

# UNC Demand Estimation Sub-committee Technical Workgroup Minutes

Monday 28 April 2014

via teleconference

## Attendees

Helen Cuin (Chair)	(HC)	Joint Office
Lorna Dupont (Secretary)	(LD)	Joint Office
Colin Thomson	(CT)	Scotia Gas Networks
Fiona Cottam	(FC)	Xoserve
James Hanks	(JH)	EDF Energy
Joseph Lloyd	(JL)	Xoserve
Mandeep Pangli	(MPa)	Xoserve
Mo Rezvani	(MR)	SSE
Mark Perry	(MP)	Xoserve
Penny Rowland	(PR)	E.ON UK
Zoe Ireland	(ZI)	British Gas

Copies of papers are available at: [www.gasgovernance.co.uk/DESC/280414](http://www.gasgovernance.co.uk/DESC/280414)

## 1. Introduction

The meeting was declared quorate.

### 1.1. Apologies for absence

None received.

### 1.2. Note of Alternates

FC (Xoserve) for R Malin (National Grid Distribution).

## 2. Status Review

### 2.1. Minutes

The minutes from the previous Technical Workgroup (04 April 2014) were approved.

### 2.2. Actions

**DTW1102:** b) Xoserve to provide a view on how long it would take to fill the gaps in historical weather data, and by when.

**Update:** MP confirmed completion of this action was dependent on which methodology is signed off by the TWG. Once that was approved Xoserve can progress what needs to be done. See 4, below. **Carried Forward**

**DTW0201:** E.ON (SB) to provide a copy of the E.ON overnight temperature behavioural pattern data to Xoserve for their consideration.

**Update:** PR reported that E.ON was currently running regressions on the data before doing any modelling. **Carried Forward**

**DTW0301:** E.ON to test the accuracy of the gap interpolation methodology and provide an explanation/document of how it is to be applied.

**Update:** A document was provided and reviewed; see 4, below. **Complete.**

### 3. Spring Analysis - Phase 1: Data Validation and Aggregations

MP had provided a [EUC Modelling 2014/15 – Data Validations and Aggregations](#) presentation and number of excel spreadsheets to support the presentation. It was noted that the validation spreadsheets had been provided to DESC TWG representatives via email for information purposes and were not for publication.

MP confirmed the key objectives for the Workgroup meeting. The required outcome was for the TWG to reach agreement with regard to sample sizes, agreed aggregations and WAR Band limits; this was needed prior to Xoserve commencing the next phase of modelling.

The agreed “Spring Approach” was to use a full 13 month analysis to cover data sets March to March which ensures a complete Easter holiday period is included for 2013/14.

MP gave a brief summary of the validation data, and directed attention to spreadsheet *TW\_A\_SAMPLE\_VAL\_SUMM\_V1\_280414.xls*, which had provided an early view of validation results to inform the TWG’s understanding.

#### 3.1 Background and Summary of Validated Sample Data

MP outlined the background to and purpose of the NDM modelling and the role of the DESC and the DESC TWG. The 2014 Modelling Workplan had been agreed at the February meeting and the timetable was displayed.

The objectives of this meeting were reiterated. TWG agreement to sample sizes, agreed aggregations and WAR Band Limits was needed prior to commencing the next phase of Modelling.

The key aspects of the EUC demand modelling basis for Spring 2014 analysis were restated, and a summary of the validated data (for all EUCs) was presented.

#### 3.2 Small NDM – Proposed Aggregation and WAR Band Limits

MP presented the analysis.

##### *Consumption Bands*

Following ad hoc analysis to consider the continued appropriateness of existing EUC definitions, it had been agreed by DESC and TWG that there was to be no change to EUC definitions associated with Small NDM Bands for the Gas Year 2014/15.

There were no sample size issues, apart from Band 3.

Attention was directed to spreadsheet *TW\_B\_SAMPLE\_POP\_SMALL\_V1\_280414 tab B.3*.

Xoserve’s proposal to run individual LDZ analysis (other than usual NW/WN combination) and also to run WS/SW in parallel was approved by the TWG.

##### *WAR Bands*

Attention was directed to spreadsheet *TW\_B\_SAMPLE\_POP\_SMALL\_V1\_280414 tab B.5*, and the *WAR Band Decision Spreadsheet*.

It was proposed to merge Band 3 and 4 data for WAR Band Analysis, and to model all LDZs separately except NW and WN, which would be combined, and WS and SW, which would be combined. PR suggested moving the threshold from 0.57 to 0.56 – this would bring NO LDZ just up to 30 – with the percentages kept reasonably well in line. This suggestion was briefly discussed and then accepted by the TWG, and Xoserve agreed to make the necessary adjustments to accommodate this.

#### 3.3 Large NDM – Proposed Aggregation and WAR Band Limits

MP presented the analysis.

##### *Consumption Bands*

DESC has agreed as part of the ad hoc analysis of EUC Definitions that the Bands 14,650MWh to 29,300MWh (Band 7) and 29,300MWh to 58,600MWh (Band 8) are to be merged for modelling purposes in the Spring 2014 analysis only. The UK Link system will still retain Bands 7 and 8.

Attention was directed to spreadsheet *TW\_C\_SAMPLE\_POP\_LARGE\_V1\_280414 tab C.3* and then to *tab C.5* for the proposals.

To allow sufficient sample analysis aggregation of sample data was required for some Bands. It was proposed that analysis for Bands 05 and 06 should be carried out at individual LDZ level; that Band 09 should be carried out at a National level; and that analysis for Bands 07 and 08 will consider 2 runs in parallel. Xoserve's proposal to run individual LDZ analysis (NW/WN, SE/SO and WS/SW combined) and in parallel individual LDZs (WS/SW, EA/NT, SE/SO and NO/NW/WN combined) was approved by the TWG.

MP confirmed that the results of both models could be presented for review at the May TWG meeting.

#### *WAR Bands*

Attention was directed to spreadsheet *TW\_C\_SAMPLE\_POP\_LARGE\_V1\_280414 tab C.6, C7 and C8*. JL explained the WAR band ratios proposed and, when asked, other participants confirmed that they had not found any better WAR band ratios. .

Xoserve's proposals for WAR Bands 5, 6, 7 and 8 were all approved by the TWG.

### **3.4 Next Steps**

MP summarised the decisions reached, including the acceptance of PR's suggestion of moving the threshold from 0.57 to 0.56. The approved proposals will now be taken forward in the modelling and the results will be reported back to the May TWG.

It is expected that TWG will take decisions on the model options at the May meeting.

## **4. Gap Filling Methodology for WSSM Dataset**

MP reminded TWG that a methodology was required to be approved at this meeting, and that E.ON (in response to Action DTW0301) had provided more information and examples of how its methodology would work.

PR provided an [update to Action DTW0301](#) and explained the methodology that had been developed. It captured shapes/general trends in the data but did not predict spikes. It was believed it should be fairly easy to apply. PR indicated that the code could be provided to Xoserve on request. PR referred to the filling of large gaps and suggested that, once the data is derived, sense checks be performed when the averages are produced, and that any 'oddities' are investigated and understood.

The TWG then gave its approval for Xoserve to proceed with the E.ON developed methodology, although FC pointed out that DESC will have to sign-off the resultant datasets prior to use in any industry processes, such as CWV optimisation.

This agreement will now enable Xoserve to work towards providing a response to Action DTW1102.

## **5. Any Other Business**

### **5.1 Wind Speed Data (Heathrow)**

JH enquired if any response had been received from the Met Office. FC reported that this had been covered at the last Stakeholder Group meeting and the Met Office had confirmed that the data should be ready in the next week, following which Xoserve will

sense check and then publish on the secure area of its website; a note will be circulated to inform of availability.

## 6. Diary Planning

Meetings will take place as follows:

### DESC and DESC Technical Workgroup Meetings 2014

Time / Date	Venue	Meeting	Programme
10:30 Wednesday 21 May 2014	31 Homer Road, Solihull B91 3LT	<b>DESC TWG</b>	Review modelling results and approve commencement of model smoothing stage
09:30 Wednesday 11 June 2014	Teleconference	<b>DESC</b>	Review Climate Change Data Sets
10:30 Wednesday 25 June 2014	31 Homer Road, Solihull B91 3LT /Teleconference	<b>DESC TWG DESC</b>	Review responses to draft NDM proposals and agree key messages for DESC Approve Climate Change Data Sets
10:30 Wednesday 09 July 2014	31 Homer Road, Solihull B91 3LT	<b>DESC</b>	Review and approval of 2014/15 NDM Algorithms
09:30 Wednesday 30 July 2014	Teleconference	<b>DESC</b>	Review representations (if any) and consider response
10:30 Wednesday 12 November 2014	Energy Networks Association (ENA), 6 <sup>th</sup> Floor, Dean Bradley House, 52 Horseferry Road, London SW1P 2AF	<b>DESC</b>	Evaluation of Algorithm Performance: Strand 1 – SF and WCF

### Action Table: Demand Estimation Sub-committee – Technical Workgroup

Action Ref	Meeting Date(s)	Minute Ref	Action	Owner	Status Update
<b>DTW1102</b>	27/11/13	3.1	a) Xoserve to provide a workplan with timelines to include an investigation	Xoserve (FC/JL)	<b>Complete</b>
<b>Revised</b>	15/01/14		b) Xoserve to provide a view on how long it would take to fill the gaps in historical weather data, and by when.	Xoserve (FC/JL)	<b>Carried forward</b>
<b>DTW0201</b>	12/02/14	3.2	To provide a copy of the E.ON overnight temperature behavioural pattern data to Xoserve for their consideration.	E.ON UK (SB)	<b>Carried forward</b>

<b>Action Ref</b>	<b>Meeting Date(s)</b>	<b>Minute Ref</b>	<b>Action</b>	<b>Owner</b>	<b>Status Update</b>
<b>DTW0301</b>	25/03/14	2.2	E.ON to test the accuracy of the gap interpolation methodology and provide an explanation/document of how it is to be applied.	E.ON UK (SB)	<b>Closed</b>
<b>DTW0302</b>	25/03/14	3.0	<i>Autumn 2014 Composite Weather Variable (CWV) Review - Proposed Approach</i> – Review document and provide final comments to Xoserve by 31 March 2014.	ALL	<b>Closed</b>