

# Project Nexus

## Options for Meter Reading Validation – Information/Analysis Request

See also xoserve presentation at AMR 16 Workgroup –  
“AMR 16 – Read Validation Options”

# Background

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- For future AMR sites which provide daily reads to the Transporter, the Workgroup is considering the following type of tolerance check prior to read submission:
  - “if consumption is greater than  $x$  times D-7 consumption”
  - “if consumption is less than  $y$  times D-7 consumption”
  - “then investigate prior to submission”
- Suggested values were  $x = 2$  and  $y = 0.5$ , i.e. fail tolerance if more than twice D-7 or less than half D-7
- Assuming that D-7 calculation is used for estimates, then ultimately D-7 will always be based on an actual read, albeit 1, 2 or more weeks ago

# Question 1

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- What values of  $x$  and  $y$  are appropriate?
- What levels would be likely to cause a site which had experienced a meter, converter or AMR failure to trigger further investigation?
- Your review of real life examples and the level of natural variation would be helpful.
- Should the applicable tolerances vary between larger, process loads and smaller more weather-sensitive loads?

# Alternative Proposal

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- If Reconciliation could be provisionally calculated at time of read capture/submission, we could use the formula:
  - Reconciliation Energy/AQ for the Reconciliation period =  $y$  %
- Presentation (“AMR 16 – Read Validation Options”) suggested a sliding scale of tolerances for  $y$  from +/- 50% for AQ Band 1 (up to 73,199 kWh) to +/- 10% for AQ Band 9 (AQ over 58.6m kWh)

## Question 2

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- Objective: to find a suitable set of tolerances which maximise detection of erroneous charges and minimise risk of intercepting correct charges.
- At what level should these tolerance be set for each AQ Band?
- A review of sites with normal activity and those with a history of an equipment failure may help you identify suitable values which will work for the majority of sites in an AQ Band.

# Next Steps

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- The next meeting of the Project Nexus AMR Workgroup will take place on February 2nd 2011
- We would like to conclude discussions on tolerances at that meeting
- Suggestions before or at the meeting would assist with discussions
  
- For more information please contact:
  - [Michele.Downes@xoserve.com](mailto:Michele.Downes@xoserve.com) or
  - [Fiona.Cottam@xoserve.com](mailto:Fiona.Cottam@xoserve.com)