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: |  | | | |
| Change Title: | Hydrogen Town Trial | | | |
| Date Raised: | 01/06/2022 | | | |
| Sponsor Representative Details: | Organisation: | WWU | | |
| Name: | Richard Pomroy | | |
| Email: | richard.pomroy@wwutilities.co.uk | | |
| Telephone: | +44 (0) 7812 973337 | | |
| 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 Distribution Networks are developing designs for a Hydrogen Town, with a view to the chosen project going live in 2030 and being the first phase of Hydrogen roll-out.  The town phase 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).  All networks are supporting the work required around changes to the Regulatory Framework for the Hydrogen Town Trials.  Should BEIS decide to rollout hydrogen widely in their decision due in 2026, it seems likely that the arrangements for the town trial will be the basis for enduring arrangements. | |
| 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 Town areas utilising Hydrogen.  The change proposal should consider both:   * Using the existing UNC arrangements with amendments; * Arrangements that are consistent with the UNC but which operate separately.   A key consideration is the impact on CDSP systems and impacts on Transporter, Shipper and Supplier internal systems. There may also be impacts on external parties such as Central Switching Service, Data Communications smart metering and Retail Energy Code systems.  The separate system approach will need to facilitate transfer of MPRNs from the natural gas systems to the hydrogen systems straightforward as potentially all 21M Supply Points may transfer over time. These transfers are likely to occur on a daily basis.  The work on the separate hydrogen system option will assume that existing industry processes and file flows are used unless there is good reason to change them. This work will consider whether any of the current arrangements require significant resource and whether these could be simplified; an example may be metering requirements and the consequent impacts on settlements where different obligations regarding metering may result in significant savings for industry.  The project needs to take account of other projects such as Project Union because a key assumption is likely to be that any GB hydrogen network will need to trade with the rest of Europe and therefore some basic parameters will be set by international agreements.  Impacts of both options on CDSP process including:   * Shipper lifecycle * Change of Supplier * Settlement (allocation and reconciliation) * Meter reading, UIG, demand profiling * Flow weighted average CV * Invoicing * IGTs * LPG networks * Interfaces with other external systems   Views on expected or possible impacts on the following should be noted but not developed in detail:   * Gas Act * Gas (Calculation of Thermal Energy) Regulations * Transporter, Shipper and Supplier Licences * UNC & IGTUNC * REC * SEC   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 29 or prior to Hydrogen Town project start date | |
| Proposed Consultation Period: | 10 Working Days | 15 Working Days |
| 20 Working Days | Other [Specify Here] |

# A4: Benefits and Justification

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| --- | --- |
| Benefit Description: | The Hydrogen Village Trial is a strategic Net Zero project that has received approval (and funding) from Ofgem.  The Hydrogen Town Trial will be the final trial and basis for the first rollout phase of a Hydrogen, costs, and convenience of using hydrogen for heat in occupied properties; therefore this design is likely to be the enduring basis should hydrogen rollout be authorised. Having agreed, robust and efficient system will facilitate rollout and support effective competition. |
| *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 for example legislation, licence or industry codes. |
| *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

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| --- | --- | --- | --- |
| 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 |