

Demand Estimation Sub-Committee Minutes
Wednesday 05 September 2018
Via Teleconference

Attendees

Chris Shanley (Chair)	(CS)	Joint Office	
Kully Jones (Secretary)	(KJ)	Joint Office	
Chris Warner	(CW)	Cadent Gas	Voting Member
Dean Pearson	(DP)	NGN	Voting Member (Alternate for Joanna Ferguson)
Fiona Cottam	(FC)	Xoserve	Non-Voting
Fiona Speak	(FS)	RWE npower	Voting Member
Greg Francis	(GF)	WWU	Voting Member (Alternate for Smitha Coughlan)
Jason Blackmore	(JB)	British Gas	Voting Member
Joseph Lloyd	(JL)	Xoserve	Non-Voting
Mandeep Pangli	(MPa)	Xoserve	Non-Voting
Mark Jones	(MJ)	SSE	Voting Member
Nick Pollard	(NP)	NGN	Non-Voting
Sallyann Blackett	(SBI)	E.ON	Voting Member
Simon Geddes	(SG)	National Grid NTS	Voting Member

Apologies

Dave Mitchell	(DM)	SGN	Voting Member
Joanna Ferguson	(JF)	NGN	Voting Member
Louise Hellyer	(LH)	Total	Non-Voting
Smitha Coughlan	(SC)	WWU	Voting Member

**via teleconference*

Copies of papers are available at: <https://www.gasgovernance.co.uk/desc/050918>

1. Introduction and Status Review**1.1. Apologies for Absence**

Please refer to the above table.

1.2. Note of Alternates

Dean Pearson for Joanna Ferguson;
 Greg Francis for Smitha Coughlan.

2. Filton Weather Station

Chris Shanley (CS) explained that this is an additional meeting set up to discuss the closure of Filton Weather Station and to agree a substitute weather station.

Mandeep Pangli (MPa) provided a presentation for discussion at the meeting, which can be accessed on the meeting page.

She reminded the Committee that the Met Office report published in January 2018 (provided to Xoserve during August '18) indicated that Filton weather station may be at risk of closure and that confirmation of closure in late September was advised to DESC on 24 July 2018.

She explained to Committee Members that the Weather Station Substitution Methodology (WSSM) document is used in these circumstances and indicates that the replacement station should aim to be as close a representative of the closed station as possible, considering the distance between the two stations, the difference in terrain elevation and terrain shape at the two sites as well as geographical surroundings at the sites.

The two sites analysed by Xoserve as proposed suitable replacements, are Yeovilton and St Athan. She confirmed that historical data was readily available for both sites (up to the Year 2012) as they were included in both the WSSM and Climate Change Methodology (CCM).

MPa then outlined the objective of the meeting which was to review the analysis and confirm DESC's recommendation for a substitute weather station. MPa then briefly summarised the assumptions and approach taken (slides 5-7).

Analysis was provided as follows:

- Distance between the two stations and corresponding analysis (slides 8 - 10)
- Bias calculations with respect to the station being replaced and supporting analysis (slides 11 - 16)
- Filton vs Yeovilton temperature results (slides 17 -18)
- Filton vs St Athan temperature results (slides 19 – 20)
- Filton vs Yeovilton wind speed results (slides 21-22)
- Filton vs St Athan wind speed results (slides 23 -24)

MPa also thanked Jason Blackmore (JB) for providing data to support the comparison analysis of weather data which included 2 hourly temperature and 4 hourly speed data for the period 01 January 2016 to 31 December 2017.

In relation, to the bias analysis she explained that a positive value indicates that the substitute station is warmer than the target station. Overall Yeovilton is colder than St Athan except for in the afternoons.

St Athan weather station is colder than Filton during the afternoon and evenings, with the largest difference being in the afternoons.

SBI pointed out that it would be preferable not to have the differences in the afternoon and evening as that drives demand.

DP asked if the seasonal variation is a problem? JL explained that this variation is due to geographical location with St Athan being close to the coast/estuary whereas Yeovilton is entirely land-based.

MPa summarised to conclude that both stations Yeovilton and St Athan are acceptable substitutes for Filton. She reiterated that the wind speed bias adjustments have been calculated for both stations indicating that Yeovilton would only have a bias applied at night and St Athan would have a bias applied to all 4 time slots.

Statistically St Athan is the best substitute. She reminded the Committee that ultimately the aim is to select the station which best mimics Filton until the time of re-optimising the parameters. This means there is an option to choose St Athan now and then Yeovilton when the CWV optimisation is done next year with a go live in 2020.

She also informed the Committee that the Met Office had also provided a recommendation suggesting that Lyneham is regarded as being too risky due to an ongoing risk of the building being shut down which provides the power to that site. There are also some risks associated with St Athan which is moving from a Ministry of Defence site to a civil aviation site. Yeovilton is, therefore, considered the safest option.

DESC Committee Members were asked to comment on the best substitute.

SBI indicated a longer-term preference for Yeovilton as it was a more stable site but she would be comfortable with either weather station being used.

GF indicated a preference to use Yeovilton especially because of the risk of the St Athan site ownership change. He indicated that St Athan is also used for Wales, so this approach would offer some diversity.

FS reiterated that St Athan is statistically the best substitute based on the analysis (slide 10). MPa confirmed that St Athan comes out the best as Class 3 for temperature and 5 for windspeed but indicated that a Class score less than 6 is acceptable. JL pointed out that the R^2 values are similar for St Athan (98%) and Yeovilton (97%) so both weather stations could be used.

DESC Committee Members agreed to use Yeovilton weather station as a substitute for Filton weather station for the interim period and the longer-term following its closure at the end of September 2018.

MPa then thanked the Committee for their time and clarified that the next steps were to engage with Wales & West Utilities and Meteogroup to make the necessary arrangements

Xoserve will also publish the bias adjustments information as soon as possible.

3. Review of outstanding actions

DESC 0801: Xoserve to analyse the relationship between the data for Yeovilton and Filton weather stations provided by the Members. The analysis to include 2 hourly temperature and 4 hourly speed data for up to 2 years.

Update: This was discussed under agenda item 2.0 and closed. **Closed**

4. Any Other Business

None.

5. Diary Planning

Further details of planned meetings are available at: <https://www.gasgovernance.co.uk/events-calendar/month>

Workgroup meetings will take place as follows:

Time / Date	Venue	Workgroup Programme
10:00 Monday 08 October 2018	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.
10:00 Monday	Radcliffe House, Blenheim Court,	Standard agenda items.

10 December 2018	Warwick Road, Solihull B91 2AA	
10:00 Monday 11 February 2019	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.
10:00 Tuesday 24 April 2019	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.
10:00 Wednesday 15 May 2019	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.
10:00 Monday 08 July 2019	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.
10:00 Monday 22 July 2019	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.
10:00 Monday 07 October 2019	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.
10:00 Monday 09 December 2019	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	Standard agenda items.

Action Table (as at 05 September 2018)

Action Ref	Meeting Date	Minute Ref	Action	Owner	Status Update
DESC 0201	13/02/18	2.0	Xoserve (MA) to provide reconciliation analysis for the SSPs and LSP's (any additional months) for the next meeting.	Xoserve (MA)	Carried Forward (deferred until 08 Oct 2018)
DESC 0701	24/07/18	1.4	Joint Office to add a new standard agenda item: DESC related modification/change updates (which are currently 0644, 0652, 0654, 0659 and XRN4665 Creation of New End User Categories)	Joint Office (HB)	Pending (deferred until 08 Oct 2018)

DESC 0702	24/07/18	4.0	Xoserve to a) contact the Met Office to see what their back-up Weather Station is with the Filton Weather Station closing and b) if the secondary station to Filton is Almondsbury, check if weather data is available.	Xoserve (FC/MP)	Pending (deferred until 08 Oct 2018)
DESC 0703	24/07/18	4.0	New Action 0703: All to provide feedback on whether any of the current information is no longer required and what Users would like to see considered in the system going forward. Please send suggestions to the box account: Xoserve.demand.estimation@xoserve.com .	Xoserve (MP)	Pending (deferred until 08 Oct 2018)
DESC 0801	09/08/18	3.1	Xoserve to analyse the relationship between the data for Yeovilton and Filton weather stations. The analysis to include 2hourly temperature and 4 hourly speed data for up to 2 years.	Xoserve (MP)	Closed