

# xserve



respect > commitment > teamwork

## TWG Action TW0402

23<sup>rd</sup> May 2012



## TWG Action TW0402 - 1 of 4

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- TWG Action: “Xoserve to calculate average values for summer consumption for the Small NDM Sample for the 2011/12 data compared to the 2010/11 data to determine whether the change to the read spike tolerance was appropriate and report back to the Group.”

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- Action raised following discussions at April TWG on validation criteria used for 'Summer Spike ratio' for Small NDM dataloggers
- 'Summer' period for Spring 2012 analysis was over a shorter period i.e. 1<sup>st</sup> April to 30<sup>th</sup> September as opposed to 1<sup>st</sup> March to 30<sup>th</sup> September used in previous years analysis
- Summer Spike ratio has been 10:1 in previous years – i.e. any site which has daily consumptions that is greater than 10 \* the average consumption over the summer period is excluded
- During the first validation run it was noticed that there was significantly fewer sites passing validation than in previous years and Summer Spike ratio failures had risen significantly

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- Due to change in 'Summer' period this year Xoserve felt that criteria should be amended to reflect the 'dropping off' of March in the calculations
- For Small NDM AMR sites (mainly Domestic) a criteria of 15:1 is used but it was felt this was too high for Small NDM dataloggers (mainly I&C) as the weather sensitivities are different
- Xoserve therefore selected a criteria of 13:1 as this represented an approximate 'mid point' between the two values
- Analysis has since been done on the average summer consumptions to check if this was a reasonable number to select

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	Spring Analysis – Small NDM Loggers	
	2012	2011
Summer Period	1 <sup>st</sup> Apr '11 – 30 <sup>th</sup> Sep '11	1 <sup>st</sup> Mar'10 – 30 <sup>th</sup> Sep'10
Average daily cons per Site	1,831 KWh <sup>(B)</sup>	2,483 KWh <sup>(A)</sup>
Threshold based on 10:1	18,310 KWh	24,830 KWh
Possible Ratio for 2012	13.56	

- Above table represents the averages pre the Summer Spike ratio test
- The possible ratio for 2012 based on the averages appear to support the value chosen by Xoserve (13 or 14 could have been used)
- This has been calculated as follows:  $10 * A/B$
- Xoserve accept that in future such decisions should be reached by the TWG (as long as quick responses are received)
- Note: The figures for 2012 and 2011 above represent around 50% of the sample data – this is because the validation is done in 2 batches because of the size of the data to be processed and only the latest batch is available to interrogate