

Redlined NHHDA URS for CP1408 ‘Excessively Large EAC/AA Control Points’.

The CP proposes changes to Supplier Volume Allocation Non Half Hourly Data Aggregation (NHHDA) User Requirements Specification (URS) section 6.3.1.

We have redlined these changes against Version 14.1.

6.3 Elementary Process Descriptions

6.3.1 Process 1 - Receive EAC/AA Data

Brief Description

This process receives, validates and stores Estimated Annual Consumptions (EACs) in kWhs and Annualised Advances (AAs) for each Metering System sent from a Non-Half Hourly Data Collector.

Detail Processing Description

Receipt of a file from the Data Collector

The process receives a file containing a set of instructions from a Non-Half Hourly Data Collector. The full file handling process is described in detail in Data Interfaces (reference 6).

The file will be validated to ensure:

- physical integrity;
- that it is for the Data Aggregator;
- that it is from a valid Non-Half Hourly Data Collector;
- that the file only contains instructions which are valid for the source (e.g. a Data Collector can only send a “EAC/AA and MS Details” Instruction);
- that the file sequence number is the next instruction file sequence number from the source. If this sequence number is higher than the next sequence number, the file is not processed and is left in the ‘Receipt’ area;
- that the instructions in the file are in instruction sequence number order and the first sequence number in the file follows on from the last instruction received from the source of the file;

If the file is valid, the instructions are written to the instruction data store D2/1 with a status of ‘Unprocessed’, otherwise the file is marked as ‘Erroneous’ and is subject to the Instruction Processing Problem Resolution as described in Data Interfaces (reference 6).

Data Content

Each instruction should include the details for a Metering System and its associated details as described below:

- the significant date for the instruction;
- the Data Collector’s view of ‘sets of AA details for the Metering System’ which overlap or start on or after the significant date and are relevant to the Data Aggregator;
- the Data Collector’s view of ‘sets of EAC details for the Metering System’ which overlap or start on or after the significant date and are relevant to the Data Aggregator;
- the Data Collector’s view of ‘Metering System’s Registrations’ which overlap or start on or after the significant date and are relevant to the Data Aggregator;
- the Data Collector’s view of the ‘Metering System’s relationships with Profile Classes and Standard Settlement Configurations’ which overlap or start on or after the significant date and are relevant to the Data Aggregator;
- the Data Collector’s view of the ‘Metering System’s relationships with Measurement Classes’ which overlap or start on or after the significant date and are relevant to the Data Aggregator;

- the Data Collector's view of the 'Metering System's Energisation Statuses' which overlap or start on or after the significant date and are relevant to the Data Aggregator;
- the Data Collector's view of the 'Metering System's relationships with GSP Groups' which overlap or start on or after the significant date and are relevant to the Data Aggregator.

Validation

The instruction is validated to ensure that:

- applying the instruction will not result in the Metering System being without (in the NHH Data Collector's view) a Registration, Profile Classes, Standard Settlement Configuration, Measurement Class, Energisation Status or GSP Group at any time during any of the NHH Data Collector's view of its Meter Advance Consumptions or Estimated Annual Advances;
- there is not an existing Meter Advance Consumption which begins prior to the significant date and ends on or after the significant date which is not also contained in the instruction;
- that none of the following change during a Meter Advance Period:
 - Standard Settlement Configuration;
 - Energisation Status;
 - Registration;
 - Measurement Class.
- for the sets of AA details for the Metering System:
 - that the Effective From Settlement Date is less than or equal to the Effective To Settlement Date;
 - that the set of AAs are for the set of Time Pattern Regimes associated with this Data Collector's view of the Metering System's Standard Settlement Configuration;
 - that the meter advance periods for the sets of AA details do not overlap;
 - that they all overlap or start on or after the significant date;
 - that if one has a start date before the significant date, the rest must have start dates after the significant date;
 - that none of the set of AAs have more integer digits than a consumption threshold value, configurable through NHHDA software;
- for the sets of EAC details for the Metering System:
 - that the set of EACs are for the set of Time Pattern Regimes associated with this Data Collector's view of the Metering System's Standard Settlement Configuration;
 - that the start dates for the sets of EAC details are unique;
 - that they all overlap or start on or after the significant date;
 - that if one has a start date before the significant date, the rest must have start dates after the significant date;
 - that none of the set of EACs have more integer digits than a consumption threshold value, configurable through NHHDA software;
- for the Data Collector's view of 'Metering System's Registrations' in the instruction:
 - that they all contain valid Supplier Ids;
 - that they all overlap or start on or after the significant date;

- that if one has a start date before the significant date, the rest must have start dates after the significant date;
 - that all the start dates are unique;
 - that the Metering System will not be left without a Registration for any Settlement Day within the Data Collector’s view of the Metering System’s Meter Advance Consumptions and Estimated Annual Consumptions if the instruction is applied;
- for the Data Collector’s view of ‘Metering System’s relationships with Profile Classes and Standard Settlement Configurations’ in the instruction:
 - that they are all for valid Profile Classes;
 - that they are all for valid Standard Settlement Configurations;
 - that they are all for a valid combination of Profile Class & Standard Settlement Configuration;
 - that they are all for a valid combination of Valid Settlement Configuration Profile Class and GSP Group for:
 - the duration of all meter advance periods in the instruction, and,
 - the first day of any EAC in the instruction;
 - that they all overlap or start on or after the significant date;
 - that if one has a start date before the significant date, the rest must have start dates after the significant date;
 - that all the start dates are unique;
 - that the Metering System will not be left without a Profile Class or Standard Settlement Configuration for any Settlement Day within the Data Collector’s view of the Metering System’s Meter Advance Consumptions and Estimated Annual Consumptions if the instruction is applied;
- for the Data Collector’s view of ‘Metering System’s relationships with Measurement Classes’ in the instruction:
 - that they are all for valid Measurement Classes;
 - that they all overlap or start on or after the significant date;
 - that if one has a start date before the significant date, the rest must have start dates after the significant date;
 - that all the start dates are unique;
 - that the Metering System will not be left without a Measurement Class for any Settlement Day within the Data Collector’s view of the Metering System’s Meter Advance Consumptions and Estimated Annual Consumptions if the instruction is applied;
- for the Data Collector’s view of ‘Metering System’s Energisation Statuses’ in the instruction:
 - that the Energisation Status are ‘D’ or ‘E’;
 - that they all overlap or start on or after the significant date;
 - that if one has a start date before the significant date, the rest must have start dates after the significant date;
 - that all the start dates are unique;
 - that the Metering System will not be left without an Energisation Status for any Settlement Day within the Data Collector’s view of the Metering System’s Meter Advance Consumptions and Estimated Annual Consumptions if the instruction is applied;

- for the Data Collector's view of 'Metering System's relationships with GSP Groups' which overlap or start on or after the significant date and overlap with a Data Aggregator Appointment for the Data Aggregator.
 - that they are all for valid GSP Groups;
 - that they all overlap or start on or after the significant date;
 - that if one has a start date before the significant date, the rest must have start dates after the significant date;
 - that all the start dates are unique;
 - that the Metering System will not be left without a GSP Group for any Settlement Day within the Data Collector's view of the Metering System's Meter Advance Consumptions and Estimated Annual Consumptions if the instruction is applied;
 - that the Metering System has a valid combination of Valid Settlement Configuration Profile Class and GSP Group for:
 - the duration of all meter advance periods in the instruction, and,
 - the first day of any EAC in the instruction;

If any of the validation fails, the instruction is marked as 'Failed' and is subject to the Instruction Processing Problem Resolution as described in Data Interfaces (reference 6).