



DESC TWG

Post Nexus Algorithm Performance Initial Proposals

16th September 2015

Post Nexus Algorithm Performance: Background

- At the DESC meeting on 8th July 2015 discussions took place regarding NDM algorithm performance post Nexus implementation
- For clarification, the purpose of NDM Algorithm Performance is to assess the accuracy of the estimated allocations derived by the formula
- A new action was created (DE0701) requesting DESC members to consider future or additional strands on Algorithm Performance
- DESC decided to pass this action onto the Technical Workgroup for consideration
- The following slides set out an initial proposal of the future strands and the views of DESC TWG members are invited

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Post Nexus Algorithm Performance: Considerations

- Post Nexus measures should consider the following:

- The new (option E) demand formula

$$SPD_t = ((AQ/365) \times ALP_t \times (1 + (DAF_t \times WCF_t)))$$

where:

$$DAF = WVCE_t / SNDE_t$$

$$WCF_t = CWV_t - SNCWV_t$$

Further detail on the above parameters can be found in the 'NDM Demand Estimation Methodology' document

- Avoid any overlap with the work of the 'AUGE' or the 'Performance Assurance Workgroup'

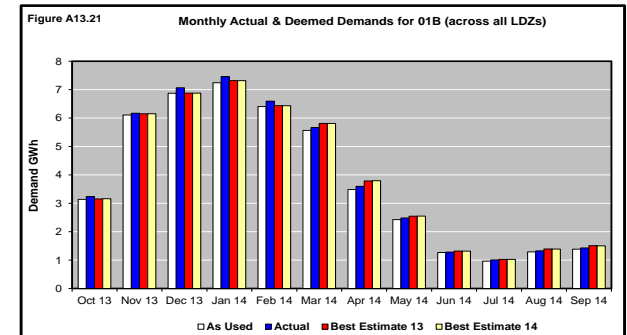
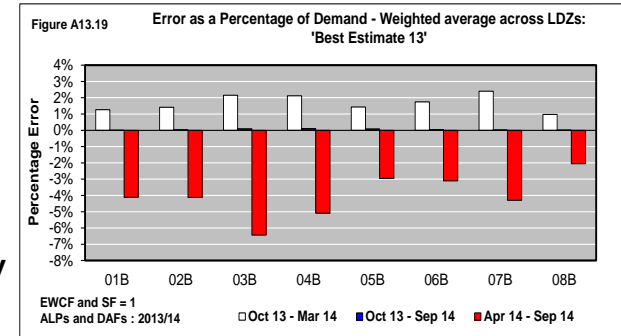
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Post Nexus Algorithm Performance: Proposed Strand 1 - NDM Sample Analysis

- What:
 - NDM Sample Analysis
- How:
 - By comparing actual daily demands for supply points in the NDM sample with estimates of their daily demands (as per the NDM profiling formula) across a range of EUCs (as per current BEGY analysis)
- When:
 - Upon completion of the gas year



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Post Nexus Algorithm Performance: Proposed Strand 2 – UG Levels

- What:
 - Unidentified Gas Levels
- How:
 - Monitor UG as a % of each LDZ total allocation at D+5 closeout (could be achieved by measuring the absolute value)
- When:
 - Could be monitored frequently throughout the current gas year to provide a live assessment

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Post Nexus Algorithm Performance: Proposed Strand 3 – Reconciliation Analysis

- What:
 - Reconciliation Analysis
- How:
 - Monitor total Reconciliation levels by EUC (class 3 & 4 sites only)
- When:
 - Upon completion of the gas year (rolling 12 month assessment)

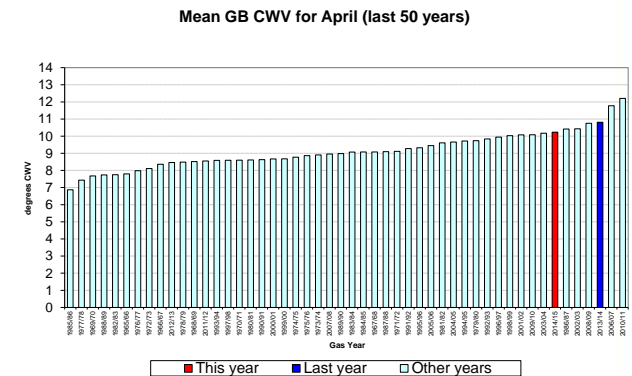
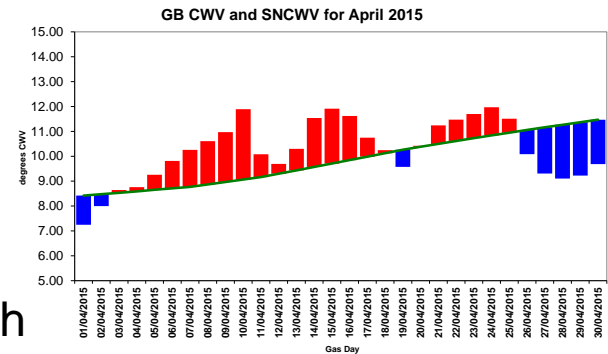
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Post Nexus Algorithm Performance: Proposed Strand 4 – SNCWV Analysis

- What:
 - SNCWV Analysis
- How:
 - Comparison of CWV against SNCWV for each LDZ (could include daily and ‘several year average’ comparisons)
- When:
 - Daily / weekly assessment reported upon completion of the gas year



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Post Nexus Algorithm Performance: Next steps

- Thoughts from TWG members welcome
 - Are members happy with the proposed strands of 'post Nexus' Algorithm Performance?
 - Are there any other areas or methods which could be considered?

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