

InSchedule – File Upload Definition

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I. Purpose

This document identifies the file upload process for the InSchedule application. It will discuss the functionality that will be provided in connection with file uploads as well as the required file formats.

II. InSchedule - Internal Schedules {all Users}

III. Functionality

The internal schedules functionality will allow the user to load new schedules, update existing pending schedules, and confirm pending schedules.

- 1. Insert New Schedule If there is not a pending schedule in existence for a given contract and date, then the schedule information is inserted directly into the database and the responsibility for confirmation is set to the party that did not perform the upload.
- 2. Update Existing Schedule If there is a pending schedule for a given contract and date, then the schedule information in the database is updated to reflect the newly uploaded information. The responsibility for confirmation is set to the party that did not perform the upload.
- 3. Confirm Schedule If there is a pending schedule for a given contract and date and all of the hour MWh combinations are the same between the pending schedule and the schedule uploaded by the confirming party, then the schedule is confirmed. A check will be made to determine if the responsibility for confirmation is set to the party that is performing the upload. If the responsibility for confirmation is not that of the uploading party then nothing is updated.
- 4. The above operations can be performed for a range of dates. In the upload file, user can specify a start date and a stop date. The same schedule will be applied to every single day from the start day to the stop day.
- 5. Contracts cannot be created, modified, etc. through file uploads.
- 6. File Format .TXT and .DAT files only.

Format Specification	Description	Example
Header	The header that indicates the current section is an energy	* INTSCH *
	schedule.	
Contract Identifier	Number identifier for the contract.	123456789
Start Date	Date on which the schedule starts. The date should be in the	07/09/1997
	mm/dd/yyyy format.	
Stop Date	Date on which the schedule stops. The date should be in the	07/09/1997
	mm/dd/yyyy format.	
Start Hour 1-Stop Hour 1/MW	Hour of the day. A hyphen must be placed between Start Hour	0-1 50
Value	and Stop Hour. Megawatt-hrs for the hours. Every Start Hour –	
	Stop Hour pair should be followed by a MWh (0.001 MWh	
	increments accepted).	
Start Hour 2-Stop Hour 2/MW		1-2 50
Value		
		9-10 50
		10-11 50
Start Hour n-Stop Hour n/MW		20-24 50
Value		

IV. Data Field Conversion

Upload Data Field	Data Type
Contract Identifier	NUMBER(9)
Start Date	DATE
Stop Date	DATE
Start Hour	NUMBER(4)
Stop Hour	NUMBER(4)
MWh	NUMBER(12,3)

Notes:

- 1. The upload file <u>must</u> start with a * INTSCH *.
- 2. 'White space', 'tab', 'new line' characters are used as the field separators instead of commas.
- 3. It is not necessary to enter each hour of the day. Those hours that are not entered will be defaulted to zero. This holds true for both new schedules and updates.
- 4. The Start Hour-Stop Hour combinations can represent a range of hours. That is 0-1 represents one hour which is 12 A.M. to 12:59 A.M., whereas 0-3 represents three hours which are 12 A.M. to 12:59 A.M., 1 A.M. to 1:59 A.M., and 2 A.M. to 2:59 A.M. See the section below for more examples.
- 5. When transitioning to Standard Time for Daylight Savings Time (i.e., 25 hours in one day), the MWh value for the extra hour should be indicated in a 24-25 Start Hour-Stop Hour combination. When transitioning to Daylight Savings Time, the MWh value in hour 2-3 will be ignored if entered.

Hour-Hour Combination	Hours Represented
0-1	12 A.M. to 12:59 A.M
5-10	5 A.M. to 5:59 A.M
	6 A.M. to 6:59 A.M
	7 A.M. to 7:59 A.M
	8 A.M. to 8:59 A.M
	9 A.M. to 9:59 A.M
20-24	8 P.M. to 8:59 P.M
	9 P.M. to 9:59 P.M
	10 P.M. to 10:59 P.M
	11 P.M. to 11:59 P.M

V. Start-Stop Examples

VI. Example with Multiple Schedules

Format Specification	Example
Header	* INTSCH *
Contract Identifier	987654321
Start Date	08/08/1997
Stop Date	08/08/1997
StartHour-StopHour MW	8-11 40
StartHour-StopHour MW	11-12 30
StartHour-StopHour MW	12-18 50
StartHour-StopHour MW	18-21 30
Header	* INTSCH *
Contract Identifier	876543219
Start Date	08/11/1997
Stop Date	08/11/1997
StartHour-StopHour MW	15-23 50

Notes:

In the above example, two sets of schedules will be uploaded to the server. The first schedule has Contract ID of "987654321", Start Date "08/08/1997", Stop Date "08/08/1997". For this day, 40 MWh's are needed from 8 A.M. to 8:59 A.M., 9 A.M. to 9:59 A.M. and 10 A.M. to 10:59 A.M., 30 MWh's are needed from 11 A.M. to 11:59 A.M., 50 MWh's are needed from 12 P.M. to 12:59 P.M., 13 P.M. to 13:59 P.M.,and from 17 P.M. to 17:59 P.M., etc.. The second schedule has Contract ID of "876543219", Start Date "08/11/1997". For this day, 50 MWh's are needed from 15 P.M. to 15:59 P.M., 16 P.M. to 16:59 P.M.,and from 22 P.M. to 22:59 P.M..

InSchedule - Schedule Reconciliation {only EDCs}

VII. Functionality

The schedule reconciliation functionality will allow the user to reconcile schedules for a contract. All energy reconciliation file uploads are inserts. If there is any existing reconciliation data for the contract on the date specified in the upload, the new data will overwrite the existing data.

Format Specification	Description	Example
Header	The header that indicates the current section is an energy	* ENGREC *
	schedule reconciliation.	
Contract Identifier	Number identifier for the contract.	123456789
Start Date	Date on which the schedule starts. The date should be in	07/09/1997
	the mm/dd/yyyy format.	
Start Hour 1-Stop Hour 1/KWh	Hour of the day. A hyphen must be placed between Start	0-1 1233
Value	Hour and Stop Hour. Kilowatt-hrs for the hours. Every	
	Start Hour – Stop Hour pair should be followed by a	
	KWh.	
Start Hour 2-Stop Hour 2/KWh		1-2 1234
Value		
		9-10 1500
		10-11 1543
Start Hour n-Stop Hour n/KWh		20-24 1345

VIII. File Format

Value		
End date indicator	Specified indicator that the end of reconciliation has been	-
	reached for the date.	

IX. Data Field Conversion

Upload Data Field	Data Type
Contract Identifier	NUMBER(9)
Start Date	DATE
Start Hour	NUMBER(4)
Stop Hour	NUMBER(4)
KWh	NUMBER(10)

Notes:

- 1. The upload file <u>must</u> start with * ENGREC *.
- 2. 'White space', 'tab', 'new line' characters are used as the field separators instead of commas.
- 3. It is not necessary to enter each hour of the day. Those hours that are not entered will be defaulted to zero. This holds true for both new energy reconciliation data and updates.
- 4. The end date indicator must always be a .
- 5. Negative KWh values are allowed and represent undersupplied customer load. Positive KWh values represent oversupplied load.

For example:

KWh Value	Negative Reconciliation	Positive Reconciliation
	(KWh)	(KWh)
Scheduled	20,000	10,000
Actual	25,124	8,800
Reconciled	-5,124	1,200

- 6. The Start Hour-Stop Hour combinations can represent a range of hours. That is 0-1 represents one hour which is 12 A.M. to 12:59 A.M., whereas 0-3 represents three hours which are 12 A.M. to 12:59 A.M., 1 A.M. to 1:59 A.M., and 2 A.M. to 2:59 A.M. See the section below for more examples.
- 7. When transitioning to Standard Time for Daylight Savings Time (i.e, 25 hours in one day), the KWh value for the extra hour should be indicated in a 24-25 Start Hour-Stop Hour combination. When transitioning to Daylight Savings Time, the KWh value in hour 2-3 will be ignored if entered.
- 8. Energy reconciliation will occur on a 2-month lag. For example, all reconciliation data for January must be submitted by the last day in March for inclusion in the March bill.

X. Start-Stop Examples

Hour-Hour Combination	Hours Represented
0-1	12 A.M. to 12:59 A.M
5-10	5 A.M. to 5:59 A.M
	6 A.M. to 6:59 A.M
	7 A.M. to 7:59 A.M
	8 A.M. to 8:59 A.M
	9 A.M. to 9:59 A.M
20-24	8 P.M. to 8:59 P.M

9 P.M. to 9:59 P.M 10 P.M. to 10:59 P.M
11 P.M. to 11:59 P.M

XI.

Example with Multiple Schedules

Format Specification	Example
Header	* ENGREC *
Contract Identifier	987654321
Start Date	08/08/1997
StartHour-StopHour MWh	8-11 400
StartHour-StopHour MWh	11-12 218
StartHour-StopHour MWh	12-18 927
StartHour-StopHour MWh	18-21 408
End Date Indicator	-
Start Date	08/10/1997
StartHour-StopHour MWh	8-11 500
StartHour-StopHour MWh	11-12 408
End Date Indicator	-
Header	* ENGREC *
Contract Identifier	876543219
Start Date	08/11/1997
StartHour-StopHour MWh	15-23 309
End Date Indicator	-

Notes:

In the above example, two sets of schedule reconciliations will be uploaded to the server. The first reconciliation has Contract ID of "987654321", Start Date "08/08/1997". For this day, 400 KWh's are reconciled from 8 A.M. to 8:59 A.M., 9 A.M. to 9:59 A.M. and 10 A.M. to 10:59 A.M., 218 KWhs are reconciled from 11 A.M. to 11:59 A.M., 927 KWh's are reconciled from 12 P.M. to 12:59 P.M., 13 P.M. to 13:59 P.M... and from 17 P.M. to 17:59 P.M., etc.. Under the same contract number, new date. For this day, 500 KWh's are reconciled from 11 A. M. to 11:59 A. M. o 9:59 A. M. and 10 A. M. to 10:59 A. M., 408 KWh's are reconciled from 11 A. M. to 11:59 A. M. o 9:59 A. M. and 10 A. M. to 10:59 A. M., 408 KWh's are reconciled from 11 A. M. to 11:59 A. M. The second reconciliation has Contract ID of "876543219", Start Date "08/11/1997". For this day, 309 KWh's of power are reconciled from 15 P.M. to 15:59 P.M., 16 P.M. to 16:59 P.M. and from 22 P.M. to 22:59 P.M.



XII. Heading 1

XIII. Heading 2

A. Heading 3

Body text