

Market Change Request

Number		Title	Priority
MCR	0163	Increase in tolerance levels for NQH Meter Reading validation	<i>High</i>

Date	Version	Reason For Change
13/06/2008	1.0	Market Change Request to document a system change that has already been made to the NQH tolerance levels.

CHANGE REQUEST:			
Name of Requesting Organisation		Retail Market Design Service	
Contact name		Colm Gaffney	
Date Change Request Raised		6th February 2007	Originating Discussion Request
			DR 0128

Detail of Discussion Request
<p>This Discussion Request has been raised to discuss increasing the tolerance levels for NQH meter reading validation</p> <p>Detail: Currently, the NQH Data Collection team manually handle several hundred meter readings a day that have been outsourced, because the indicated register consumptions are outside the established thresholds for plausibility. The tolerance levels are applied to all NQH consumptions (calculated taking account of the Register Factor (Multiplier), where applicable). Readings where this consumption is outside the stated tolerances, are deemed implausible, and require manual intervention. In the business process for handling these outsourced, readings within a wider band are accepted and those outside this band are rejected. This change to the market design proposes to include these de facto tolerance bands in the automated validation process. This means replacing the current automated tolerance bands with these proposed limits. This will reduce the number of implausible meter readings outsourced on a daily basis, thereby speeding up the billing and issuing of these readings to the market, via market messages. Note the consumption applies to actual readings and not estimates.</p> <p>Proposed Solution: It is proposed that the tolerance levels be increased marginally to allow certain NQH meter readings to be automatically plausible, thereby reducing the number of implausible readings which require manual intervention. The table below indicates the 'Current Tolerance Levels' and the new 'Proposed Tolerance Levels'. The first two columns indicate the expected consumption (after the Multiplier has been applied).</p>

Detail of Discussion Request

Table 1. Register Consumption Tolerance Bands for reading plausibility

Current Tolerance Levels				
Expected Consumption on Register (kWh/kVArh)	Absolute Tolerance (kWh/kVArh)	Relative % Tolerance	Resulting consumption range for plausibility (kWh/kVArh)	
0	199	500		Expected Consumption + 500
200	499		200	600 to 1500
500	799		150	1250 to 2000
> or = 800			100	1600 to ∞
Proposed Tolerance Levels				
Expected Consumption on Register (kWh/kVArh)	Absolute Tolerance (kWh/kVArh)	Relative % Tolerance	Resulting consumption range for plausibility (kWh/kVArh)	
0	199	1000		Expected Consumption +1000
200	499		250	700 to 1750
500	799		200	1500 to 2400
> or = 800			100	1600 to ∞

Example 1. Band 1. If the expected consumption were 177 kWh (in the 0 to 199 kWh range), and the calculated consumption were 680 kWh, the expected consumption would be added to the absolute value i.e. $177 + 500 = 677$. The reading which gave rise to this value would therefore be outsourced as an implausible meter reading. It is now proposed that this maximum allowed consumption figure be increased from 500 to 1000.

Example 2. The range of readings to be released for **Band 2** (Current and Proposed, as indicated by the arrow) can be calculated as follows:

Current Lower Range (kWh/kVArh)

$$200 + (200\% * 200) = 200 + (2 * 200) = 200 + 400 = 600$$

New Proposed Lower Range (kWh/kVArh)

$$200 + (250\% * 200) = 200 + (2.5 * 200) = 200 + 500 = 700$$

Example 3. The range of readings to be released for **Band 3** (Current and Proposed, as indicated by the arrow) can be calculated as follows:

Current Upper Range (kWh/kVArh)

$$500 + (150\% * 500) = 500 + (1.5 * 500) = 500 + 750 = 1250$$

New Proposed Upper Range (kWh/VArh)

$$500 + (200\% * 500) = 500 + (2 * 500) = 500 + 1000 = 1500$$

No change to Band 4.

Reason for Discussion Request

This change would reduce the number of implausible NQH meter readings

Detail of Discussion Request	
Market Design Documents impacted by Request	
Change to supplementary information that has been baselined at 5.1 and will be published in 6.1	
Date of IGG where discussed	8 th March 2007
Change Request xref (if applicable)	N/A

PART 2 MARKET ASSURANCE:				
Applicability				
ESB Networks	Suppliers	TSO	SSA	Generators
Scope of Test				
Connectivity	DTT	MSA	IPT	Other
			No. Of Scenarios	

PART 3 RESPONSES AND MODIFICATIONS:
Collation of Impact Assessment (from Form C)
<i>Not Applicable</i>
Modifications Included
<i>Not Applicable</i>
Reason for Modifications
<i>Not Applicable</i>

PART 4 ASSESSMENT & RECOMMENDATION:
Part 4(a) ASSESSMENT
Summary of Impact Assessment
Recommendation on Implementation Plan

Part 4(b) RECOMMENDATION			
ACCEPTANCE	REJECTION	NO RECOMMENDATION	COMMENT
Reason for Recommendation			

Date of Recommendation