

**DSC Change Proposal**

**Change Reference Number: XRN4772**

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Xoserve to fill out all of the information in this colour

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| **Section A1: General Details** | | |
| **Change Title** | Composite Weather Variable (CWV) Improvements | |
| **Date Raised** | 25 September 2018 | |
| **Sponsor Organisation** | E.ON | |
| **Sponsor Name** | Kirsty Dudley / Sallyann Blackett | |
| **Sponsor Contact Details** | Kirsty.Dudley@eonenergy.com | |
| **Xoserve Contact Name** | Emma Smith | |
| **Xoserve Contact Details** | emma.smith@xoserve.com | |
| **Change Status** | Proposal / With DSG / **Out for review** / Voting / Approved or Rejected | |
| **Section A2: Impacted Parties** | | |
| **Customer Class(es)** | Shipper  National Grid Transmission  Distribution Network Operator  IGT | |
| **[Section A3: Proposer Requirements / Final (redlined) Change](C:\\Users\\Rebecca.perkins\\AppData\\Local\\Microsoft\\Windows\\Temporary Internet Files\\Content.Outlook\\EXD06YFG\\Change_Proposal_Template v2.0.docx" \o "WHAT – What is the required change? WHY – Why is the change needed? WHEN – Detail when the solution should be started/implemented.  )** | | |
| Modification 0659 is working to add into the UNC two new data items to improve the accuracy of the Composite Weather Variable (CWV) – this XRN is seeking to create the mechanism in which the solar radiation and precipitation values will be loaded into UK Link, the approach taken will be done by the CDSP prior to the data being loaded into Gemini so there will be no Gemini requirements as part of this change.  In the UNC Section H the CDSP already has the requirement to make changes as recommended by DESC and therefore we have raised this XRN to run in parallel with modification 0659. This means that all the preparatory work can be completed and the changes can align to the timings required for the 5 year review which the Demand Estimation Sub Committee (DESC) undertakes.  This XRN is all about the receipt and loading of the new data items, the way in which the data will be incorporated into the methodology will be devised and approved by DESC during their methodology review. As there needs to be pre-work to facilitate the DESC review the changes are to be done in two phases (currently in 1 XRN).  Phase 1: 2019 – Preparation to facilitate the 2020 methodology  The CDSP will work in an off-line capacity with DESC before finalising the changes for implementation. The CDSP envisage this to be offline and not to impact core systems but the full ‘capture’ review is required. A data request will go directly to DESC to assist with this.  Phase 2: 2020 – the implementation of 2020 methodology changes  Following the 2019 preparatory work – the changes instructed by DESC will be implemented (full scope TBC) but it is envisaged this will require changes to the SAP-ISU system and due to switching and other changes in 2020, that early development and delivery visibility is vital to ensure that it is delivered to the DESC timetable.  The data is to be captured as the following using existing agreements (as per 0659):   * Solar Radiation in j/cm2 for each weather station * Precipitation in mm for each weather station   Based on the data being provided by the current mechanism for wind speed and temperature (via the GDNs) the expectation is the data could be received on the same flow or a different extract whatever is easiest to facilitate, this change is not seeking to determine how the data is obtained as this discussion is between the CDSP and their current providers (GDNs through their weather contract).  The high-level requirements (overall – the phase to be determined by DESC and the CDSP) to assist with ‘Capture’:   * If the preference is for the data to be received on the same data flow as current data then the file format will change and changes to reflect the new format will be required. * If the choice is a second file then the system will need to be able to load and store the associated data items. * Ensure that data is loaded and stored in a central location so should DESC make changes in the future the data is accessible without unnecessary delays * Current data items are set at 2 or 4 hour intervals should the new data items be the same? To allow this change to proceed in tandem with the DESC analysis on the parameters required for CWV calculations without restricting the analysis it is recommended this data is hourly. * Use the new data items as additives rather than amending the charging calculation * Ideally obtain historic data back to 1/10/12 for each variable and weather station   Due to the DESC and CDSP timings it is recommended that data for Phase 1 is received no later than April 2019, this is why we have chosen the February major release of 2019, if the CDSP is able to relax the timings but still deliver to DESC the information for the 2020 methodology review then a later date could be suggested at ChMC.  It is recommended this is first developed by DESC rather than DSG due to the technical nature of the requirements and this XRN will evolve with at DESCs request. | | |
| **Proposed Release (Feb/Jun/Nov/Minor)** | **Phase 1: No later than February 2019**  **Phase 2: No later than October 2020** | |
| **Proposed Consultation Period** | 10 Working Days  20 Working Days  30 Working days  Other: | |
| **[Section A4: Benefits and Justification](C:\\Users\\Rebecca.perkins\\AppData\\Local\\Microsoft\\Windows\\Temporary Internet Files\\Content.Outlook\\EXD06YFG\\Change_Proposal_Template v2.0.docx" \o "Benefit Description: What, if any, are the intangible and tangible benefits of the change?Benefit Realisation:When are the benefits of the change likely to be realised? Benefit Dependencies:Detail any dependencies that are outside the scope.)** | | |
| **Benefit Description**  *What, if any, are the tangible benefits of introducing this change?*  *What, if any, are the intangible benefits of introducing this change?* | | The inclusion of the new data items into the DESC methodology with increase the accuracy and then reduce volatility. |
| **Benefit Realisation**  *When are the benefits of the change likely to be realised?* | | Mainly within the 2020 methodology review by DESC but could be recognised sooner depending on system changes applied once the data items have been received and loaded |
| **Benefit Dependencies**  *Please detail any dependencies that would be outside the scope of the change, this could be reliance on another delivery, reliance on some other event that the projects has not got direct control of.* | | There might be overlap with the recommendations of the UIG Task Force but as part of this XRN there is not expected to be any Gemini changes so the changes will be within UK Link. |
| **Section A5: Final Delivery Sub-Group (DSG) Recommendations** | | |
| *Until a final decision is achieved, please refer to section C of the form.* | | |
| **Final DSG Recommendation** | Approve / Reject / Defer | |
| **DSG Recommended Release** | Release X: Feb/Jun/Nov XX or Adhoc DD/MM/YYYY | |
| **Section A6: Funding** | | |
| **Funding Classes** | Shipper 50%  National Grid Transmission 0%  Distribution Network Operator 50%  IGT 0% | |
| **Service Line(s)** | DSC Service Area 15: Demand Estimation | |
| **ROM or funding details** |  | |
| **Funding Comments** | Costs are shown in the HLSO in section D.  There will be an additional estimated cost of around £15,000 - £20,000 per annum for the Weather Service Provider to provide weather data files with hourly observations which will be covered under DSC Service Area 15. | |
| **Section A7: ChMC Recommendation** | | |
| **Change Status** | Approve – Issue to DSG  Defer – Issue for review  Reject  Approved, this change will proceed to DSG; this was the verdict from the ChMC meeting on 10th October. | |
| **Industry Consultation** | 10 Working Days  20 Working Days  30 Working days  Other: | |
| **Expected date of receipt for responses (to Xoserve)** | 01/03/2019 | |
| **DSC Consultation** | | |
| **Issued** | Yes  No | |
| **Date Issued** | 15/02/2019 | |
| **Comms Ref(s)** | 2234.6 – RJ - ES | |
| **Number of Responses** | 6 (approvals) | |
| **Section A8: DSC Voting Outcome** | | |
| **Solution Voting** | Shipper Approve / Reject / NA / Abstain  National Grid Transmission Approve / Reject / NA / Abstain  Distribution Network Operator Approve / Reject / NA / Abstain  IGT Approve / Reject / NA / Abstain | |
| **Meeting Date** | XX/XX/XXXX | |
| **Release Date** | Release X: Feb / Jun / Nov XX or Adhoc DD/MM/YYYY or NA | |
| **Overall Outcome** | Approved for Release X / Rejected | |

**Please send the completed forms to:** [**box.xoserve.portfoliooffice@xoserve.com**](mailto:box.xoserve.portfoliooffice@xoserve.com)

**Section C: DSC Change Proposal: DSG Discussion**

**(To be removed if no DSG Discussion is required; Xoserve to collate where DSG discussions occur)**

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| **Section C1: Delivery Sub-Group (DSG) Recommendations** | |
| **DSG Date** | **15/10/2018** |
| **DSG Summary** | |
| The description of the change, and the change prioritisation was presented to DSG (slide 62). David Addison (DA) explained that the CWV is currently derived from two data items: temperature and wind speed. The purpose of this change is to add two more data items that calculate the CWV; these include precipitation and solar gain.  Regarding this change, it is important to consider how the data for these new data items will be acquired, and then analyse their effect on the CWV. Secondly, it is also important to consider how to make the changes within Xoserve’s SAP ISU system to obtain the new weather files from the weather forecast provider.  The perceived delivery effort of the change is 100 plus days. The system changes associated with this XRN is required by June 2020. DA stated that the first stage will involve analysis.  David Hipwell (DH) asked if this change could have any impact, or any association, with UIG. DA and SH stated no at first, but agreed to take it away as an action. SH stated that it would affect gas nominations and allocations, but not the AQ. LW stated that this is in scope for UIG investigation. | |
| **Capture Document / Requirements** | N/A |
| **DSG Recommendation** | N/A |
| **DSG Recommended Release** | N/A |

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| **Section C2: Delivery Sub-Group (DSG) Recommendations** | |
| **DSG Date** | **04/02/2019** |
| **DSG Summary** | |
| Megan Troth (MT) presented the results of the Solution Option Impact Assessment, for the above change, to DSG. MT started by providing a summary of the change: according to UNC Modification 0659, the requirement is to get the solar radiation and precipitation values considered as a weather variable in order to improve the accuracy of the Composite Weather Variables (CWV). At this time forecast and actual temperature and wind speed are considered by the CWV calculation.  MT informed DSG of the only Solution Option: amend the existing means that data is loaded to UK Link systems to 1 are used in the CWV calculation process.  MT summarised the impacted systems and the associated assumptions, which can be found on slide 32.  MT’s presentation indicated Shippers as the only impacted parties, but assured DSG that there would be direct impact on Shippers as the impacted file formats in question are CDSP to WSP (Weather Service Provider) flows.  MT also stated that this change is expected to be included in a major release; the exact release for implementation has not been decided yet.  DSG provided no comments. | |
| **Capture Document / Requirements** | N/A |
| **DSG Recommendation** | N/A |
| **DSG Recommended Release** | N/A |

**Section D: DSC Change Proposal High Level Solution Options**

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| **Section D1: Solution Options** | |
| **High Level summary options** | |
| **Solution Option 1:**    The above Solution Option Impact Assessment was presented at DSG on 4th February. There is a requirement to get Solar Radiation and Precipitation values added as a weather variable to improve the accuracy of the CWV calculation. This is also expected to create improvements to the accuracy of the NDM allocation/nomination in Gemini which will benefit the Gas Balancing regime.  Even though we have identified this change as Shipper impacting, this is indirect as the CWV calculation will be changed to improve accuracy; however this requires no change from a Shipper system perspective. Any file format changes will be between the CDSP and the Weather Service Provider to account for the additional variables.  We have only presented one Solution Option for this change as this was originally in line with the MOD (0659), however due to the fact that this change is now delivering all requirements, the MOD has now been withdrawn as it is no longer required.  We are aiming for this change to be implemented as part of a Major Release, potentially June 2020 Release.  We are asking parties for their view on the proposed solution option, and for confirmation that this change appropriately fits into June 2020 Release. | |
| **Implementation date for this solution option** | June 2020 Release (TBC) |
| **Xoserve preferred option; including rationale** | Option 1 |
| **DSG preferred solution option; including rationale** | Option 1 |
| **Consultation close out date** | 1st March 2019 |

**Section E: DSC Change Proposal: Industry Response Solution Options Review**

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| **User Name** | Lorna Lewin | |
| **User Contact Details** | [lolew@orsted.co.uk](mailto:lolew@orsted.co.uk) 0207 451 1974 | |
| **Section E1: Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc.** | | |
| We support the only option presented | | |
| **Implementation date for this option** | | Approve |
| **Xoserve preferred solution option** | | Approve |
| **DSG preferred solution option** | | Approve |
| **Publication of consultation response** | | Publish |
| **Section E1: Xoserve’ s Response to Organisations Comments** | | Thank you for your comments. |

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| **User Name** | **Kirsty Dudley** | |
| **User Contact Details** | [Kirsty.Dudley@eonenergy.com](mailto:Kirsty.Dudley@eonenergy.com) | |
| **Section E2: Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc.** | | |
| We support the delivery of this change, and the funding proposal.  We have noted a couple of comments from the document:  **“**SH stated that it would affect gas nominations and allocations, but not the AQ***”***  We are not sure that is true as these items will also impact the seasonal normal values – and therefore the weather correction that will go into the AQ calculation. Can this be reviewed and confirmation be provided?  MT’s presentation indicated Shippers as the only impacted parties, but assured DSG that there would be direct impact on Shippers as the impacted file formats in question are CDSP to WSP (Weather Service Provider) flows.  We believe the CWV will remain a single value per day, so from a shipper perspective there is no change. So, should this have read no direct impact? Can this be reviewed and confirmation be provided?  We believe this XRN matches the main UIG task force findings and will make a material improvement to allocation and UIG levels and therefore we recommend approval.  We support implementation which ensures the 2020 methodology sees the benefit, we note June 2020 is currently quoted and we support this only if it works with the overall 2020 methodology. | | |
| **Implementation date for this option** | | Approve |
| **Xoserve preferred solution option** | | Approve |
| **DSG preferred solution option** | | Approve |
| **Publication of consultation response** | | Publish |
| **Section E2: Xoserve’ s Response to Organisations Comments** | | Thank you for your comments. |

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| **User Name** | **Eleanor Laurence** | |
| **User Contact Details** | [**Eleanor.laurence@edfenergy.com**](mailto:Eleanor.laurence@edfenergy.com) **/ 07875 117771** | |
| **Section E3: Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc.** | | |
| We support the use of solar radiation and precipitation data in the CWV calculation. This CR will facilitate Xoserve obtaining the data so that they can derive the CWV parameters and calculate the CWV going forwards. | | |
| **Implementation date for this option** | | Approve |
| **Xoserve preferred solution option** | | Approve |
| **DSG preferred solution option** | | Approve |
| **Publication of consultation response** | | Publish |
| **Section E3: Xoserve’ s Response to Organisations Comments** | | Thank you for your comments. |

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| **User Name** | **Amie Charalambous** | |
| **User Contact Details** | **07917271763** | |
| **Section E4: Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc.** | | |
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| **Implementation date for this option** | | Approve ~~/ Reject / Defer~~ |
| **Xoserve preferred solution option** | | Approve ~~/ Reject / Defer~~ |
| **DSG preferred solution option** | | Approve ~~/ Reject / Defer~~ |
| **Publication of consultation response** | | Publish ~~/ Private~~ |
| **Section E4: Xoserve’ s Response to Organisations Comments** | | Thank you for your comments. |

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| **User Name** | **Megan Coventry, Southern Electric Gas Limited, SSE Energy Supply Limited** | |
| **User Contact Details** | [**Megan.coventry@sse.com**](mailto:Megan.coventry@sse.com)**, 02392277738** | |
| **Section E5: Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc.** | | |
| **We agree with Solution Option 1.** | | |
| **Implementation date for this option** | | Approve |
| **Xoserve preferred solution option** | | Approve |
| **DSG preferred solution option** | | Approve |
| **Publication of consultation response** | | Publish |
| **Section E5: Xoserve’ s Response to Organisations Comments** | | Thank you for your comments. |

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| **User Name** | **Kate Mulvany Centrica** | |
| **User Contact Details** | **07789 572 420 kate.mulvany@centrica.com** | |
| **Section E6: Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc.** | | |
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| **Implementation date for this option** | | Approve |
| **Xoserve preferred solution option** | | Approve |
| **DSG preferred solution option** | | Approve |
| **Publication of consultation response** | | Publish |
| **Section E6: Xoserve’ s Response to Organisations Comments** | | Thank you for your comments. |

**Appendix 1**

**Change Prioritisation Variables**

Xoserve uses the following variables set for each and every change within the Xoserve Change Register, to derive the indicative benefit prioritisation score, which will be used in conjunction with the perceived delivery effort to aid conversations at the DSC ChMC and DSC Delivery Sub Groups to prioritise changes into all future minor and major releases.

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| **Change Driver Type** | CMA Order  MOD / Ofgem  EU Legislation  License Condition  BEIS  ChMC endorsed Change Proposal  SPAA Change Proposal  Additional or 3rd Party Service Request  Other*(please provide details below)* |
| **Please select the customer group(s) who would be impacted if the change is not delivered** | Shipper Impact iGT Impact Network Impact Xoserve Impact National Grid Transmission Impact |
| **Associated Change reference Number(s)** | **N/A** |
| **Associated MOD Number(s)** | **N/A** |
| **Perceived delivery effort** | 0 – 30  30 – 60  60 – 100  100+ days |
| **Does the project involve the processing of personal data?**  *‘Any information relating to an identifiable person who can be directly or indirectly identified in particular by reference to an identifier’ – includes MPRNS.* | Yes *(If yes please answer the next question)*  No |
| **A Data Protection Impact Assessment (DPIA) will be required if the delivery of the change involves the processing of personal data in any of the following scenarios:** | New technology  Vulnerable customer data  Theft of Gas  Mass data  Xoserve employee data  Fundamental changes to Xoserve business  Other*(please provide details below)*  *(If any of the above boxes have been selected then please contact The Data Protection Officer (Sally Hall) to complete the DPIA.* |
| **Change Beneficiary**  *How many market participant or segments stand to benefit from the introduction of the change?* | Multiple Market Participants  Multiple Market Group  All industry UK Gas Market participants  Xoserve Only  One Market Group  One Market Participant |
| **Primary Impacted DSC Service Area** | Service Area 15: Demand Estimation |
| **Number of Service Areas Impacted** | All  Five to Twenty  Two to Five  One |
| **Change Improvement Scale?**  *How much work would be reduced for the customer if the change is implemented?* | High  Medium  Low |
| **Are any of the following at risk if the change is not delivered?** | |
| Safety of Supply at risk Customer(s) incurring financial loss  Customer Switching at risk | |
| **Are any of the following required if the change is delivered?** | |
| Customer System Changes Required  Customer Testing Likely Required  Customer Training Required | |
| **Known Impact to Systems / Processes** | |
| **Primary Application impacted** | BW  ISU  CMS  AMT  EFT  IX  Gemini  Birst  Other *(please provide details below)* |
| **Business Process Impact** | AQ SPA RGMA  Reads Portal Invoicing  ☐ Other *(please provide details below)* |
| **Are there any known impacts to external services and/or systems as a result of delivery of this change?** | Yes *(please provide details below)*  No |
| **Please select customer group(s) who would be impacted if the change is not delivered.** | Shipper impact  Network impact  iGT impact  Xoserve impact  National Grid Transmission Impact |
| **Workaround currently in operation?** | |
| **Is there a Workaround in operation?** | Yes  No |
| **If yes who is accountable for the workaround?** | Xoserve  External Customer  Both Xoserve and External Customer |
| **What is the Frequency of the workaround?** |  |
| **What is the lifespan for the workaround?** |  |
| **What is the number of resource effort hours required to service workaround?** |  |
| **What is the Complexity of the workaround?** | Low *(easy, repetitive, quick task, very little risk of human error)*  Medium *(moderate difficult, requires some form of offline calculation, possible risk of human error in determining outcome)*  High *(complicate task, time consuming, requires specialist resources, high risk of human error in determining outcome)* |
| **Change Prioritisation Score** | 39% |

**Document Version History**

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| --- | --- | --- | --- | --- |
| **Version** | **Status** | **Date** | **Author(s)** | **Summary of Changes** |
| 1.0 | Proposal | 02/10/18 | Xoserve | Proposal, ready to be sent to ChMC for the first time |
| 2.0 | Proposal | 02/10/18 | Xoserve | Appendix added |
| 3.0 | With DSG | 12/10/18 | Xoserve | Output from ChMC meeting on 10th October added |
| 4.0 | With DSG | 19/10/18 | Xoserve | DSG notes from meeting on 15th October added to DSG |
| 5.0 | With DSG | 11/02/19 | Xoserve | DSG notes from meeting on 4th February added |
| 6.0 | Out for review (solution) | 15/02/19 | Xoserve | Sent out for solution review |
| 7.0 | Out for review (solution) | 04/03/19 | Xoserve | Reps added |

**Template Version History**

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| --- | --- | --- | --- | --- |
| **Version** | **Status** | **Date** | **Author(s)** | **Summary of Changes** |
| 3.0 | Approved | 17/07/18 | Emma Smith | Template approved at ChMC on 11th July |
| 4.0 | Approved | 07/09/18 | Emma Smith | Minor wording amendments and additional customer group impact within Appendix 1 |