High Level Solution Options Change Pack

# Communication Detail

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| Comm Reference: | 3244.1 – VO – PO |
| Comm Title: | XRN5585 – FWACV (Flow Weighted Average Calorific Value) - Phase 2 Service Improvements |
| Comm Date: | 18/12/2023 |

**Change Representation**

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| Action Required: | For Representation |
| Close Out Date: | 02/01/2024 |

# Change Detail

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| Xoserve Reference # | [XRN5585](https://www.xoserve.com/change/customer-change-register/xrn-5585-flow-weighted-average-calorific-value-phase-2-service-improvements/) |
| \*ChMC Constituency Impacted: | Distribution Network Operators  ***Note****: Also National Gas Transmission and nominally, Grain LNG (NG Ventures)* |
| Change Owner: | [uklink@xoserve.com](mailto:uklink@xoserve.com) |
| Background and Context: | During the FWACV Phase 1 Market Trials, Post Implementation Support (PIS) and from operational experience, the DNs, with the CDSP, have identified service improvements and further requirements.  In conjunction with the DNs, the CDSP has developed four FWACV Phase 2 solution options that provide varying levels of; process improvements, efficiency enhancements, development costs and, potential reduction in the DNs’ annual FWACV Service & Operate (S&O) costs.  The CDSP facilitated meetings on 15th and 16th November whereby the four solution options, their associated benefits, costs, and the potential ongoing cost savings were reviewed by the DNs.  The DNs’ preferred FWACV Phase 2 solution option;   * Option 1:Process Enhancements, File Format Changes and Automation Requirements   The DNs’ discounted FWACV Phase 2 solution options;   * Option 2: Process Enhancements and File Format Changes * Option 3: Process Enhancements and Automation Requirements * Option 4: Process Enhancements Only   **For the avoidance of doubt:** References to File Format Changes herein relate specifically to DNs’ (and potentially National Gas) FWACV-related file formats i.e. there are no impacts to shippers nor IGTs file formats. |

# Solution Options

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| Solution Option Summary: | As agreed by the DNs, this solution consultation is only considering Option 1. The other three options are included within the attached HLSO for information purposes.  **Solution Summary**  **Option 1: FWACV Service Enhancements/Automation of Manual Processes**     |  | | --- | | This will deliver the DNs’ “Must Have”, “Should Have” and “Could Have” requirements; | |  | | * Automation of existing FWACV processes to upload and validate data received from DNs, National Gas and Grain LNG via email   + CV, volume & energy values   + Existing and new site configuration updates   + LOR data * New process for submission of separate Calorific Values and gas flow values (Volume) for inter-LDZ transfer sites (EM-WM and NT-SO) using the existing file transfer mechanism * New process for biomethane sites (and potentially H2 blended sites) to be able to use an alternate site for LDZ CV Capping and use the original site CV for FWACV calculations (including reporting to Ofgem) * Changes to the AO & Y0 files and acknowledgements. * Consolidation of existing emails sent to DNs and National Gas (where applicable) to a single email that includes:   + LDZ CV Capping notification   + Default CV   + Missing CV   + Missing Volume   + Lowest CV * A new D+4 notification sent to DNs and National Gas via email to notify missing site data * A new process to introduce CV tolerance validations and send rejection notifications to DNs for invalid CV submissions * LOR requests to be accepted and processed for occurrences where the source data has been updated or replaced. As part of this requirement, any historic LORs and data fixes will be agreed during design * New daily EOD automated report sent via email to DNOs agreed distribution list. The report will include   + Substituted Site Information - (Gas Flow Day, LDZ, Site Name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | **Solution Option** | **Lower Estimate £** | **Upper**  **Estimate £** | | **1** | 308,000 | 385,000 |   **Automation of existing FWACV Processes**  The DNs requested the CDSP to provide a high-level cost estimate for a standalone, ‘automation’ solution of the manual processes as outlined in Option 1. The high-level cost estimate range for automation alone is between £154,000 and £200,000.  **Automation – annual reduction of FWACV Service & Operate costs**  In order for the DNs to further assess the cost and benefits arising from Option 1 we have also included a high-level assessment of delivering automation requirements and, the consequential reduction of the annual DSC Service & Operate by £108,000. |   **Solution Option Cost and Implementation**  **Summary of change impacts and cost assessment**  Our analysis activities have identified a total of 14 changes that need to be made, in 7 out of 10 programmes across the full end to end solution. This includes but is not limited to the FWACV calculation, attribution mapping and processing, file format logic and reporting  As these programmes are bespoke to the FWACV solution, testing activities are not currently automated and will need to cover approx. 150 test cases across the solution. Given the criticality of the service to industry and importance of the accuracy of the values calculated, we would be looking to take a prudent approach to ensure changes can be delivered with no impacts to service levels.  Full details of the preferred and discounted solution options and customer requirements can be found within the attached HLSO document; |
| Proposed Implementation Date: | Potentially June ’24 Release – subject to agreement by the DNs |
| Xoserve preferred option:  (including rationale) | After reviewing all four options, the DNs have advised the CDSP to progress Option 1 as its delivery will fully meet their requirements. |
| DSG preferred solution option:  (including rationale) | This Solution Change Pack will be presented for discussion at the Delivery Sub-Group (DSG) (Monday 18th December 2023); but please note this is the same day it will be issued for its formal ChMC solution consultation. |

# Service Lines and Funding

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| Service Line(s) Impacted - New or existing | Part A Direct Service – Code Services / Service Area 17 - DN Funded Service Activities *(existing line)* |
| Level of Impact | Medium – identified as being deliverable via a Major / Adhoc Release |
| Impacts on UK Link Manual/ Data Permissions Matrix | TBC during detailed design phase |

Industry Response Solution Options Review

«RangeStart:EDS»

***Please consider any commercial impacts to your organisation that Xoserve need to be aware of when formulating your response***

**Organisation’s preferred solution option**

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| User Contact Details: | Organisation: | «e1\_organisation» |
| Name: | «e1\_name» |
| Email: | «e1\_email» |
| Telephone: | «e1\_telephone» |
| Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc: | «e1\_preferredSolutionOption» | |
| Commercial impacts: | «e1\_commercial\_impacts» | |
| Customer decision on preferred solution option: | «e1\_dsgSolutionOption» | |
| Publication of consultation response: | N/A | |

**Xoserve’ s Response**

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| Xoserve Response to Organisations Comments: | «e2\_xoserveResponse» |

«RangeEnd:EDS»

Change Management Committee Outcome

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| Change Status: | Approve | Reject | | | Defer |
| Approved Solution Option | Option 1 | | | | |
| Funding Split agreed | 100% DNO | | | | |
| Industry Consultation: | 10 Working Days | | 15 Working Days | | |
| 20 Working Days | | Other [Specify Here] | | |
| Date Issued: | 18/12/2023 | | | | |
| Comms Ref(s): | 3244.1 – VO - PO | | | | |
| Number of Responses: | 2 | | | | |
| Solution Voting: | Shipper | | | Please select. | |
| National Grid Transmission | | | Approve | |
| Distribution Network Operator | | | Approve | |
| IGT | | | Please select. | |
| Meeting Date: | 10/01/2024 | | | | |
| Proposed Release Date: | Release: Major/Adhoc | | | | |

**Version Control**

**Document**

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| --- | --- | --- | --- | --- |
| Version | Status | Date | Author(s) | Remarks |
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