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Project Nexus Workgroup Meter Read Validation

20th January 2015

Background

- The meter read validation principles were developed under 'The Settlement' BRD and formed part of Modification 0432.
- Concerns have been raised that the read validation tolerances may not be appropriate, particularly for Smaller Supply Points
- Analysis has been carried out by both British Gas and e-on on the tolerances proposed which has highlighted some issues with the current proposed tolerances
- As a result of this analysis Xoserve have carried out further analysis on both NDM and DM Supply Meter Points
- Agreement gained at the December PN UNC on the bandings and tolerances, which is shown on the following slides

Impact of Changing the Validation

- The validations were developed at PN UNC using a % of the AQ / SOQ to validate the read
- Recommendation that for Meter Points with an AQ of less than 20,000 kWh the validation should be based on kWh not % of the AQ / SOQ
- This will require a change request as this is a change in the design
 - changing the % values and the AQ bandings does not impact design as these were always a parameterised value
- UKLink Programme are carrying out an impact assessment on the impact this change will have to design & testing
 - Xoserve should be in a position to provide the outcome of the impact assessment at the January meeting – if the change can be delivered for 1st October

Tolerances being Developed for DM Supply Meter Points (Classes 1 & 2)

Tolerances for a daily read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
0	15,000	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
15,001	30,000	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
30,001	73,200	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
73,201	732,000	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
732,001	2,196,000	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
2,196,001	29,300,000	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
29,300,001	58,600,000	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ
58,600,001	and above	0% - X% of SOQ	X% - X% of SOQ	=> X% of SOQ



Tolerances being Developed for NDM Supply Meter Points (Classes 3 & 4)

Tolerances for a periodic read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
0	15,000	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
15,001	30,000	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
30,001	73,200	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
73,201	732,000	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
732,001	2,196,000	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
2,196,001	29,300,000	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
29,300,001	58,600,000	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days
58,600,001	and above	0% - X% of AQ/365 x no. of days	X% - X% of AQ/365 x no. of days	=>X% of AQ/365 x no. of days



Tolerances Agreed at PN UNC for DM Supply Meter Points (Classes 1 & 2)

Tolerances for a daily read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
1	20,000	0 – 20,000 kWh	N/A	=> 20,001 kWh
20,001	73,200	0% - 300% of SOQ	301% - 699% of SOQ	=> 700% of SOQ
73,201	732,000	0% - 250% of SOQ	251% - 549% of SOQ	=> 550% of SOQ
732,001	2,196,000	0% - 200% of SOQ	201% - 499% of SOQ	=> 500% of SOQ
2,196,001	29,300,000	0% - 150% of SOQ	151% - 449% of SOQ	=> 450% of SOQ
29,300,001	58,600,000	0% - 100% of SOQ	101% - 399% of SOQ	=> 400% of SOQ
58,600,001	and above	0% - 100% of SOQ	101% - 399% of SOQ	=> 350% of SOQ

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Tolerances Agreed at PN UNC for NDM Supply Meter Points (Classes 3 & 4)

Tolerances for a periodic read received following an actual read

Lower AQ band (kWh)	Upper AQ band (kWh)	Tolerances where read will be accepted	Tolerances where a Read Accepted if submitted with an Override Flag (Inner Tolerance)	'Market Breaker' tolerance where Read Rejected (Outer Tolerance)
1	20,000	0 – 20,000 kWh	N/A	=> 20,001 kWh
20,001	73,200	0% - 300% of AQ	301% - 699% of AQ	=> 700% of AQ
73,201	732,000	0% - 250% of AQ	251% - 549% of AQ	=> 550% of AQ
732,001	2,196,000	0% - 200% of AQ	201% - 499% of AQ	=> 500% of AQ
2,196,001	29,300,000	0% - 150% of AQ	151% - 449% of AQ	=> 450% of AQ
29,300,001	58,600,000	0% - 100% of AQ	101% - 399% of AQ	=> 400% of AQ
58,600,001	and above	0% - 100% of AQ	101% - 399% of AQ	=> 350% of AQ

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Next Steps

- Review the tolerances at the January 2015 meeting
- Update tolerances where required
- Approve tolerances
- Update UNC Validation Rules for February 2015 meeting for review and submit for approval