Change Proposal – F40/01

CP No: 1081

Version No: 1.0

Title: EAC/AA Changes to Allow Manual Initiation of a Deemed Meter Advance Calculation

Description of Problem/Issue

The BSC Auditor's Statement of Significant Matters for the year ended 30 September 2003 identified that many Non Half Hourly Data Collectors calculate Deemed Meter Advances (DMAs) manually, without using their certified EAC/AA calculation software. Potential issues with these manually-calculated DMA values include:

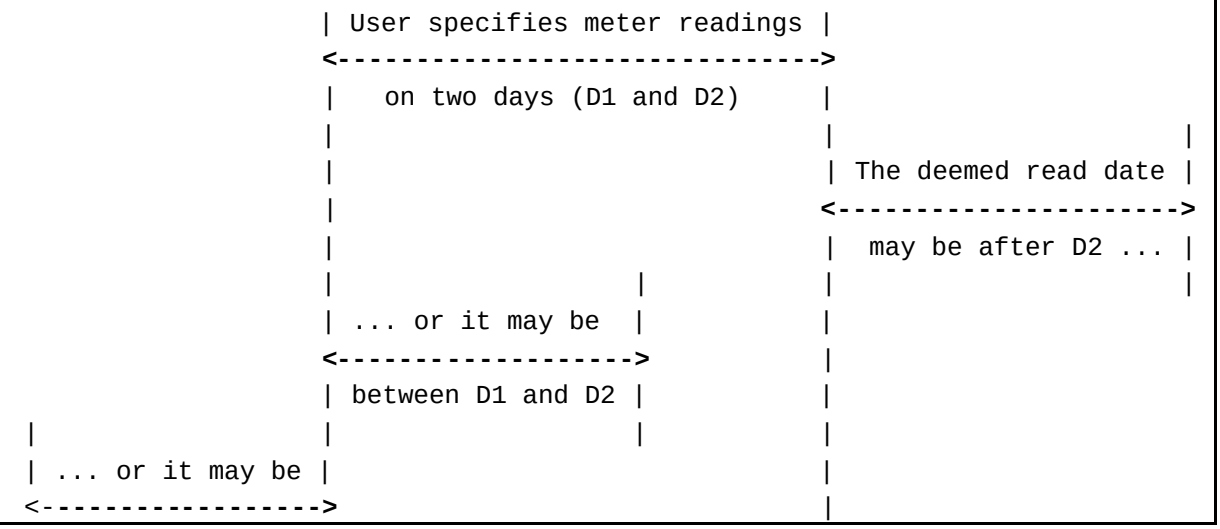
- There may not be an adequate audit trail, making it impossible to confirm whether the calculation has been correctly performed; and
- The calculation may not be performed in accordance with the DMA equations in Annex S-2 of the BSC.

From discussion with members of the Software Technical Advisory Group (STAG), it appears that manually-calculated DMA values are used in circumstances where a DMA is required, but the Data Collector's system does not support the automatic initiation of the calculation.

Proposed Solution(s) *(mandatory by originator)*

The EAC/AA software should be enhanced to allow the user to initiate a DMA calculation manually (by typing details into a form). This new facility will supplement the current mechanism (in which a DMA calculation is initiated by NHHDC software, rather than directly by the user), and is intended for use in circumstances where the BSC requires a DMA, but the NHHDC system is not able to initiate the calculation.

The new facility will be designed to calculate a deemed meter reading from a pair of existing meter readings. The date of the required deemed meter reading may be before, during or after the specified Meter Advance Period:



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|   before D1      |                                |
|                  |                                |
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A new form will be added to the EAC/AA Calculator. In order to trigger the calculation, the user will be required to enter the following data:

1. The 13-digit Metering System Id.
2. The Standard Settlement Configuration (SSC). Only a single value is allowed (because the SSC must remain unchanged over the entire period of a DMA calculation).
3. The GSP Group Id. Only a single value is allowed (i.e. there is no requirement to support a Metering System moving from one GSP Group to another midway through the period of the DMA calculation).
4. The dates (D_1 and D_2) of the meter readings.
5. The meter reading (for each TPR of the SSC) on dates D_1 and D_2.
6. The required date (D_3) of the deemed meter readings.
7. The Metering System's Profile Class Id at the start of the calculation (i.e. the earliest of D1, D2 and D3), and (if there has been any change of Profile Class over the period of the calculation), the new Profile Class Id(s) and associated Effective From Settlement Date(s).
8. The number of register digits (in order to allow meter roll-over calculations).
9. Details of the reason for the calculation (for the audit trail).

Once this data has been entered and validated, the system will then calculate deemed meter reads for the required date D_3. This process has a number of steps:

1. Convert the meter readings at D_1 and D_2 into a Meter Advance for each register (taking into account any register rollovers that may have occurred between the two dates).
2. Convert the Meter Advance for each register into an Annualised Advance.
3. Use the Annualised Advances to calculate a Deemed Meter Advance for each register.
4. Add the Deemed Meter Advance to the meter readings to calculate a deemed meter reading for each register (again taking account of meter rollover where necessary).

The output of the process will be:

- A deemed meter reading for each register (displayed on the user's screen); and
- A detailed audit report, documenting details of the input data, calculations and results.

More detail on all of these requirements is contained in Attachment 1.

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Justification for Change *(mandatory by originator)*

The issue is high risk. Based on the Auditor's Statement of Significant Matters, and anecdotal reports of NHHDC manually calculating Deemed Meter Advances in non-compliant ways (e.g. without using Daily Profile Coefficients), it appears likely that significant volumes of non-compliant Deemed Meter Advances are entering settlement.

Providing a usable and BSC-compliant method for calculating deemed meter readings will therefore lead to a material improvement in the quality of settlement data. The proposed changes are primarily aimed at facilitating compliance with the BSC, rather than increasing efficiency. Nonetheless, an automated ad hoc deeming tool would potentially replace more cumbersome and labour-intensive workarounds, resulting in increased efficiency for NHHDC.

Configurable Items Potentially Affected by Proposed Solution(s)

Impact on the EAC/AA software and associated configurable items:

- User Requirement Specification
- Function Definition
- Conceptual Process Model
- Physical Design
- Operations Guide
- Installation Guide

Impact on Core Industry Documents

Related Changes and/or Projects

Requested Implementation Date

Next available release

Reason:

Agreed Release/Implementation Date *(mandatory by BSCCo)*

June '05

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