect the implemented format.	9/15/2003
33384	Added FR_TMNSR, FR_TMOR contract categories	02/21/2006
33384	On the XML file format, changed the system and public IDs to refer to the new DTD version 1.1 (1_1)	08/03/2006
WARP	Updated URL on the XML file	09/28/2006
36117	Added CSV and XML Contract Extension File Format Excluded External ICAP Imports from the contracts submitted with Schedule	10/01/2006
Q2 2008	Accepted previous revision changes	01/18/2008

Date	By	Version	Comments
12/01/2008	Alla Tosenko	Q2_2009	Added External ICAP with Flexible Reservations Contract file upload format
05/05/2009	Alla Tosenko	FCM 2	Added Capacity Load Obligation Contract Type
06/03/2009	Vlad Antonevich	FCM2	Added examples of file upload formats for Capacity Obligation Contract, updated DOCTYPE to the new DTD version (1.3) in XML file examples
06/30/2009	Alla Tosenko	FCM 2	Added Capacity Supplemental Availability contract type; Removed contract length definition since it is defined in the *Internal Contracts Functional Specification* document
8/24/2009	Alla Tosenko	FCM 2	Changed Capacity Load Obligation, Capacity Supplemental Availability contract type labels to FCM Load Obligation, FCM Supplemental Availability respectively
10/28/2009	Alla Tosenko	FCM 2	Updated examples of the Capacity Supplemental Availability contract in XML file format
05/24/2010	Subhasish Parida	CBE v1	Added Marginal Loss Revenue Allocation Flag upload specification and example file.
06/16/2010	Jim Doyle	CBE v2	Moved MLR Flag from required line 1000 to new optional line 2050 in sections: • CSV File Format: CSV Contract Entry Upload File Format for both Contract Only and Contract and Schedule • CSV File Examples: CSV Hourly Contract Entry Upload File Example for both Contract Only and Contract and Schedule • CSV File Format Definitions Clarified MLR Flag description (only for DA and RT Energy contracts, includes/excludes contract in MLRLO) in sections: • CSV File Format Definitions • XML Contract Upload File Format Definitions – Submit_Contracts Updated Public Id and System Id from Contract Submission 1.3 to 1.4 and submit_contracts_1_3.dtd to submit_contracts_1_4.dtd in sections: • XML File Format • XML File Examples: XML Hourly Contract Entry Upload File Examples and XML Monthly Entry Upload File Examples
06/22/2010	Jim Doyle	CBE v3	Added start date validation to MLR Flag description in sections: • CSV File Format Definitions • XML Contract Upload File Format Definitions – Submit_Contracts
11/22/2013	Ben Yuan	Q1-2014	CR#77380: removed ICAP market (both internal and external) from Contract Upload; immediately stop an attempted ICAP upload with a message, like: “unknown category ICAP_INTERNAL”
07/14/2015	Jim Doyle	Div Acct Rel 3	Added Subaccount ID to uploads for Contract Only and Contract and Schedule. Added new CSV line 2025 with Subaccount ID: • CSV Contract Entry Upload File Format for both Contract Only and Contract and Schedule • CSV Hourly Contract Entry Upload File Examples for both Contract Only (added contract) and Contract and Schedule (updated ENERGY_RT contract) • CSV Contract Upload File Format Definitions Line Code and Field Added new XML SubaccountID attribute: • XML File Format and Examples use new Submit_Contracts 1.5 public and system ID • XML Hourly Contract Entry Upload File Examples for both Contract Only (added contract) and Contract and Schedule (updated ENERGY_RT contract) • XML Contract Upload File Format Definitions – Submit_Contracts

Table of Contents

CSV FILE FORMAT **5**

CSV CONTRACT ENTRY UPLOAD FILE FORMAT – CONTRACT ONLY 5
CSV CONTRACT ENTRY UPLOAD FILE FORMAT – CONTRACT AND SCHEDULE 5
CSV SCHEDULE PROFILE ENTRY UPLOAD FILE FORMAT 5
CSV CONTRACT TERMINATION UPLOAD FILE FORMAT 5

CSV FILE EXAMPLES **6**

CSV HOURLY CONTRACT ENTRY UPLOAD FILE EXAMPLE – CONTRACT ONLY 6
CSV HOURLY CONTRACT ENTRY UPLOAD FILE EXAMPLE – CONTRACT AND SCHEDULE 7
CSV HOURLY SCHEDULE PROFILE UPLOAD FILE EXAMPLE 8
CSV CONTRACT TERMINATION UPLOAD FILE EXAMPLE 9

CSV FILE FORMAT DEFINITIONS **10**

CSV CONTRACT UPLOAD FILE FORMAT DEFINITIONS - LINE CODE 10
CSV CONTRACT UPLOAD FILE FORMAT DEFINITIONS - FIELD 11

XML FILE FORMAT **16**

XML FILE EXAMPLES **17**

XML HOURLY CONTRACT ENTRY UPLOAD FILE EXAMPLE – CONTRACT ONLY 17
XML MONTHLY ENTRY UPLOAD FILE EXAMPLE – CONTRACT ONLY 19
XML HOURLY CONTRACT ENTRY UPLOAD FILE EXAMPLE – CONTRACT AND SCHEDULE 20
XML MONTHLY ENTRY UPLOAD FILE EXAMPLE – CONTRACT AND SCHEDULE 21
XML HOURLY SCHEDULE PROFILE UPLOAD FILE EXAMPLE 22
XML MONTHLY SCHEDULE PROFILE UPLOAD FILE EXAMPLE 23
XML CONTRACT TERMINATION UPLOAD FILE EXAMPLE 23

XML FILE FORMAT DEFINITIONS **24**

XML CONTRACT UPLOAD FILE FORMAT DEFINITIONS – SUBMIT_CONTRACTS (W/WO SCHEDULE) 24
XML SCHEDULE PROFILE UPLOAD FILE FORMAT DEFINITIONS – SUBMIT_SCHEDULES 28
XML CONTRACT TERMINATION UPLOAD FILE FORMAT DEFINITIONS – TERMINATE_CONTRACTS 29

CSV File Format

CSV Contract Entry Upload File Format – Contract Only

<Component>
<Contract Entry>
***
1000,<Contract Category >,<Seller ID>,<Buyer ID>,< Location ID>,<Reference ID>,<Begin Date>,<End Date>
2000,<Confirm Level Flag>
2025,<Subaccount ID>
2050,<MLR Flag>
3000,<Fixed MW Amount>
3050,<Fixed MW Pattern>
5000,<Asset Id>,<Transaction Type>,<EFORd>
6000, <Supplementing Resource ID>,<Supplemented Resource ID>***

CSV Contract Entry Upload File Format – Contract and Schedule

<Component>
<Contract Entry>
***
1000,<Contract Category >,<Seller ID>,<Buyer ID>,< Location ID>,<Reference ID>,<Begin Date>,<End Date>
2000,<Confirm Level Flag>
2025,<Subaccount ID>
2050,<MLR Flag>
3000,<Fixed MW Amount>
4XXX,<Date>
4XXX,<Profile Interval>,<MW>
4XXX,<Profile Interval>,<MW>
4XXX,<Profile Interval>,<MW>
(up to 25 of these for each day of the contract)
5000,<Asset Id>,<Transaction Type>,<EFORd>
6000, <Supplementing Resource ID>,<Supplemented Resource ID>

CSV Schedule Profile Entry Upload File Format

<Component>
<Contract Entry>
***
1001<Contract ID>,<Contract Category >,<Seller ID>,<Buyer ID>
4XXX,<Date>
4XXX,< Profile Interval>,<MW>
4XXX,< Profile Interval>,<MW>
4XXX,< Profile Interval>,<MW>
(up to 25 of these for each day of the contract)

CSV Contract Termination Upload File Format

<Component>
<Contract Entry>
***
9000,<Contract ID>,<Contract Category >,<Seller ID>,<Buyer ID>,<Termination Begin Date>

CSV File Examples

CSV Hourly Contract Entry Upload File Example – Contract Only

```
Contract
Cont
***
1000,ENERGY_DA,1,2,901,xxx,11/01/2002 11:00:00,11/3/2003 6:00:00
2000,C
3000,50.675
3050,On-Peak 5x16
***
1000,ENERGY_DA,1,2,401,xxx,11/01/2002 11:00:00,11/3/2003 6:00:00
2000,P
***
1000,ENERGY_DA,1,2,401,xxx,12/01/2010 11:00:00,12/03/2010 6:00:00
2000,P
2050,N
***
1000,ENERGY_RT,1,2,401,xxx,02/21/2002 01:00:00,02/28/2002 24:00:00
2000,C
3000,50.675
***
1000,ENERGY_RT,1,2,401,xxx,02/21/2002 01:00:00,02/28/2002 24:00:00
2000,P
***
1000,ENERGY_RT,1,2,401,xxx,12/21/2010 01:00:00,12/28/2010 24:00:00
2000,P
2050,Y
***
1000,ENERGY_RT,1,2,401,xxx,12/21/2014 01:00:00,12/28/2014 24:00:00
2000,P
2025,XYZSubaccount
2050,Y
***
1000,LOAD_RT,1,3,601,xxx,11/21/2002 01:00:00,11/23/2003 6:00:00
2000,C
***
1000,REGULATION_RT,1,2,  ,xxx,11/01/2002 11:00:00,11/3/2003 6:00:00
2000,P
***
1000,FR_TMNSR,1,2,801,xxx,10/01/2006 08:00:00,11/2/2006 23:00:00
2000,P
3000,10.000
3050,On-Peak 5x16
***
1000,FR_TMOR,1,2,802,xxx,10/01/2006 01:00:00,05/31/2007 24:00:00
2000,C
***
1000, FCM_SUPPLEMENTAL_AVAILABILITY,1,2, ,xxx,06/29/2010 01:00:00,06/30/2010 24:00:00
2000,P
6000, 1101,1107
***
```

CSV Hourly Contract Entry Upload File Example – Contract and Schedule

Contract
Cont
***
1000,ENERGY_RT,1,2,401,xxx,12/21/2014 01:00:00,12/28/2014 24:00:00
2000,P
2025,XYZSubaccount
2050,Y
4001,12/21/2014
4001,1,75
4001,2,75
… (lines for hours 0300 to 2300)
4001,24,75.9
***
1000,LOAD_RT,1,3,601,xxx,11/21/2002 01:00:00,11/23/2003 6:00:00
2000,C
4001,11/21/2002
4001,1,150
4001,2,250
… (lines for hours 0300 to 2300)
4001,24,150
4002,11/23/2002
4002,1,100
4002,2,200
… (lines for hours 0300 to 2300)
4002,24,100
***
1000,FR_TMNSR,1,2,801,xxx,10/01/2006 08:00:00,10/02/2006 23:00:00
2000,P
4001,10/01/2006
4001,8,150
4001,9,250
… (lines for hours 1000 to 2200)
4001,23,150
4002,10/02/2006
4002,8,100
4002,9,200
… (lines for hours 1000 to 2200)
4002,23,100
***
1000, FCM_SUPPLEMENTAL_AVAILABILITY,1,2, ,xxx,06/29/2010 16:00:00,06/30/2010 24:00:00
2000,P
4001,06/29/2010
4001,16,5.549
4001,17,5.549
4002,06/30/2010
4002,17,25
4002,18,25
4002,23,50
4002,24,50
6000,1101,1107

CSV Hourly Schedule Profile Upload File Example

Contract
Sched Profile
***
1001,20001, ENERGY_RT,1,2
4001,02/21/2002
4001,1,75.1
4001,2,75.2
… (lines for hours 0300 to 2300)

4001,24,75.245
***
1001,20002, ENERGY_DA,1,3
4001,11/21/2002
4001,1,100
4001,2,120
… (lines for hours 0300 to 2300)

4001,24,110
4002,11/23/2002
4002,1,110
4002,2,120
… (lines for hours 0300 to 2300)

4002,24,120
***
1000,30001,FR_TMNSR,1,2,
4001,10/01/2006
4001,8,150
4001,9,250
… (lines for hours 1000 to 2200)

4001,23,150
4002,10/02/2006
4002,8,100
4002,9,200
… (lines for hours 1000 to 2200)

4002,23,100
***
1000, 50201,FCM_SUPPLEMENTAL_AVAILABILITY,1,2
4001,06/29/2010
4001,16,5.349
4001,17,5.549
4002,06/30/2010
4002,17,25
4002,18,25
4002,23,50
4002,24,50

CSV Contract Termination Upload File Example

Contract
Termination
***
9000,20001,ENERGY_RT,1,2,11/3/2002 16:00:00

CSV File Format Definitions

CSV Contract Upload File Format Definitions - Line Code

Code	Description
Component	Contract
Contract Entry	Will contain one of the following: Cont, Sched Profile, Termination
XXX	Sequential number starting from 00 or 001. Lines with code XX and XXX mean this contract can have multiple lines of the same format: each additional line will have the number incremented by 1.
1000	For Cont Entry. Line with code 1000 contains initial contract information.
1001	For Sched Profile Entry. Line with code 1001 contains existing contract information to be linked to the Schedule Profile.
2000	For Cont Entry. Contains Confirmation Level choice (contract only confirm, schedule confirm).
2025	For Cont Entry. Contains Subaccount ID. Only used for contract categories with a Subaccount granularity: • ENERGY_DA • ENERGY_RT • LOAD_RT • FCM_LOAD_OBLIGATION Optional line, see Subaccount ID Field definition below.
2050	For Cont Entry. Contains MLR Flag. Only used for DA and RT Energy contract entry. Optional line, see MLR Flag Field definition below.
3000	Contains a fixed MW amount for the entire contract duration, if chosen.
3050	Contains a name of fixed MW pattern for On-peak - Off-peak patterns, if any. Not applicable for contracts with monthly profiles. This name can be one of these: On-Peak 5x16, On-Peak 2x16, Off-Peak 5x8, Off-Peak 7x8, Off-Peak 2x24, Off-Peak 5x8 + 2x24.
4XXX	Lines with code 4XXX contain schedule profile information. Hourly Profiles for contract sequential day XXX (4001 code is used for the first day of profile lines, 4002 – for the second day, etc.): • the first in 4XXX line series specifies Date of the contract; • the remaining (25 or less) in 4XXX line series contain Profile Hour and MW Amount • series of lines for a day are separated by the divider line (“***”) Monthly Profiles: • Only 4001 code is used • 4001 lines (12 or less) contain Profile Month and MW amount The first 4001 line specifies the date, while the remaining (25 or less) 4001 lines contain the Profile Hour, MW amount. Cannot be used at the same time as 3000.
6000	For Cont Entry of the FCM Supplemental Availability contract type only. Contains Supplementing Resource ID and Supplemented Resource ID
9000	For Termination Entry. Contains information to identify a contract to terminate and a termination date.

CSV Contract Upload File Format Definitions - Field

CSV Line Code	Field	Description	Format	Required
N/A	Component	Contains the word "Contract" to describe what kind of file upload this is.	N/A	Yes
N/A	Contract Entry	Will contain one of the following: • ***Cont*** • ***Sched Profile*** • ***Termination***	N/A	Yes
N/A	***	Three Asterisks – Used to separate Contracts.	N/A	Yes
1000	Contract Category	Will contain one of the following: ***ENERGY_DA*** – Internal Bilateral contract for Energy Day Ahead Market , ***ENERGY_RT*** – Internal Bilateral contract for Energy Real Time Market, ***REGULATION_RT*** – Internal Bilateral contract for Regulation Market, ***LOAD_RT*** – Internal Bilateral contract for Energy Real Time Load, ***FR_TMNSR*** – Internal Bilateral contract for Ten-Minute Non-Spinning Reserve in the Locational Forward Reserve Market ***FR_TMOR*** – Internal Bilateral contract for Thirty-Minute Operating Reserve in the Locational Forward Reserve Market ***FCM_LOAD_OBLIGATION*** – Internal Bilateral contract for the Forward Capacity Market (FCM) ***FCM_SUPPLEMENTAL_AVAILABILITY*** – Supplemental Availability Bilateral contract for the Forward Capacity Market (FCM)	N/A	Yes
1000	Seller Identifier	Contains the numeric identifier of the customer who is supplying market service through a Contract. For an Internal Contract it must be a Participant	Maximum length is 9 characters.	Yes
1000	Buyer Identifier	Contains the numeric identifier of the customer who is receiving market service through a Contract. For an Internal Contract it must be a Participant.	Maximum length is 9 characters.	Yes
1000	Location ID	Contains the numeric identifier of the Contract Location Identifier (Network Node Id, or Load Zone Id, or Reserve Zone, or HUB Id, or Capacity Zone). If Contract category is REGULATION_RT, or FCM_SUPPLEMENTAL_AVAILABILITY then the "Location ID" must be BLANK.	Maximum length is 9 characters.	Yes
1000	Participants Reference ID	Contains an internal reference identifier for the Participant's use. Note: Do not use commas within the data contained in the field. For contract with no	Maximum length is 25 characters and free form.	No

CSV Line Code	Field	Description	Format	Required
		reference ID leave blank.		
1000	Begin Date	Contains the starting date for which the contract will be effective (hour ending).	MM/DD/YYYY HH:MM:SS Length must be less or equal 19 characters. (daylight savings extra hour = 2*:00:00)	Yes
1000	End Date	Contains the ending date of the contract (hour ending).	MM/DD/YYYY HH:MM:SS Length must be less or equal 19 characters. (daylight savings extra hour = 2*:00:00)	Yes
1001	Contract Identifier	Numeric Identifier of the contract which this schedule is part of. This Identifier was generated when contract was entered into the Market System.	Maximum length is 9 characters.	Yes
1001	Contract Category	Contains one of the following (see Line 1000 definitions): ENERGY_DA, ENERGY_RT, REGULATION_RT, LOAD_RT, FR_TMNSR FR_TMOR FCM_LOAD_OBLIGATION FCM_SUPPLEMENTAL_AVAILABILITY	Validate against the original contract Category	Yes
1001	Seller Identifier	Contains the numeric identifier of the customer who is supplying market service through a Contract. For an Internal Contract it must be a Participant.	Maximum length is 9 characters. Validate against the original contract Seller ID.	Yes
1001	Buyer Identifier	Contains the numeric identifier of the customer who is receiving market service through a Contact. For an Internal Contract it must be a Participant.	Maximum length is 9 characters. Validate against the original contract Buyer ID.	Yes
2000	Confirm Level flag	Contains Confirmation Level choice (contract only confirm, schedule profile confirm).	'C' - Contract confirm = Only the initial contract need be confirm. Any subsequent schedules entered are automatically confirmed.	Yes

CSV Line Code	Field	Description	Format	Required
			'P' - Schedule Profile Confirm = All schedules entered as well as the initial contract must be confirmed. Maximum length is 1 character.	
2025	Subaccount ID	Line 2025 specifies the contract originator Subaccount ID for contracts with a Subaccount granularity (see line code definition above for contract categories with a Subaccount granularity). The contract originator is the customer represented by the user submitting the upload in the Internal Bilateral Transactions User Interface, either the contract's buyer or the seller. Contracts with a Subaccount granularity have one Subaccount for the buyer and one Subaccount for the seller. For these contracts, line 2025 is optional, and if not supplied, then the contract originator Subaccount ID is defaulted to the contract originator's default Subaccount ID ("Default"). If the line is supplied, it must specify the Subaccount ID of one of the contract originator's Subaccounts (which includes "Default"), and this Subaccount must have Active status for the period of the contract. The Subaccount will apply to settlements of all intervals during the period of the contract. Settlements applying a MW Amount for the contract to the contract originator's settlement will assign that entire MW Amount to this one Subaccount. The Internal Bilateral Transactions User Interface may be used to later change this Subaccount, or assign different Subaccounts for different months of a contract spanning multiple months. The other contract party customer (buyer or seller) is unaffected by the contract originator Subaccount ID, and may specify their Subaccount ID(s) in the Internal Bilateral Transactions User Interface after the contract has been uploaded.	Maximum length is 100 characters.	No
2050	Marginal Loss Revenue Allocation Flag	Line 2050 is only used for DA and RT Energy contracts, and specifies the contract's Marginal Loss Revenue Allocation Flag. For DA and RT Energy contracts the line is optional, and if not supplied, then the contract's flag is defaulted to be Y. If the line is supplied, it must specify a Y or N value for the flag. If the contract's flag is Y, then the contract will be included in the calculation of Marginal Loss Revenue Load Obligation used in the allocation	Maximum length is 1 character which is either "Y" or "N"	No

CSV Line Code	Field	Description	Format	Required
		of Marginal Loss Revenues. If the contract's flag is N, then the contract will be excluded from the calculation of Marginal Loss Revenue Load Obligation used in the allocation of the Marginal Loss Revenues. The contract's flag must be Y when the contract's Begin Date is prior to the Credit and Billing Enhancements Start Date 12/01/2010, or the upload will be rejected.		
3000	Fixed MW Amount	Contains MW Amount for the entire contract duration. For an hourly market contract, this value will be applied to each hour of the contract. If Fixed MW Pattern field is specified, this value will be applied according to the pattern specified. For a monthly market contract, this value will be applied to each month of the contract. If this field is not blank then the "Contract Level flag" must equal "C",	Total length cannot exceed 10 characters and it includes 3 decimal places.	No
3050	Fixed MW Pattern	Can contain a name for the On-peak - Off-peak pattern. This can be applied to contracts where Fixed MW Amount field is specified. For FR_TMNSR and FR_TMOR contracts only the On-Peak 5x16 (weekdays) pattern is applicable. Not applicable for any FCM_LOAD_OBLIGATION contracts.	Can contain one of the following: On-Peak 5x16 On-Peak 2x16 Off-Peak 5x8 Off-Peak 7x8 Off-Peak 2x24 Off-Peak 5x8 + 2x24	No
4XXX	Date	Contains the specific date for which the following contract mw information will be applied to. Not applicable for any FCM_LOAD_OBLIGATION contract.	MM/DD/YYYY Length must equal 10 characters.	Yes
4XXX	Profile Interval	Contains the ending hour corresponding to the MW amount below.	Hourly – Numeric from 1 – 24 (daylight-saving extra hour = 2*). Monthly – Numeric from 1-12.	Yes
4XXX	MW	Contains the Schedule Profile MW amount.	Total length cannot exceed 10 characters and it includes 3 decimal places.	Yes
6000	Supplementing Resource ID	Numeric identifier of the Supplementing Resource ID associated with a FCM_SUPPLEMENTAL_AVAILABILITY contract	Maximum length is 9 characters.	Yes
6000	Supplemented Resource ID	Numeric identifier of the Supplemented Resource ID associated with a FCM_SUPPLEMENTAL_AVAILABILITY contract	Maximum length is 9 characters.	Yes
9000	Contract ID	Numeric Identifier of the contract to be terminated. This Identifier was generated when contract was entered into the Market System.	Maximum length is 9 characters.	Yes

CSV Line Code	Field	Description	Format	Required
9000	Contract Category	Contains one of the following (see Line 1000 definitions): ENERGY_DA, ENERGY_RT, REGULATION_RT, LOAD_RT, FR_TMNSR FR_TMOR FCM_LOAD_OBLIGATION FCM_SUPPLEMENTAL_AVAILABILITY	Validate against the original contract Category.	Yes
9000	Seller Identifier	Contains the numeric identifier of the customer supplying the Market Service for the contract that is to be terminated. For an Internal contract it can be a Participant or Non-Participant. For an External import it must be a Non-Participant.	Maximum length is 9 characters. Validate against the original contract Seller ID.	Yes
9000	Buyer Identifier	Contains the numeric identifier of the customer receiving the Market Service for the contract that is to be terminated. For an Internal contract it can be a Participant or Non-Participant. For an External import it must be a Participant.	Maximum length is 9 characters. Validate against the original contract Buyer ID	Yes
9000	Termination Begin Date	Contains the date on which the contract will be terminated. This date must fall within the start and stop dates of the contract. This hour is the first hour of contract inactivity.	MM/DD/YYYY HH:MM:SS Length must be less or equal 19 characters. (daylight savings extra hour = 2*:00:00)	Yes

XML File Format

The following table lists the "Public Id" and "System Id" for each type of IBT upload file.

The "Public Id" is a unique name describing the file format. When a customer uploads a file to a system at ISO-NE, the system recognizes the file format based on the Public Id.

The "System Id" is a URL where the file format itself can be retrieved. Anyone may download the file format from the System Id URL and read it. For instance, the file format for XML Contract Entry Upload may be read in a web browser like Internet Explorer by opening the URL "http://www.iso-ne.com/static-assets/documents/2015/07/submit_contracts_1_5.dtd". The System Id has other purposes as well. When a customer views an upload file in a tool like Internet Explorer, the tool uses the System Id to download the file format and process the upload file for display.

Every XML upload file is expected to start with two lines: the XML line, and a DOCTYPE line with the Public Id and the System Id. For instance, an XML Contract Entry Upload file must begin with these two lines:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE Submit_Contracts PUBLIC '-//ISO New England, Inc//DTD Contract
Submission 1.5//EN' 'http://www.iso-ne.com/static-
assets/documents/2015/07/submit_contracts_1_5.dtd'>
```

Upload Type	Public Id	ISO-NE published System Id
XML Contract Entry Upload	-//ISO New England, Inc//DTD Contract Submission 1.5//EN	http://www.iso-ne.com/static-assets/documents/2015/07/submit_contracts_1_5.dtd
XML Schedule Profile Upload	-//ISO New England, Inc//DTD Schedule Submission 1.3//EN	http://www.iso-ne.com/support/tech/dtd/sms/submit_schedules_1_3.dtd
XML Contract Termination Upload	-//ISO New England, Inc//DTD Contract Termination 1.3//EN	http://www.iso-ne.com/support/tech/dtd/sms/terminate_contracts_1_3.dtd

XML File Examples

XML Hourly Contract Entry Upload File Example – Contract Only

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE Submit_Contracts PUBLIC '-//ISO New England, Inc//DTD Contract Submission 1.5//EN' 'http://www.iso-ne.com/static-assets/documents/2015/07/submit_contracts_1_5.dtd'>

<Submit_Contracts>

  <Contract Category="ENERGY_DA" Seller="1" Buyer="2" Location="901" ConfirmationLevel="C" Reference="xxx" MLRFlag="Y">
    <BeginDate>11/1/2002 11:00:00 </BeginDate>
    <EndDate> 11/03/2003 06:00:00 </EndDate>
    <FixedMWAmount>50.675</FixedMWAmount>
    <FixedMWAmountPattern>On-Peak 5x16</FixedMWAmountPattern>
  </Contract>

  <Contract Category="ENERGY_DA" Seller="1" Buyer="2" Location="401" ConfirmationLevel="P" Reference="xxx">
    <BeginDate>11/1/2002 11:00:00 </BeginDate>
    <EndDate> 11/03/2003 06:00:00 </EndDate>
  </Contract>

  <Contract Category="ENERGY_RT" Seller="1" Buyer="2" Location="401" ConfirmationLevel="C" Reference="xxx" MLRFlag="Y">
    <BeginDate>12/21/2010 1:00:00 </BeginDate>
    <EndDate> 12/28/2010 24:00:00 </EndDate>
    <FixedMWAmount>50.675</FixedMWAmount>
  </Contract>

  <Contract Category="ENERGY_RT" Seller="1" Buyer="2" Location="401" ConfirmationLevel="C" Reference="xxx" MLRFlag="N">
    <BeginDate>12/21/2010 1:00:00 </BeginDate>
    <EndDate> 12/28/2010 24:00:00 </EndDate>
  </Contract>

  <Contract Category="ENERGY_RT" Seller="1" Buyer="2" Location="401" ConfirmationLevel="P" Reference="xxx" SubaccountID="XYZSubaccount" MLRFlag="Y">
    <BeginDate>12/21/2014 1:00:00 </BeginDate>
    <EndDate> 12/28/2014 24:00:00 </EndDate>
  </Contract>

  <Contract Category="FR_TMNSR" Seller="1" Buyer="2" Location="801" ConfirmationLevel="P" Reference="xxx">
    <BeginDate>10/01/2006 8:00:00 </BeginDate>
    <EndDate> 10/02/2006 23:00:00 </EndDate>
    <FixedMWAmount>10.000</FixedMWAmount>
    <FixedMWAmountPattern>On-Peak 5x16</FixedMWAmountPattern>
  </Contract>
```

```
  <Contract Category="FR_TMOR" Seller="1" Buyer="2" Location="802" ConfirmationLevel="C" Reference="xxx">
    <BeginDate>10/01/2006 01:00:00 </BeginDate>
    <EndDate> 05/31/2007 24:00:00 </EndDate>
  </Contract>

  <Contract Category="FCM_SUPPLEMENTAL_AVAILABILITY " Seller="1" Buyer="2" Location="  "
ConfirmationLevel="P" Reference="xxx">
    <BeginDate>06/29/2010 16:00:00 </BeginDate>
    <EndDate> 06/30/2010 24:00:00 </EndDate>
    <SupplementingResourceID>1103</SupplementingResourceID>
    <SupplementedResourceID>1102</SupplementedResourceID>
  </Contract>
</Submit_Contracts>
```

XML Monthly Entry Upload File Example – Contract only

FCM Load Obligation

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE Submit_Contracts PUBLIC '-//ISO New England, Inc//DTD Contract Submission 1.5//EN' 'http://www.iso-ne.com/static-assets/documents/2015/07/submit_contracts_1_5.dtd'>
<Submit_Contracts>
<Contract Category='FCM_LOAD_OBLIGATION' Seller='1' Buyer='2' Location='2001' ConfirmationLevel='P' Reference='xxx'>
    <BeginDate>12/01/2010 1:00:00</BeginDate>
    <EndDate> 03/31/2011 24:00:00</EndDate>
  </Contract>
  <Contract Category='FCM_LOAD_OBLIGATION' Seller='50001' Buyer='2' Location='2001' ConfirmationLevel='C' Reference='xxx'>
    <BeginDate>06/01/2010 1:00:00</BeginDate>
    <EndDate>06/30/2010 24:00:00</EndDate>
  </Contract>
  <Contract Category='FCM_LOAD_OBLIGATION' Seller='50001' Buyer='2' Location='2001' ConfirmationLevel='C' Reference='xxx'>
    <BeginDate>06/01/2010 1:00:00</BeginDate>
    <EndDate>05/31/2011 24:00:00</EndDate>
    <FixedMWAmount>20.000</FixedMWAmount>
  </Contract>
</Submit_Contracts>
```

XML Hourly Contract Entry Upload File Example – Contract and Schedule

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE Submit_Contracts PUBLIC '-//ISO New England, Inc//DTD Contract Submission 1.5//EN' 'http://www.iso-ne.com/static-assets/documents/2015/07/submit_contracts_1_5.dtd'>

<Submit_Contracts>

 <Contract Category="ENERGY_RT" Seller="1" Buyer="2" Location="401" ConfirmationLevel="P" Reference="xxx"
 SubaccountID="XYZSubaccount" MLRFlag="Y">
     <BeginDate>12/21/2014 1:00:00 </BeginDate>
     <EndDate> 12/28/2014 24:00:00 </EndDate>
     <Schedule Date="12/21/2014">
       <Profile Interval ="1" MWAmount="75"/>
       <Profile Interval ="2" MWAmount="75"/>
       <Profile Interval ="24" MWAmount="75.9"/>
     </Schedule>
     <Schedule Date="12/22/2014">
       <Profile Interval ="1" MWAmount="25"/>
       <Profile Interval ="2" MWAmount="25"/>
       <Profile Interval ="24" MWAmount="25"/>
     </Schedule>
   </Contract>

   <Contract Category="LOAD_RT" Seller="1" Buyer="3" Location="601" ConfirmationLevel="C" Reference="xxx">
     <BeginDate>11/21/2002 1:00:00 </BeginDate>
     <EndDate> 11/23/2003 6:00:00 </EndDate>
     <Schedule Date="11/21/2002">
       <Profile Interval ="1" MWAmount="150"/>
       <Profile Interval ="2" MWAmount="250"/>
       <Profile Interval ="24" MWAmount="150"/>
     </Schedule>
     <Schedule Date="11/23/2002">
       <Profile Interval ="1" MWAmount="100"/>
       <Profile Interval ="2" MWAmount="200"/>
       <Profile Interval ="24" MWAmount="100"/>
     </Schedule>
   </Contract>

   <Contract Category="FR_TMOR" Seller="1" Buyer="2" Location="803" ConfirmationLevel="C" Reference="xxx">
     <BeginDate>11/21/2006 8:00:00 </BeginDate>
     <EndDate> 11/22/2006 10:00:00 </EndDate>
     <Schedule Date="11/21/2006">
       <Profile Interval ="8" MWAmount="150"/>
       <Profile Interval ="9" MWAmount="250"/>
       <Profile Interval ="10" MWAmount="150"/>
     </Schedule>
     <Schedule Date="11/22/2006">
       <Profile Interval ="8" MWAmount="100"/>
       <Profile Interval ="9" MWAmount="200"/>
       <Profile Interval ="10" MWAmount="100"/>
     </Schedule>
   </Contract>
```

```
<Contract Category="FCM_SUPPLEMENTAL_AVAILABILITY " Seller="1" Buyer="2" Location="  "
ConfirmationLevel="P" Reference="xxx">
    <BeginDate>06/29/2010 16:00:00 </BeginDate>
    <EndDate> 06/30/2010 24:00:00 </EndDate>
    <Schedule Date="06/29/2010">
      <Profile Interval ="16" MWAmount="5.549"/>
      <Profile Interval ="17" MWAmount="5.549"/>
    </Schedule>
    <Schedule Date="06/30/2010">
      <Profile Interval ="17" MWAmount="25"/>
      <Profile Interval ="18" MWAmount="25"/>
      <Profile Interval ="23" MWAmount="50"/>
      <Profile Interval ="24" MWAmount="50"/>
    </Schedule>
    <SupplementingResourceID>1103</SupplementingResourceID>
    <SupplementedResourceID>1102</SupplementedResourceID>
  </Contract>

</Submit_Contracts>
```

XML Monthly Entry Upload File Example – Contract and Schedule

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE Submit_Contracts PUBLIC '-//ISO New England, Inc//DTD Contract Submission 1.5//EN' 'http://www.iso-
ne.com/static-assets/documents/2015/07/submit_contracts_1_5.dtd'>

<Submit_Contracts>

<Contract Category='FCM_LOAD_OBLIGATION' Seller='1' Buyer='2' Location='2001' ConfirmationLevel='P'
Reference='xxx'>
    <BeginDate> 11/01/2010 1:00:00  </BeginDate>
    <EndDate> 01/31/2011 24:00:00  </EndDate>
    <Schedule>
      <Profile Interval ='11' MWAmount='50'/>
      <Profile Interval ='12' MWAmount='100'/>
      <Profile Interval ='1' MWAmount='75'/>
    </Schedule>
  </Contract>
  </Submit_Contracts>
```

XML Hourly Schedule Profile Upload File Example

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE Submit_Schedules PUBLIC '-//ISO New England, Inc//DTD Schedule Submission 1.3//EN'
'http://www.iso-ne.com/support/tech/dtd/sms/submit_schedules_1_3.dtd'>

<Submit_Schedules>

  <Contract ID="20001" Category="ENERGY_RT" Seller="1" Buyer="2">
    <Schedule Date="2/21/2002">
      <Profile Interval ="1" MWAmount="75.1"/>
      <Profile Interval ="2" MWAmount="75.2"/>
      <Profile Interval ="24" MWAmount="24.245"/>
    </Schedule>
  </Contract>

  <Contract ID="20002" Category="ENERGY_DA" Seller="1" Buyer="3">

    <Schedule Date="11/21/2002">
      <Profile Interval ="1" MWAmount="100"/>
      <Profile Interval ="2" MWAmount="120"/>
      <Profile Interval ="24" MWAmount="110"/>
    </Schedule>

    <Schedule Date="11/23/2002">
      <Profile Interval ="1" MWAmount="110"/>
      <Profile Interval ="2" MWAmount="120"/>
      <Profile Interval ="24" MWAmount="120"/>
    </Schedule>

  </Contract>

  <Contract ID="30099" Category="FR_TMOR" Seller="1" Buyer="2">

    <Schedule Date="11/21/2006">
      <Profile Interval ="8" MWAmount="100"/>
      <Profile Interval ="9" MWAmount="120"/>
      <Profile Interval ="10" MWAmount="110"/>
    </Schedule>

    <Schedule Date="11/22/2006">
      <Profile Interval ="8" MWAmount="110"/>
      <Profile Interval ="9" MWAmount="120"/>
      <Profile Interval ="10" MWAmount="120"/>
    </Schedule>

  </Contract>

  <Contract ID="50202" Category="FCM_SUPPLEMENTAL_AVAILABILITY " Seller="1" Buyer="2">
    <Schedule Date="06/29/2010">
      <Profile Interval ="16" MWAmount="5.549"/>
      <Profile Interval ="17" MWAmount="5.549"/>
    </Schedule>
```

```
    <Schedule Date="06/30/2010">
      <Profile Interval ="17" MWAmount="25"/>
      <Profile Interval ="18" MWAmount="25"/>
      <Profile Interval ="23" MWAmount="50"/>
      <Profile Interval ="24" MWAmount="50"/>
    </Schedule>
  </Contract>
</Submit_Schedules>
```

XML Monthly Schedule Profile Upload File Example

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE Submit_Schedules PUBLIC '-//ISO New England, Inc//DTD Schedule Submission 1.0//EN'
'http://www.iso-ne.com/support/tech/dtd/sms/submit_schedules_1_3.dtd'>

<Submit_Schedules>


<Contract ID='20003' Category='FCM_LOAD_OBLIGATION' Seller='1' Buyer='2'>
   <Schedule>
     <Profile Interval ='6' MWAmount='75'/>
     <Profile Interval ='7' MWAmount='65'/>
     <Profile Interval ='8' MWAmount='50'/>
   </Schedule>
 </Contract>

</Submit_Schedules>
```

XML Contract Termination Upload File Example

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE Terminate_Contracts PUBLIC '-//ISO New England, Inc//DTD Contract Termination 1.3//EN'
'http://www.iso-ne.com/support/tech/dtd/sms/terminate_contracts_1_3.dtd'>

<Terminate_Contracts>

  <Contract ID="20001" Category="ENERGY_RT" Seller="1" Buyer="2">
    <TerminationDate>
       11/3/2002 16:00:00
    </TerminationDate>
  </Contract>



  <Contract ID="30098" Category="FR_TMNSR" Seller="1" Buyer="2">
    <TerminationDate>
       11/22/2006 1:00:00
    </TerminationDate>
  </Contract>

</Terminate_Contracts>
```

XML File Format Definitions

XML Contract Upload File Format Definitions – Submit_Contracts (W/WO Schedule)

XML Tag	Description	Format	Required
Contract Category	Will contain one of the following: ***ENERGY_DA*** – Internal Bilateral contract for Energy Day Ahead Market , ***ENERGY_RT*** – Internal Bilateral contract for Energy Real Time Market, ***REGULATION_RT*** – Internal Bilateral contract for Regulation Market, ***LOAD_RT*** – Internal Bilateral contract for Energy Real Time Load ***FR_TMNSR*** – Internal Bilateral contract for Ten-Minute Non-Spinning Reserve in the Locational Forward Reserve Market ***FR_TMOR*** – Internal Bilateral contract for Thirty-Minute Operating Reserve in the Locational Forward Reserve Market ***FCM_LOAD_OBLIGATION*** – Internal Bilateral contract for the Forward Capacity Market (FCM) ***FCM_SUPPLEMENTAL_AVAILABILITY*** – Supplemental Availability Bilateral contract for the Forward Capacity Market (FCM)	N/A	Yes
Seller	Contains the numeric identifier of the customer who is supplying market service through a Contract. For an Internal Contract it must be a Participant.	Maximum length is 9 characters.	Yes
Buyer	Contains the numeric identifier of the customer who is receiving market service through a Contract. It must be a Participant.	Maximum length is 9 characters.	Yes
Location	Contains the numeric identifier of the Contract Location Identifier (Network Node Id, or Load Zone Id, or Reserve Zone, or HUB Id, or Capacity Zone). If Contract category is REGULATION_RT, or FCM_SUPPLEMENTAL_AVAILABILITY then the "Location ID" must be BLANK.	Maximum length is 9 characters.	Yes
ConfirmationLevel	Contains Confirmation Level choice (contract only confirm, schedule profile confirm)	'C' - Contract confirm = Only the initial contract need be confirm. Any subsequent schedules entered are automatically confirmed. 'P' - Schedule Profile Confirm = All schedules entered as well as the initial contract must be confirmed.	Yes

XML Tag	Description	Format	Required
		Maximum length is 1 character.	
Reference	Contains an internal reference identifier for the Participant's use. Note: Do not use commas within the data contained in the field. For contract with no reference ID leave blank.	Maximum length is 25 characters and free form.	Yes
SubaccountID	Only applicable to contracts with a Subaccount granularity, contract categories: • ENERGY_DA • ENERGY_RT • LOAD_RT • FCM_LOAD_OBLIGATION Optional attribute for these contracts, containing the contract originator Subaccount ID, and defaulted to the contract originator's default Subaccount ID ("Default") if not supplied. The contract originator is the customer represented by the user submitting the upload in the Internal Bilateral Transactions User Interface, either the contract's buyer or the seller. Contracts with a Subaccount granularity have one Subaccount for the buyer and one Subaccount for the seller. The contract originator Subaccount ID must be the Subaccount ID of one of the contract originator's Subaccounts (which includes "Default"), and this Subaccount must have Active status for the period of the contract. The Subaccount will apply to settlements of all intervals during the period of the contract. Settlements applying a MW Amount for the contract to the contract originator's settlement will assign that entire MW Amount to this one Subaccount. The Internal Bilateral Transactions User Interface may be used to later change this Subaccount, or assign different Subaccounts for different months of a contract spanning multiple months. The other contract party customer (buyer or seller) is unaffected by the contract originator Subaccount ID, and may specify their Subaccount ID(s) in the Internal Bilateral Transactions User Interface after the contract has been uploaded.	Maximum length is 100 characters.	No
MLRFlag	Only applicable to ENERGY_DA and ENERGY_RT contracts. Optional attribute for ENERGY_DA and ENERGY_RT contracts and is defaulted to be Y if not supplied. If the contract's flag is Y, then the contract will be included in the calculation of Marginal Loss Revenue Load Obligation used in the	Maximum length is 1 character which is either "Y" or "N".	No

XML Tag	Description	Format	Required
	allocation of Marginal Loss Revenues. If the contract's flag is N, then the contract will be excluded from the calculation of Marginal Loss Revenue Load Obligation used in the allocation of the Marginal Loss Revenues. The contract's flag must be Y when the contract's Begin Date is prior to the Credit and Billing Enhancements Start Date 12/01/2010, or the upload will be rejected.		
Begin Date	Contains the starting date for which the contract will be effective (hour ending).	MM/DD/YYYY HH:MM:SS Length must be less or equal 19 characters. (daylight savings extra hour = 2*:00:00)	Yes
End Date	Contains the ending date of the contract (hour ending).	MM/DD/YYYY HH:MM:SS Length must be less or equal 19 characters. (daylight savings extra hour = 2*:00:00)	Yes
FixedMWAmount	Contains MW amount for the entire contract duration. This value will be applied to each hour of the contract. If FixedMWAmountPattern is specified, this value will be applied to all hours based on the selected pattern. On FCM_LOAD_OBLIGATION contracts (monthly market), this value will be applied to each month of the contract. If this field is not blank then the "ConfirmationLevel" must equal "C",	Total length cannot exceed 10 characters and it includes 3 decimal places.	No
FixedMWAmount Pattern	This field can contain a name of the pattern, according to which FixedMWAmount is applied to the contract. For FR_TMNSR and FR_TMOR contracts only the On-Peak 5x16 (weekdays) pattern is applicable. Not applicable for any FCM_LOAD_OBLIGATION contracts.	Can contain one of the following: On-Peak 5x16 On-Peak 2x16 Off-Peak 5x8 Off-Peak 7x8 Off-Peak 2x24 Off-Peak 5x8 + 2x24	No
Schedule Date	Contains the specific date for which the following contract MW information will be applied. Not applicable for any FCM_LOAD_OBLIGATION contracts.	Total length cannot exceed 10 characters and it includes 3 decimal places.	Yes
Profile Interval	Contains the ending hour corresponding to the MW amount below	Numeric from 1-24 (daylight-saving extra hour = 2*)	Yes
MW Amount	Contains the schedule MW amount	Total length cannot exceed 10 characters and it includes 3 decimal places.	Yes
AssetID	Asset Id associated with an contract: Export – numeric identifier of a Market System Generating Unit Import – alpha-numeric identifier of an external Asset	Import – Maximum length is 50 characters and free form Export – Maximum length is 9 characters.	Yes – for Exports Yes – for

XML Tag	Description	Format	Required
			Imports with Transaction Type = "U"
TransactionType	Contains the Transaction Type choice for contracts. Can be either "U" or "C" for imports. Can only be "U" for exports.	"U" - for Unit Transaction Type "C" - for Control Area Transaction Type (imports only)	Yes
EFORd	This field will contain the external Unit/Control Area EFORd value for imports.	Total length cannot exceed 7 characters and it includes 4 decimal places.	No – for Exports Yes – for Imports
Supplementing Resource ID	Numeric identifier of the Supplementing Resource ID associated with a FCM_SUPPLEMENTAL_AVAILABILITY contract	Maximum length is 9 characters.	Yes
Supplemented Resource ID	Numeric identifier of the Supplemented Resource ID associated with an FCM _SUPPLEMENTAL contract	Maximum length is 9 characters.	Yes

XML Schedule Profile Upload File Format Definitions – Submit_Schedules

XML Tag	Description	Format	Required
Contract ID	Numeric Identifier of the contract for which this scheduled is to entered. This Identifier was generated when the contract was entered into the Market System.	Maximum length is 9 characters.	Yes
Contract Category	Will contain one of the following: ENERGY_DA – Internal Bilateral contract for Energy Day Ahead Market , ENERGY_RT – Internal Bilateral contract for Energy Real Time Market, REGULATION_RT – Internal Bilateral contract for Regulation Market, LOAD_RT – Internal Bilateral contract for Energy Real Time Load FR_TMNSR – Internal Bilateral contract for Ten-Minute Non-Spinning Reserve in the Forward Reserve Market FR_TMOR – Internal Bilateral contract for Thirty-Minute Operating Reserve in the Forward Reserve Market FCM _LOAD_OBLIGATION – Internal Bilateral contract for FCM FCM _SUPPLEMENTAL_AVAILABILITY – Internal Bilateral contract for FCM	N/A	Yes
Seller	Contains the numeric identifier of the customer who is supplying market service through a Contract. For an Internal Contract it must be a Participant.	Maximum length is 9 characters.	Yes
Buyer	Contains the numeric identifier of the customer who is receiving market service through a Contract. For an Internal Contract it must be a Participant.	Maximum length is 9 characters.	Yes
Schedule Date	Contains the specific date for which the following contract MW information will be applied. Not applicable for FCM_LOAD_OBLIGATION contracts	MM/DD/YYYY	Yes
Profile Interval	Contains the ending hour corresponding to the MW amount below for an hourly market contract. For FCM_LOAD_OBLIGATION this contains the month corresponding to the MW below.	Hourly – Numeric from 1 – 24 (daylight-saving extra hour = 2*); Monthly – Numeric from 1-12	Yes
MW Amount	Contains the schedule MW amount	Total length cannot exceed 10 characters and it includes 3 decimal places.	Yes

XML Contract Termination Upload File Format Definitions – Terminate_Contracts

XML Tag	Description	Format	Required
Contract ID	Numeric Identifier of the contract to be terminated. This Identifier was generated when contract was entered into the Market System.	Maximum length is 9 characters.	Yes
Contract Category	Will contain one of the following: ENERGY_DA – Internal Bilateral contract for Energy Day Ahead Market , ENERGY_RT – Internal Bilateral contract for Energy Real Time Market, REGULATION_RT – Internal Bilateral contract for Regulation Market, LOAD_RT – Internal Bilateral contract for Energy Real Time Load FR_TMNSR – Internal Bilateral contract for Ten-Minute Non-Spinning Reserve in the Locational Forward Reserve Market FR_TMOR – Internal Bilateral contract for Thirty-Minute Operating Reserve in the Locational Forward Reserve Market FCM _LOAD_OBLIGATION – Internal Bilateral contract for FCM FCM _SUPPLEMENTAL_AVAILABILITY – Supplemental Availability Bilateral contract for FCM	N/A	Yes
Seller	Contains the numeric identifier of the customer supplying the Market Service for the contract that is to be terminated. For an Internal Contract it can be a Participant or Non-Participant.	Maximum length is 9 characters.	Yes
Buyer	Contains the numeric identifier of the customer receiving the Market Service for the contract that is to be terminated. For an Internal Contract it can be a Participant or Non-Participant.	Maximum length is 9 characters.	Yes
Termination Date	Contains the date on which the contract will be terminated. This date must fall within the start and stop dates of the contract. This hour is the first hour of contract inactivity.	MM/DD/YYYY HH:MM:SS (daylight savings extra hour = 2*:00:00)	Yes