DSC Change Proposal Document

Customers to fill out all of the information in the sections coloured

Xoserve to fill out all of the information in the sections coloured

# A1: General Details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Change Reference: | 5531 | | | |
| Change Title: | Hydrogen Village Trial | | | |
| Date Raised: | 01/06/2022 | | | |
| Sponsor Representative Details: | Organisation: | SGN | | |
| Name: | Richard Beedell | | |
| Email: | richard.beedell@sgn.co.uk | | |
| Telephone: | +44 (0)7790 369396 | | |
| Xoserve Representative Details: | Name: | Simon Harris | | |
| Email: | [simon.harris@xoserve.com](mailto:simon.harris@xoserve.com) | | |
| Telephone: | 0121 229 2642 | | |
| Business Owner: |  | | |
| Change Status: | Proposal | | With DSG | Out for Review |
| Voting | | Approved | Rejected |

# A2: Impacted Parties

|  |  |  |
| --- | --- | --- |
| Customer Class(es): | Shipper | Distribution Network Operator |
| NG Transmission | IGT |
| All | Other <Metering and supplier parties> |
| Justification for Customer Class(es) selection | The extent to which Customer Classes will be impacted is as yet unknown however there are likely to be billing and settlement impacts based on previous assessments carried out for Hydrogen pilots. | |

# A3: Proposer Requirements / Final (redlined) Change

|  |  |  |
| --- | --- | --- |
| Problem Statement: | As part of the progression towards Net Zero, Cadent and NGN have been awarded network innovation funding by Ofgem via the RIIO-GD2 Net Zero Pre-Construction and Small Projects re-opener to develop detailed designs of a Hydrogen Village Trial in Whitby (Ellesmere Port) and Redcar respectively.  Each Village Trial will comprise up to 2,000 MPRNs covering domestic and light I&C premises.  These trials will need to demonstrate that end consumers are not adversely affected by consuming 100% Hydrogen through a repurposed existing gas network. The industry will need to ensure that end consumers can be billed appropriately for the gas energy they receive and that all existing Gas Industry processes will continue to work with the Calorific Value of Hydrogen (~12 MJ/m³, compared to natural gas at ~39MJ/m³).  SGN as the DN developing the Neighbourhood Trial (H100 Fife) is supporting the work required around changes to the Regulatory Framework for the Hydrogen Village Trials. | |
| Change Description: | CDSP to undertake an assessment establishing the potential impacts and DSC process changes to facilitate the consumption of a Hydrogen CV and that a settlement and billing process is in place for the affected Trial areas utilising Hydrogen.  The processes designed as part of this Hydrogen Village Trial will need to be replicable for the next phase of Hydrogen development, so cannot be designed specifically for this trial alone.  Items for Xoserve to consider but not be limited to:   * Transporter, Shipper and Supplier Licences * Gas Act * Gas (Calculation of Thermal Energy) Regulations * UNC & IGTUNC * REC * Settlement * Energy tracking and Billing systems and processes * IGT Networks * Metering * Calorific Value * LPG Networks   Some of the impacted items identified by this Change Proposal may not be required for the Hydrogen Village Trial but may be applicable to later trials.  Xoserve will also be required to lead/support DNs with Industry communications ensuring that all Industry parties are aware of the projects, impacts, and the change requirements. | |
| Proposed Release: | Release: Feb 24 or prior to Hydrogen Village project start date | |
| Proposed Consultation Period: | 10 Working Days | 15 Working Days |
| 20 Working Days | Other [Specify Here] |

# A4: Benefits and Justification

|  |  |
| --- | --- |
| Benefit Description: | The Hydrogen Village Trial is a strategic Net Zero project that has received approval (and funding) from Ofgem.  The Hydrogen Village Trial is primarily to understand the feasibility, costs, and convenience of using hydrogen for heat in occupied properties.  The commercial arrangements e.g. Xoserve meter reconciliation,  settlement, Supplier billing need to be adapted to support and ensure a successful  outcome for the Hydrogen Village Trial. |
| *What, if any, are the tangible benefits of introducing this change? What, if any, are the intangible benefits of introducing this change?* |
| Benefit Realisation: | The benefits will be realised immediately upon a successful CDSP  solution delivery. |
| *When are the benefits of the change likely to be realised?* |
| Benefit Dependencies: | DN’s will need to consider if changes are required to statutory/regulatory arrangements e.g. Thermal Energy Regulations, UNC, DSC. |
| *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.* |

# A5: Final Delivery Sub-Group (DSG) Recommendations – Removed (see Section C for DSG recommendations)

# A6: Service Lines and Funding

|  |  |  |  |
| --- | --- | --- | --- |
| Service Line(s) Impacted - New or existing | Not known at this stage | | |
| Level of Impact | Unclear | | |
| If None please give justification | Not known at this stage | | |
| Impacts on UK Link Manual/ Data Permissions Matrix | Not known at this stage | | |
| Level of Impact | Unclear | | |
| If None please give justification |  | | |
| Funding Classes  : | Customer Classes/ Funding | Delivery of Change | On-going Budget Amendment |
| Shipper | XX % | XX % |
| National Grid Transmission | XX % | XX % |
| Distribution Network Operator | XX % | XX % |
| IGT | XX % | XX % |
| Other <please specify> | XX % | XX % |
| ROM or funding details: |  | | |
| Funding Comments: | DN Decarbonisation Funded Project | | |

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

Version Control

# Document

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

# Template

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| --- | --- | --- | --- | --- | --- |
| Version | Status | Date | Author(s) | Remarks | Approved By |
| 3.0 | Superseded | 17/07/2018 | Emma Smith | Template approved at ChMC on 11th July 2018 |  |
| 4.0 | Superseded | 07/09/2018 | Emma Smith | Minor wording amendments and additional customer group impact within Appendix 1 |  |
| 5.0 | Superseded | 10/12/2018 | Heather Spensley | Template moved to new Word template as part of Corporate Identity changes. |  |
| 6.0 | Approved | 12/12/2018 | Simon Harris | Cosmetic changes made. Approved at ChMC on the 12th December 2018. |  |
| 6.1 | In Draft | 26/03/2019 | Richard Johnson/ Alison Cross | The following minor changes were made:   * Inclusion of an All ‘Impacted Parties’ option in A2 * Justification section added to section A2 * Change Description replaced with Problem Statement in section A3 * Remove ‘X’ in Release information (sections A3, A5, A7, C1 and G8) * Updated Service Line and UK Link impacts and funding section (A6) to include further detail * Amended questions 3 and 4 in section B * Added Service Line/UK link Assessment in section D * Removed Section A5 |  |
| 6.2 | For approval | 14/05/2019 | Alison Cross | Following review at DSC Governance review group re-added Change Description text box |  |
| 7.0 | Approved | 13/06/2019 | Richard Johnson | DSC Governance Review Group changes to the template approved at Change Management Committee on 12th June 2019 |  |
| 7.1 | Approved | 03/03/2021 | Rachel Taggart | Updated the email address of where to send new CP (page 3) |  |
| 7.2 | Approved |  | Rachel Taggart | Updated CP VA version to be in line with the updates to VB. |  |
| 8.0 | Approved | 09/03/2022 | Rachel Taggart | All Change Packs and response forms removed.  Sections A7 & A8 removed. | Template approved at Change Management Committee on 09/03/2022 |