

## S2i1159 - Suggested Solution

Amend both 'Agreed Procedure AP504 - Non-Half Hourly Data Collection' and 'Service Line SL120 for Non Half Hourly Data Collection' as indicated (by either bold or strike out) below:

### A. AP504 Proposed Amendments

#### 4.2 Validate Meter Data.

The validation requirements described below are the minimum requirements that the NHHDC shall carry out **for each Settlement Register** :

1. Check that where data is collected at site the meter serial number for the MSID is the same as the serial number provided by the NHHMO for that MSID.
2. Check that date of meter reading is after the date of the last valid meter reading.
3. Check for zero consumption, **where the zero consumption on the meter register is not necessitated by the Time Pattern Regime** and if so:
  - 3.1 check for previous zero consumptions;
  - 3.2 check for zero MD
  - 3.3 check Site Visits Reportsif zero explained **by historical consumption, Site Visit Reports or Time Pattern Regime** then valid, otherwise invalid
4. Check for negative consumption and if so:
  - 4.1 check for meter rollover
  - 4.2 check if **the** previous meter reading is a deemed ~~meter~~ reading and that the reading prior to the deemed reading is an advance on the previous actual meter reading is positive, and that the current meter reading **advance creates a positive consumption with respect to the last actual meter reading, making allowance for any meter rollover (4.1 above),**  
  
if so then reading valid, otherwise invalid
5. Any slave register advance is checked against the total advance if the sum of the slave registers equals the total advance then reading is valid, otherwise invalid. This validation requirement

does not apply to 'key-type' prepayment meters where only the slave register readings are transferred to the vending equipment.

6. Check consumption does not exceed twice the expected advance (using the EAC times, the Profile Coefficient, or some other equivalent method.) **Note that where Profile Coefficients are not yet available they may be substituted by using the coefficients from the same period last year.** If consumption does exceed twice the expected advance, this meter reading will fail validation **except where it is caused by a seasonal register Time pattern Regime.**
7. **(New paragraph break inserted here)** However A facility to review all meter readings which fail validation will be available. Based on this review, the NHHDC may choose to set it to valid and the status may be altered, where good reason exists. If not exceeded then the meter reading is valid.
8. Compare actual and expected meter readings and identify missing and overdue meter readings, in particular meters that have not been read by Final Reconciliation.
9. Check that the number of MD re-sets is not greater than **one since the last time that the MD was reset by a person authorised by the Non Half Hourly Data Collector.** Where the number of re-sets is **unexplained the meter reading(s) recording energy remain valid unless invalid for a separate reason.**
10. For multi-register meters check that all registers have the same date of reading.
11. Check number of digits within each register against meter technical details.
12. For remote readings the NHHDC must inform the NHHMO of any error flags received from the meter and record the reasons for accepting any error flagged data into Settlements.
13. The validation must retain the original value, the initial validation flag and the reason for failure where the flag is invalid.

**B. SL120 Proposed Amendments**

Insert new clause 1.5.6.9 to section 1.5.6 " Data Validation" as follows:

Where the validation of the number of MD re-sets set out in AP504 fails, inform the PES Distribution Business and the Associated Supplier of the problem and seek to rectify the situation using whatever functionality is available in the meter to recover the missing data. The Non Half Hourly Data Collector shall retain sufficient history of incidents to enable the Associated Supplier or the PES Distribution Business to investigate an ongoing problem.

Revise existing clause 1.5.6.1 in section 1.5.6 " Data Validation" as follows:

The Non Half Hourly Data Collector shall validate ~~all~~ **each Settlement Register** ~~meter readings~~ it collects or receives, in accordance with the validation rules contained in Agreed Procedure AP 504.