Detailed Design Change Pack

# Communication Detail

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| Comm Reference: | 3281.1 – LO - PO |
| Comm Title: | XRN5585 Flow Weighted Average Calorific Value (FWACV) - Phase 2 Service Improvements |
| Comm Date: | 13/05/2024 |

**Change Representation**

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| Action Required: | For representation |
| Close Out Date: | 28/05/2024 |

# Change Detail

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| Xoserve Reference No: | [XRN5585](https://www.xoserve.com/change/customer-change-register/xrn-5585-flow-weighted-average-calorific-value-phase-2-service-improvements/) |
| Change Class: | Functional change |
| \*ChMC Constituency Impacted: | **Distribution Networks (DNs), National Gas and Grain LNG**  \*Assumed impacted parties of the proposed change however, ***all*** DSC parties are encouraged to review |
| Change Owner: | [uklinkdelivery@xoserve.com](mailto:uklinkdelivery@xoserve.com) |
| Background and Context: | Following the successful implementation of XRN5231 – Provision of a FWACV Service, the CDSP now calculates the DNs’ daily Local Distribution Zone (LDZ) Flow Average Calorific Values (FWACV); these daily values are widely published and used in several critical gas industry processes.  During the FWACV Phase 1 development, additional requirements and process improvements were identified by the DNs and Xoserve. To ensure FWACV Phase 1 was delivered to the required timescale, it was agreed by the FWACV Focus Group to progress those additional requirements and improvements until a later date; FWACV Phase 2.  XRN5585 Phase 2 development of those identified requirements and service process improvements during Phase 1 will enhance the FWACV Service provision with improved operational efficiencies and, identified a reduction of the DNs’ annual CDSP Service and Operate costs.  Link to XRN5585 Change Proposal:  <https://www.xoserve.com/change/customer-change-register/xrn-5585-flow-weighted-average-calorific-value-phase-2-service-improvements/>  **Solution Option:**  The solution option will deliver the following 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 (e.g. EM to WM) using the existing file transfer mechanism * New process for biomethane sites to be able to use an alternate site for CV Capping and use the original site CV for FWACV calculations (including reporting to Ofgem) * Changes to the existing AI and AO files and creation of a new YR response file for existing inbound Y0 file * Consolidation of existing emails sent to DNs and National Gas (where applicable) to a single email that includes:   + CV Capping notification   + Default CV   + Lowest CV * Missing site data notification extended to daily until D+5. * A new process to introduce CV Tolerance Range (TR) parameter validation and issue rejection notifications to a DN for an invalid CV TR 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 * A new Outbound Response file (YR) and new hierarchy informing of Acceptance or Rejection of an inbound Y0 file * New daily End of day summary automated report sent via email to DNs agreed distribution list. The report will include   + Substituted Site Information - (Gas Day, LDZ, Site name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Day, LDZ, Site name, Capped CV, Shrinkage, FWACV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status   **Potential Impacts:**  We encourage all industry participants to review the contents within this document and make their own determinations on potential impacts as the CDSP would not have full visibility or understanding of such;  **Shipper Impacts**   * No Shipper impacts have been identified during the assessment of this change   **OFGEM FWACV Monthly Report Impacts**   * Xoserve sends this monthly report to Ofgem on behalf of all DNs * Several FWACV process changes will have an impact on this report:   + Inter LDZ Transfers   + Capping (blending) rules in relation to comingled sites * The DNs and the FWACV2 Project team will collaborate with OFGEM to assess the impacts and provide a solution determined by Ofgem (if required)   **Distribution Networks (DNs) Impacts**   * Process changes to Inter-LDZ Transfers and comingled sites blending/capping (RMPs) rules * Changes to the existing AI interface file to include the new Inter Transfer LDZ information at site level. This will be optional child record (Record 281) so DNs that do not require this functionality will have the flexibility for future use. * Changes to the existing AO interface file segment to include the full rejection code description. Please note: there are no changes to the existing file validation logic or existing rejections for this change. * Changes to the existing AO interface file segment to update the ‘STATUS’ to further include filetype and timestamp details instead of value ‘A’ * New YR response file introduced for Y0 (Inbound file containing CV data) will be created to send the successful or failure acknowledgment to DNs and National Gas. This file will be sent out for both original and amended CV files * New rejection reason will be introduced for the new CV validation checks and will be sent in the AO/new Y0 response file/ New EOD report * Changes to the Email Template Naming Conventions to adapt a standard format ([Refer Inbound Email Interfaces](#_Email_Interfaces_for)) * Email Distribution lists to be agreed and maintained in the system to be able to identify authorised users   **National Gas Impacts**   * New YR response file introduced for Y0 (Inbound file containing CV data) will be created to send the successful or failure acknowledgment to DNs and National Gas. This file will be sent out for both original and amended CV files * Changes to the Email Template Naming Conventions to adapt a standard format ([Refer Inbound Email Interfaces](#_Email_Interfaces_for)) * Email Distribution lists to be agreed and maintained in the system to be able to identify authorised users * **Note:** The National Gas Shrinkage and Energy reports are not impacted, however data changes due to the new capping rules will automatically reflect in the reports   **National Grid Ventures (Grain LNG) Impacts**   * Changes to the Isle of Grain Volume Template Naming Convention to adapt a standard format ([Refer Inbound Email Interfaces](#_Email_Interfaces_for)). * Email Distribution lists to be agreed and maintained in the system to be able to identify authorised users |

# Change Impact Assessment Dashboard

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| Functional: | Flow Weighted Average Calorific Value (FWACV) |
| Non-Functional: | None |
| Application: | SAP IS-U, MOVEIT |
| User(s): | Distribution Networks (DNs), National Gas, Shippers |
| Documentation: | None. |
| Other: | None. |

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| **File Format Changes** | | | | | |
| File | Parent Record | Record | Data Field Name | Data Description | Hierarchy or Format  Agreed |
| AI | AI 280 | 281 | New Segment | Details available in  [AI File Format](#_AI_File_Format) | AI 280 File format and Hierarchy will be modified to create a New optional child record segment 281 .The 281 record will have Inter LDZ data at site level and the parent 280 record will have the volume data. |
| AO | None | RT\_STATUS\_DATA  RT\_AMD\_STATUS\_DATA | Status | **DEFINITION:** Status of the record received **Source/Status Values-** \*A: <<FileName>> Accepted on DDMMYYYY HHMMSS (For Acceptance) \*Rejection Code with Rejection description (e.g. FWCV007: Gas day is outside closeout) | Existing Status field length increased from 10 to 150 in the existing outbound AO file |
| YR | New File | HD\_YR\_HEADER  RT\_YR\_DATA\_STATUS  TR\_Z99\_TRAILER | New File | Details available in  [YR file format](#_YR_File_Format) | New Outbound Response file and new hierarchy informing of Acceptance or Rejection for the inbound Y0 file via existing MOVEit/PO/ISU |

# Note: AO response files only includes the description of one Rejection code within the Status, there is no change to this process.

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| **Email Interfaces -Outbound** | | | | | |
| **Name** | **Description** | **Source** | **Target** | **Change Description** | **Example Email Mock up** |
| Missing/  Invalid CV (Y0 File) | Daily System generated Notification to DN until D+5 for missing/Invalid site CV -This is a collated list for all sites that have missing CV or invalid CV (e.g. CV 35 with a flow) data received via Y0 File | CDSP | DN,  NG | **As-Is:** D+1 and D+3 notifications  **To-Be:** Daily notification from D+1 to D+5 (inclusive) with collated list for all sites informing of missing site data with Close-Out date information sent to agreed distribution list |  |
| Missing/  Invalid CV and Volume data (AI File) | Daily System generated Notification to DN until D+5 for missing/Invalid site CV, Volume and energy -This is a collated list for all sites that have missing CV, volume and energy data received via the AI file | CDSP | DN | **As-Is:** D+1 and D+3 notifications  **To-Be:** Daily notification from D+1 to D+5 (inclusive) with collated list for all sites informing of missing site data with Close-Out date information sent to agreed distribution list |  |
| Lowest CV Notification | System generated notification to DNs to inform the Lowest of last 12-month CV for the site/sites was used in FWACV calculation. This will be generated only for D+1 initial run. | CDSP | DN,  NG | **As-Is:** Daily Adhoc system generated individual email for the 10:00 job run  **To-Be:** With FWACV2, the lowest CV, default CV and capped CV when occurred for the 10:00 job run will be collated and sent one email per DN per job run.  The attached document will show Lowest CV data occurrences for each LDZ.  **Note:** For avoidance of doubt, if for a Gas Flow Day; no lowest CV, default CV, or Capped CV notifications have occurred, no email will be sent. |  |
| Default CV Notification | System generated notification to DNs to inform the default CV for the site/sites was used in FWACV Calculation. This will be generated only for D+1 initial run. This might trigger capping process and a separate capping email will be sent. | CDSP | DN,  NG | **As-Is:** Daily Adhoc system generated individual email for the 10:00 job run  **To-Be:** With FWACV2, the lowest CV, default CV and capped CV when occurred for the 10:00 job run will be collated, and one email sent per DN per job run.  The attached document would show default data occurrences for each LDZ.  **Note:** For avoidance of doubt, if for a Gas Flow Day; no lowest CV, default CV, or Capped CV notifications have occurred, no email will be sent. |  |
| Capped CV Notification | Notification to DN to inform the LDZ Billing CV was Capped. This notification will be sent whenever a capped CV is generated irrespective of the job runs. | CDSP | DN,  NG | **As-Is:** Adhoc system generated individual email for 8:30, 10:00, 13:30 and 3:30 job runs  **To-Be:** With FWACV2, the lowest CV, default CV and capped CV when occurred for the 10:00 job run will be collated, and one email sent per DN per job run.  For all other job run times where capping occurs- a collated capping notification will be sent.  **Note:** For avoidance of doubt, if for a Gas Flow Day; no lowest CV, default CV, or Capped CV notifications have occurred, no email will be sent. |  |
| LOR Response outside closeout | Recalculated FWACV Data for LORs declared outside D+5 sent via Email to DN | CDSP | DN,  NG | **As-Is:** LOR email outbound notifications are currently sent out for every LOR request, and related capping emails are sent for each site causing issues with email volumes.  **To-Be:** All LOR email outbound notifications sent for LOR outside D+5 as per the existing process will be consolidated at DN level in a single email  **Note:** All capping, default and lowest CV occurrences as a result of LOR scenario will be sent in a consolidated email for one LOR template submitted. |  |
| EOD FWACV Summary Report | Daily Notification sent to DNs with Substituted Site information, Capped Site information, AI and Y0 File status information. | CDSP | DN | **As-Is:** AO summary report is sent manually every day to the DN in the morning for files received for previous day.  **To-Be:** Standardised Summary report is sent automatically every day to DNs end of day(post last job run) which will be an extension of old AO summary manual report. The AI and Y0 file status tab will reflect data for files received for the day.  The Capping and Substitution Tabs will display data until D+5 (excluding D+5 since it would have been Closed Out) where applicable. |  |
| FWACV Automation Error/acknowledgement Notifications | Notification sent to DN to inform of any data validation errors for any data upload templates.  **Please note:** These are specific to FWACV process and not Gemini validation errors | CDSP | DN,  NG | New system generated notifications sent to inform DN, NG of data validation errors or successful acceptance of the submitted data uploads. |  |

**Key Assumptions/Dependencies/Decisions:**

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| **Ref** | **Category** | **Description** |
| 1 | Decision | The new RMP site CV data will be sent via the existing Y0 file interface |
| 2 | Decision | **Capping Process:** The following rules have been agreed with the DNs:  **R1**: Where the original input point CV will not result in capping in LDZ billing CV, do not consider RMP site CV for capping process  **R2**: Where the original input point CV would result in capping LDZ Billing CV, identify if a RMP site (comingled) is associated and has a valid CV.  **R2.1** - if associated RMP site CV would not result in capping LDZ Billing CV, use  this CV for Capping process.  **R2.2** - if the associated RMP site CV would result in capping the LDZ Billing CV,  then lower CV (between input point CV and RMP CV) should be used for CV  Capping Process  **R2.3** -Lowest site CV +1 (LDZ Capped CV) in a given LDZ to include the output  of **R2.1** and **R2.2**  **R3**: Where no associated RMP (comingled site) exists, use the original input point CV for capping process.  **R4**: Associated RMP with invalid/missing CV, use the original input point CV for capping process.  **R5**: LDZ Billing CV calculation is unchanged, however the inputs to this calculation to include the output of **R2.3**  **R6**: Where the original input point CV = 35 MJ/m3 do not check for capping (no flow during gas day). Please note the AS-IS process for no flow to be followed.  Please refer the [Capping Rules Scenarios](#_Approved_Capping_Rules) for detailed information. |
| 3 | Decision | CV Tolerance Range Process: The following rules have been agreed  **R1:** Acceptable Tolerance Range for all individual sites is - >35 to <= 44 CV outside this range CV will be invalid triggering a rejection notification  **R2:** Existing FWACV Rule: No Flow CV = 35 to be still valid and this should not be rejected. |
| 4 | Decision | Inter LDZ Transfer- New sites created under the TO/TI site types using the Inter LDZ site types will have 1-1 mapping. (e.g. Hinckley Town EM TO 🡪 Hinckley Town WM TI).  For example - split considered in FWACV Focus Group:  Site Names : EM Transfer-Out (TO) split:  > Hinckley Town EM TO  > Atherstone EM TO  > Hydes Pastures EM TO  Site Names : WM Transfer-In (TI) split:  > Hinckley Town WM TI  > Atherstone WM TI  > Hydes Pastures WM TI |
| 5 | Decision | **RMP (comingled) Site Capping** Rules:   * Original input site can either one or multiple RMP sites linked to it, however the reverse is not true under FWACV2. * RMP sites as per the agreed acceptance criteria will not participate in attribution or lowest CV logic * Since RMP site CV is agreed to be sent via Y0 interface, if a missing CV scenario occurs then this would trigger a missing CV notification, and then proceed to use the original site CV for capping process. * RMP Sites- AI is not expected as per the requirements * RMP site will not be re-mapped as original site in its lifecycle. * RMP CV Tolerance Range will be set up within the new site set up process and amended using the new site update template |
| 6 | Decision  (Outstanding) | **OFGEM FWACV Monthly Report:** Inter LDZ Mapping Impact   * **Impact :**The D60 and D70 record will show all Transfer in (D60)/Transfer out (D70) Sites that are not in the exclusion list. Hence the split LDZ-LDZ pair (e.g. EM-WM) will disappear from this report   + **Decision Agreed** : No Change Required. * **Impact :** The D60 and D70 record will show all Transfer in (D60)/Transfer out (D70) Sites that are not in the exclusion list. The new sites created for EM and WM as part of FWACV Phase 2 will be displayed in this report   + **Decision Agreed** : No Change Required. * **Impact :** D60 record ‘Source LDZ’ field and D70 record ‘Recipient LDZ’ field data attributes are currently 8-character length in the system. If customers introduce a site name longer than 8 characters, then this report will be impacted.   + **Decision Outstanding :** The DNs and the FWACV2 Project team will collaborate with OFGEMto understand the change in the length and its impacts. Any changes made to the OFGEM report after a decision is made, will be retrospectively shared. |
| 7 | Decision | **OFGEM FWACV Monthly Report**: Blending/Capping (RMP) Impacts   * **Impact :**The D50 record will continue to show the capped CV ( even the RMP contributed CV) at LDZ level.   + **Decision Agreed** : No Change Required. * **Impact :** D10 and D20 records will show all the existing sites (inclusive of RMP onshore sites which is incorrect since RMP sites will not participate in FWACV - energy will not be calculated).   + **Decision Agreed** : Exclude RMP sites from D10 and D20 as RMP sites do not participate in the FWACV process. * **Impact :** D90 segment will show all sites with calorimeter reference and capping flag =‘N’ (including RMP sites )   + **Decision Agreed** : No Change Required. |
| 8 | Decision | **Inter LDZ Transfer:** As part the existing process, the volume received via the Record 280 for Inter LDZ TO site type is used to source the respective mapped TI site type (e.g. EM-TO to WM-TI). This logic will not change as part of FWACV Phase2 and will continue to be applied for the new split sites under the TO/TI site types |
| 9 | Decision | **Inter LDZ Transfer:** A new site created under the TO/TI site type will have attribution, CV Tolerance Range and Inter LDZ mapping defined where applicable in the new site creation process |
| 10 | Decision | **Inter LDZ Transfer:** When a new LDZ TO site and LDZ TI site mapping request is submitted for an existing LDZ-LDZ pair, the LDZ-LDZ pair will cease (no gas flow expected via Record 280) to exist and will be split at the site level.  FWACV system will have either LDZ-LDZ TO TI pair or LDZ TO site- LDZ TI site pair. |
| 11 | Assumption | **Inter LDZ Transfer:** The existing Site Creation template will reject any data for past site effective date, hence if a new Inter LDZ site is created for past site effective date, this will be rejected.  If however it is a valid DN(s) requirement, it will be manually updated in the FWACV application via a service request. In this scenario, the FWACV related data will not be available retrospectively, the system will only calculate for d to d+5 dates. |
| 12 | Assumption | **Inter LDZ Transfer:** SLA to inform Xoserve for any Site Configuration Updates, Inter LDZ Transfer Mapping and comingled site mapping updates is five Business Days before change becomes effective. |
| 13 | Assumption | Where applicable, the DN will ensure any CV Tolerance Range updates are sent to National Gas (as per agreed BAU processes).  Note: FWACV process has no interface to send a CV Tolerance Range to Gemini. If FWACV and Gemini CV Tolerance Ranges are not aligned, this might result in data rejections in Gemini. |
| 14 | Assumption | For the new YR Response file (to YO file ), the existing MOVEit folder structures would be used, and no new folders are created as part of FWACV Phase 2 for DNs |
| 15 | Assumption | Any historical site information (e.g. site serial number changes to support LOR process using the Site Update Template) will be set up as part of FWACV2 Project Delivery to be agreed with DNs, as a one-off activity. |
| 16 | Dependency | All templates submitted for data updates must follow the set naming conventions to ensure the system will not reject the data submissions.  Please refer to [**Email Interfaces for Data Upload Templates - Inbound Table**](#_Email_Interfaces_for) |
| 17 | Dependency | List of RMP information for Blending/Capping sites will be set up as part of FWACV2 Project Delivery to be agreed with DNs, as a one-off activity (site configuration) |
| 18 | Dependency | **Inter LDZ Transfer:** List of LDZs and site information related to TO-TI for Inter LDZ Transfer Mapping will be set up as part of FWACV2 Project Delivery to be agreed with DNs, as a one-off activity |
| 19 | Dependency | For the new YR Response file (to YO file ), new folders within MOVEit will be created for National Gas. National Gas will have MOVEit folders setup to receive the new YR file |

# Change Design Description

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| **Key Processes updated and created as part of FWACV Phase 2:**   1. **Automation of Existing and New Data Upload Templates**   DNs, National Gas and Grain LNG will send FWACV-related data (templates) to Xoserve in an agreed Naming Convention to [**FWACV@xoserve.co.uk**](mailto:FWACV@xoserve.co.uk)  **Note 1:** This box account currently is being used for operational queries and the submission of FWACV data (templates). After FWACV Phase 2 implementation, this box account will be dedicated to receiving FWACV-related data (templates) from all our customers. **Any emails without valid templates attached will be rejected with relevant error notifications.**  **For any FWACV-related business/data queries, customers should use the existing Help and Support page** [**https://www.xoserve.com/help-and-support/**](https://www.xoserve.com/help-and-support/)  **Note 2:** Senders of emailed FWACV data (templates) will be validated against the agreed distribution list for that customer. Any new sender will need to raise a service request to be added to the distribution list. Any email from an unidentified sender will be rejected in line with Xoserve’s email security standards.    Each customer’s distribution list (for inbound and outbound emails) will be agreed and set up as part of FWACV2 Project Delivery    **Note 3:** The proposed new Template naming convention is DDMMYYYY\_TEMPLATENAME.xlsx – It is recommended to use system date for DDMMYYYY to identify the right file for query resolution purposes.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Email Interfaces for Data Upload Templates -Inbound | | | | | | | Name | Description | Source | Target | To-Be | Proposed Changes | | **Missing CV** | Data Template used to submit the missing CV for a given gas flow day. This is a system generated template sent with pre-filled Site information and customers send the missing CV information | DN, NG | CDSP | Automated | Naming Convention Change:  [**DDMMYYYY\_MISSING\_CV**](#_Missing_CV)**.xlsx**  **e.g. 13042024\_MISSING\_CV.xlsx**  Please note that system generated template that customers used to send data in As-Is will now include **DDMMYYYY** in the template name.  A new pre-filled data item ‘Close-Out’ Date is introduced to inform customers of D+5 Close-Out in advance. | | **Missing Volume** | Data Template used to submit the missing volume for a given gas flow day.  This template is used only in BCM scenario where AI interface is unavailable to re-submit the files | DN | CDSP | Automated | Naming Convention Change:  [**DDMMYYYY\_MISSING\_VOLUME**](#_Missing_Volume)**.xlsx**  **e.g. 17102024\_MISSING\_VOLUME.xlsx** | | **Isle of Grain Volume** | Data Template used to submit Daily Volume information for Isle of Grain | Grain LNG | CDSP | Automated | Naming Convention Change:  [**DDMMYYYY\_VOL\_GRAIN.xlsx**](#_Isle_of_Grain)  **e.g. 18102024\_VOL\_GRAIN.xlsx** | | **Industrial Site Volume** | Data Template used to submit Daily Volume information for the 2 Industrial Sites | NG | CDSP | Automated | Naming Convention Change:  [**DDMMYYYY\_VOL\_INDUS**](#_Industrial_Sites_Volume)**.xlsx**  **e.g. 17102024\_VOL\_INDUS.xlsx** | | **LOR** | Data Template used to submit Loss of Records | DN, NG | CDSP | Automated | Naming Convention Change:  [**DDMMYYYY\_LOR**](#_Loss_of_Record)**.xlsx**  **e.g. 19102024\_LOR.xlsx**  Please note **DDMMYYYY** is one date, and a LOR period date should not be sent in the template name as the request will be rejected. | | **New Site Creation Process** | Data Template used to submit New Site Creation Requests | DN,  NG | CDSP | Manual | Naming Convention Change:  [DDMMYYYY\_NEW\_SITE\_CREATE](#_New_Site_Set).xlsx  **e.g. 24082024\_NEW\_SITE\_CREATE.xlsx**  New attributes **‘CV Low,’ ‘CV High’ and ‘Change Effective Date’** are introducedto enable customers to submit an appropriate CV Tolerance Range for any new site being set up in FWACV.  New Attributes **‘RMP Flag’** is introduced to identify if the new site is a comingled site. | | **Attribution Matrix** | Data Template used to submit any attribution changes or setup a new attribution mapping for a new site | DN,  NG | CDSP | Manual | Naming Convention Change:  [DDMMYYYY\_ATTRIBUTION\_MATRIX](#_Attribution_Matrix).xlsx  **e.g. 23102024\_ATTRIBUTION\_MATRIX.xlsx** | | **Site Update** | New Data Template to be used to submit for the below mentioned Site Configuration updates   * Site Serial Number * Stream * Capping Flag * CV LOW * CV HIGH | DN, NG | CDSP | Automated | New Template Naming Convention:  [DDMMYYYY\_SITE\_UPDATE](#_Site_Config_Update_1).xlsx  **e.g. 20102024\_SITE\_UPDATE.xlsx** | | **RMP (comingled)Mapping Template** | New Data Template to be used to submit the comingled site to original site mapping | DN | CDSP | Automated | New Template Naming Convention  [DDMMYYYY\_RMP\_MAPPING](#_Co-Mingled_Site_Mapping).xlsx  e.g. **22102024\_RMP\_MAPPING.xlsx** | | **Inter LDZ Mapping Template** | New Data Template to be used to submit the below request   * Creation of a new LDZ-LDZ pair * Creation of new Inter LDZ Transfer Site * Mapping the existing LDZ Transfer site as the correct TO and TI to split the existing LDZ (TO-TI) pair. | DN | CDSP | Automated | New Template Naming Convention  [DDMMYYYY\_INTER\_LDZ\_MAPPING](#_Inter_LDZ_Mapping).xlsx  **e.g. 23022025\_INTER\_LDZ\_MAPPING.xlsx** |   **Proposed Error Notifications Email for template submissions to** [FWACV@xoserve.co.uk](mailto:FWACV@xoserve.co.uk) :  Customers will receive email error notifications for the following error types;   * Unauthorised/Unidentified Email IDs or Domains * Invalid Email Attachments (e.g. Invalid naming convention or invalid attachment type) * Invalid data within the Email Attachment ( Data level validations e.g. Invalid Site type, Invalid date format)   The detailed list is available in the [**Appendix Section – Email and Template Validation Error Codes**](#_Email_and_Template)   1. **CV and Volume Data Processing**   **To-Be Process:**  The As-Is process is updated with the FWACV2 changes (highlighted in red text in the diagram) and the details outlined in the process step table:    Figure: AI and Y0 File Processing   |  |  | | --- | --- | | **Step** | **Description** | | **STEP 10** | There is no change to the AI file flow process, however a new child **Record 281** is introduced to include the Inter LDZ Transfer Out data at site level.  For DNs that send in ‘site level’ Transfer Out data, both **Record 280 and Record 281** should be sent in the same file.  For DNs that send LDZ Transfer Out data, **Record 280** to be used as per the existing process and there is no change.  New rejections will be introduced for the **new Record 281** inbound data and will be sent in AO file   | **Rejection Code** | **Rejection Description** | | --- | --- | | FWCV0010 | LDZ and Site combination does not exist |   Below table shows the existing AI rejections, these will also be applicable for the new Record 281 inbound data and will be sent in AO file   | **Rejection Code** | **Rejection Description** | | --- | --- | | FWCV0001 | File already exists in the system | | FWCV0002 | Incorrect File Name received | | FWCV0003 | Incorrect LDZ value received | | FWCV0004 | The LDZ on the file is not associated with the DN | | FWCV0005 | Incorrect file received from DN | | FWCV0006 | Mandatory Field is missing | | FWCV0007 | Gas day is outside closeout | | FWCV0009 | Site is invalid | | | **STEP 20B** | Notifications sent to National Gas for any error occurrences while processing the Industrial Volume templates. | | **STEP 30B** | Notifications sent to Grain LNG for any error occurrences while processing the Isle of Grain Volume templates. | | **STEP 60B** | New automation validations for submitted Isle of Grain and Industrial sites Volume Template.   * + Templates should be sent to [**FWACV@xoserve.co.uk**](mailto:FWACV@xoserve.co.uk) as per the existing Process. This box account will be used only for accepting data upload templates and any emails with no agreed data upload templates will be rejected.   + Templates will be sent in the agreed naming convention for the system to process. The proposed naming convention:   **DDMMYYYY\_VOL\_GRAIN.xlsx** e.g. 18102024\_VOL\_GRAIN.xlsx  **DDMMYYYY\_VOL\_INDUS.xlsx** e.g. 17102024\_VOL\_INDUS.xlsx   * + Templates will be accepted only from a recognised distribution list and any new sender will need to raise a service request to be added (or removed) from the distribution list. Any email from an unidentified sender will be rejected in accordance with Xoserve’s email security standards.   **Note:** Each customer’s distribution list (for inbound and outbound emails) will be agreed and set up as part of FWACV2 Project Delivery | | **STEP 70** | The Missing CV and Volume notifications will be sent for D+1- D+5.  **Note:** This email will now include Close-Out date information for all missing site CV occurrences, to ensure that customers can plan ahead and submit data within the Close-Out period. The existing manual email chaser for this process will be automated | | **STEP 90** | New automation validations for submitted **Missing CV and Missing Volume** Templates.   * + Templates should be sent to [FWACV@xoserve.co.uk](mailto:FWACV@xoserve.co.uk) as per the existing Process. This box account will be used only for accepting automated templates and any emails with missing CV/Volume subject, but no attachment will be rejected.   + Templates will have to be sent in the agreed naming convention for the system to be picked up. Proposed naming convention is as given below   **DDMMYYYY\_MISSING\_CV.xlsx** e.g. 16102024\_MISSING\_CV.xlsx  **DDMMYYYY\_MISSING\_VOLUME.xlsx** e.g. 17102024\_MISSING\_VOLUME.xlsx   * + Templates will only be accepted from a recognised distribution list and any new sender will need to raise a service request to be added (or removed) from the distribution list. Any email from an unidentified sender will be rejected in accordance with Xoserve’s email security standards.   **Note:** Each customer’s distribution list (for inbound and outbound emails) will be agreed and set up as part of FWACV2 Project Delivery | | **STEP 90B** | Notifications sent to DNs/NG for any error occurrences while processing the Missing CV /Missing Volume templates. | | **STEP 140** | New YR response file to the inbound Y0 file will be sent to DNs and National Gas informing of Acceptance or Rejection of the file.  The new file format and hierarchy is attached in the Appendix [(YR File Format)](#_YR_File_Format)  The following rejection codes will be applicable for the new YR file:   | **Rejection Code** | **Rejection Description** | | --- | --- | | FWCV0006 | Mandatory Field is missing | | FWCV0007 | Gas day is outside closeout | | FWCV0013 | Invalid CV flag received | | FWCV0014 | Invalid Attributable CV flag received | | FWCV0022 | GC Sample Stream number not associated with the site | | FWCV0023 | Site does not exist in the system | | FWCV0024 | Invalid CV received | |  1. **Site Creation Process**   **To-Be Process Model:**  The As-Is process model is updated with the FWACV2 changes (highlighted in red text in the diagram) and the details explained below:    The end-to-end ‘New Site Setup’ process is not being amended however; the following updates will be made to the existing [Site Creation Template](#_New_Site_Set):     1. CV Low, CV High data attributes added to ensure that a valid CV Tolerance Range is set for every new site being established. These are mandatory attributes, and the data template will be rejected if the Tolerance Range is not provided 2. RMP Flag data attribute added to ensure that every new site being set up has as option to use an alternative/comingled site where applicable for the capping process. This is a mandatory attribute and for every RMP site the flag to be set as ‘Y’ and where not applicable flag to be set as ‘N’ 3. [**DDMMYYYY\_NEW\_SITE\_CREATE**](#_New_Site_Set)**.xlsx**  template will be updated with information the customers can provide to create a new LDZ TO -LDZ TI pair using the existing new site create process. There are no template changes for this requirement 4. Template Naming Convention Change: To have a standard template naming convention for both manual and automated templates, the proposed naming convention is [**DDMMYYYY\_NEW\_SITE\_CREATE**](#_New_Site_Set)**.xlsx**   **e.g. 24082024\_NEW\_SITE\_CREATE.xlsx**     1. Requests will be validated as follows:  * Automated Check on Unauthorised /Unidentified Email IDs or Domains * Automated Check on Invalid Email Attachments (e.g. Invalid naming convention or invalid attachment type) * Manual Upload Screen Data validations, these will be communicated by the Xoserve Business Operations as per the existing process. Please note that the end-to-end process will remain as manual.  1. **Site Configuration Update Process**   **To-Be Process:** Proposed process for site configuration updates:    Figure: Site Configuration Update Process   | **Step** | **Description** | | --- | --- | | **Step 10**  DN: Send request | DN will send the new [‘**Site Update’**](#_Site_Config_Update) Template via email for the following site configuration changes;   * Site Serial Number * Stream * Capping * CV Tolerance Range Note: Where applicable, DNs to ensure the CV Tolerance range updates to be sent to National Gas (as per agreed BAU processes).   Please note: The FWACV process has no interface to send the CV Tolerance Range to Gemini. If FWACV and Gemini CV Tolerance Ranges are not aligned, this might result in Gemini rejecting data.  **Note: SLA to inform Xoserve for any site/data configuration updates is five Business days before the change is effective.** | | **Step 20**  Xoserve: Process request | FWACV application will receive and upload the Site Update Template  New automation validations for submitted **Site Update** Template will be undertaken in accordance with this process step;   * Site Update Template should be sent to [**FWACV@xoserve.co.uk**](mailto:FWACV@xoserve.co.uk)   + This box account will only be used for accepting FWACV data (templates) and any Site Update email without an attachment, will be rejected. * Templates will be sent in the agreed naming convention for the system to process; * The proposed naming convention is: **DDMMYYYY\_SITE\_UPDATE.xlsx**   e.g. 21102024\_SITE\_UPDATE.xlsx   * Templates will be accepted only for the recognised distribution list and any new sender will have to raise a service request to be added or removed from the distribution list. Any email from unidentified sender will be rejected in accordance with Xoserve’s email security standards. * **Note:** The email distribution list for both inbound and outbound will be agreed with DNs and National Gas * The site details will be maintained for future sites; hence any historical updates requests must be made through a formal Service Request | | **Step 30**  Xoserve: Internal data validation | FWACV system to validate the data based on agreed data validation rules. If the data is invalid go to STEP 40 else go to STEP 50 | | **Step 40**  Xoserve: Notify DN of any errors | Xoserve to send the error notifications informing of the data processing errors to ensure customers can resend the data | | **Step 50**  Xoserve: Internal Process | FWACV system to be updated with the new valid CV Tolerance Range and further use in the daily FWACV process | | **Step 60**  DN: Resend the correct information | DN that receives an error notification will resubmit the corrected data to Xoserve | | **Step 70**  Xoserve: Notify DN | Xoserve to send notification via email to the DN once the CV Tolerance Range is updated successfully within FWACV system | | **Step 80**  DN: Receive successful acknowledgment | DN will receive a successful update acknowledgement |  1. **RMP (Blending/Comingled) Site Mapping for Capping Process**   This process will be used to request the following;   * + Creation of a new RMP (comingled) site   + Mapping the existing site as a RMP (comingled) site to an existing original input site.     Figure: RMP (comingled/blending) Site Mapping Process   | **Step No** | **Description** | | --- | --- | | **Step 10**  DN: Initiate process | DN to initiate the process, if the request is for a new site go to Step 20a else go to Step 20b | | **Step 20a**  DN: Submit request for new comingled site Setup | For a new RMP (comingled) site request DN to submit the following;   * Send the New RMP site Details along with CV Tolerance Range parameters using the **‘Site Creation’** template * Set up the Attribution Matrix details for the new site via the **‘ Attribution Matrix’** template * Send the RMP site to original site mapping information in the **‘**[**DDMMYYYY\_RMP\_MAPPING.xlsx’**](#_Co-Mingled_Site_Mapping) template using the standard naming convention.   ***Pre-Requisite:***   * + ***The new site must be created before the mapping template is uploaded.***   + ***Please note if an original input site is not existing, the new site set up***   ***process to be used to first set up the original site before the RMP mapping request is made.***  **Note: The existing SLAs for New Site Setup Process is 6-8 weeks before site going live.** | | **Step 20b**  DN: Submit request for existing comingled Site Mapping | For the existing site to be mapped as an RMP site to an existing original input site, DNs to send the new **‘**[**DDMMYYYY\_RMP\_MAPPING.xlsx’**](#_Co-Mingled_Site_Mapping) template using the standard naming convention via email to the [**FWACV@xoserve.co.uk**](mailto:FWACV@xoserve.co.uk)  **Note: SLA to inform Xoserve for any site/data configuration updates is 5 Business days before change is effective.** | | **Step 30**  Xoserve: Process request | FWACV system to receive and load the RMP (comingled) site details  New automation validations for submitted templates are carried out as per this process step   * RMP Mapping Template should be sent to [**FWACV@xoserve.co.uk**](mailto:FWACV@xoserve.co.uk)   This box account will be used only for accepting automated templates and any emails with no valid template attachment will be rejected informing the sender.   * Templates to be sent in the agreed naming convention for the system to be picked up. Proposed naming convention is;   [**DDMMYYYY\_RMP\_MAPPING.xlsx**](#_Co-Mingled_Site_Mapping)  e.g. 22102024\_RMP\_MAPPING.xlsx   * Templates will be accepted only for the recognised distribution list and any new sender will have to raise a service request to be added or removed from the email distribution list. Any email from unidentified sender will be rejected in line with email security standards informing the customer.   **Note:** Each customer’s distribution list (for inbound and outbound emails) will be agreed and set up as part of FWACV2 Project Delivery | | **Step 40**  Xoserve: Internal data validation | FWACV system to validate the data based on the agreed data validation rules. If the data is invalid go to STEP 50 else go to STEP 60 | | **Step 50**  Xoserve: Notify DN of errors | Xoserve to send the error notifications informing of the data processing errors to ensure customers can resubmit the correct data. | | **Step 60**  Xoserve: Internal Process | FWACV system to be updated with the RMP (comingled) site details and further use in the daily FWACV process  Please refer the [Capping Rules Scenarios](#_Approved_Capping_Rules) for further information | | **Step 70**  DN: Resend the correct information | DN receiving validation error notification to re-submit corrected data to Xoserve | | **Step 80**  Xoserve: Notify DN | Xoserve to send notification via email to DN once the RMP (comingled) site details are updated successfully within FWACV system | | **Step 90**  DN: Receive successful acknowledgment | DN receives a successful update acknowledgement |  1. **Inter LDZ Mapping Process**   The proposed process will be used to request the following:   * + Creation of a new LDZ-LDZ pair   + Creation of new Inter LDZ Transfer Site   + Mapping the existing LDZ Transfer site as the correct TO and TI to split the existing LDZ (TO-TI) pair.     Figure: Inter LDZ Site Configuration Setup/Update Process   | **Step** | **Description** | | --- | --- | | **Step 10**  DN(s): Initiate process | DN(s) to initiate the process, check if the request is for a new LDZ-LDZ pair ?  If yes go to Step 10b else go to Step 10a | | **Step 10a**  DN(s): Initiate process | Check if the request is for a new Inter Transfer LDZ site creation ?  If yes, go to Step 20a else go to Step 20b | | **Step 10b**  DN(s): Submit request for new LDZ-LDZ pair | For a new LDZ-LDZ TO TI pair request   * Send the new LDZ TO and LDZ TI Details along with CV Tolerance Range data using the **‘**[**Site Creation’**](#_New_Site_Set) template. FWACV As-Is records the TO and TI as site to ensure it is included in the FWACV process. Hence to set up a new LDZ-LDZ pair the Site Creation Template will be provided. * Set up the Attribution Matrix details for the new site via the **‘** [**Attribution Matrix**](#_Attribution_Matrix_–)**’** template .   Please note that the **‘Attribution Site Name’** should be the TO-TI pair, e.g. if a new pair where NT as a TO and EA as a TI needs to be set up the ‘Attribution Site Name’ for this request will be NT-EA.   * DN will submit the **‘**[**DDMMYYYY\_INTER\_LDZ\_MAPPING**](#_Inter_LDZ_Mapping)**.xlsx**’ with relevant LDZ TO and LDZ TI pair details.   **Note:** As part the existing process, the volume received via the Record 280 (LDZ level) for Inter LDZ TO site type will source the respective mapped TI site type (e.g. EM-TO to WM-TI). This logic will not change as part of FWACV2 and will continue to be applied for the new split sites under the TO/TI site types received via the new Record 280 and Record 281 (site level). | | **Step 20a**  DN: Submit request for Inter LDZ New Site creation and mapping | For a new Inter LDZ Transfer Site request the DN will submit the following:   * Send the new site Details along with the CV Tolerance Range using the **‘Site Creation’** template. * Set up the Attribution Matrix details for the new site via the **‘ Attribution Matrix’** template * Send the new site mapping information in the **‘**[**DDMMYYYY\_INTER\_LDZ\_MAPPING**](#_Inter_LDZ_Mapping)**.xlsx**’ template using the standard naming convention.   ***Pre-Requisite:***   * + ***The new site and Attribution Matrix must be created before the mapping template is uploaded.***   + ***For an existing TO-TI pair, both TO and TI sites that are being split/created must have same effective date (go-live date).Please note the old LDZ-LDZ TO-TI pair will be in the exclusion list.***   **Note1:** The existing SLAs for New Site Setup Process is 6-8 weeks before the site becomes operational.  **Note2:** When a new LDZ TO site and LDZ TI site mapping request is submitted for an existing LDZ-LDZ pair, the LDZ-LDZ pair will cease to exist which means no gas flow data is expected via Record 280.  FWACV system will have either LDZ-LDZ TO TI pair or LDZ TO site- LDZ TI site pair. | | **Step 20b**  DN: Submit request to split the existing LDZ-LDZ pair at site level | For the existing site to be mapped as an Inter LDZ Transfer site to split LDZ-LDZ pair, DN will send the new ‘[**DDMMYYYY\_INTER\_LDZ\_MAPPING**](#_Inter_LDZ_Mapping)**.xlsx**’ template using the standard naming convention via email  **Note: SLA to inform Xoserve for any site/data configuration updates is 5 Business days before change is effective.** | | **Step 30**  Xoserve: Process request | FWACV system to receive and load the Inter LDZ Transfer Site details  New automation validations for submitted templates are carried out as per this process step   * Inter LDZ Mapping Template should be sent to [FWACV@xoserve.co.uk](mailto:FWACV@xoserve.co.uk)   This box account will be used only for accepting automated templates and any emails with no valid template attachment will be rejected informing the sender.   * Templates to be sent in the agreed naming convention for the system to be picked up. Proposed naming convention is as given below   [**DDMMYYYY\_INTER\_LDZ\_MAPPING**](#_Co-Mingled_Site_Mapping)**.xlsx**  e.g. 23022025\_INTER\_LDZ\_MAPPING.xlsx   * Templates will be accepted only for the recognised distribution list and any new sender will have to raise a service request to be added or removed from the email distribution list. Any email from unidentified sender will be rejected in line with email security standards informing the customer.   **Note:** Each customer’s distribution list (for inbound and outbound emails) will be agreed and set up as part of FWACV2 Project Delivery | | **Step 40**  Xoserve: Internal data validation | FWACV system to validate the data based on the agreed data validations, if the data is invalid move STEP 50 and upon successful validation move to STEP 60 | | **Step 50**  Xoserve: Notify DN of errors | Xoserve will send the error notifications informing of the data processing errors to ensure customers can resubmit the correct data. | | **Step 60**  Xoserve: Internal Process | FWACV system to be updated with requested details in the template and further use in the daily FWACV process | | **Step 70**  DN: Resend the correct information | DN that receives error notifications will resubmit the correct data to Xoserve | | **Step 80**  Xoserve: Notify DN(s) | Xoserve to send notification via email to the DN(s) once the requested (LDZ-LDZ pair or Inter LDZ transfer Site) details are updated successfully within FWACV system | | **Step 90**  DN(s): receives successful acknowledgment | DN(s) will receive the successful update acknowledgement and the process ends. |  1. **Loss of Record**  * No Changes to the LOR file processing * Currently, for any LOR requests submitted for a LOR period where the meter serial number has changed during the LOR period; these requests are rejected by FWACV application as there is no audit trail for the site data changes within FWACV. * As part of FWACV2, audit data for Site configuration updates requested using the [Site Update Template](#_Site_Config_Update_1) for a live site will be maintained to ensure that LORs submitted for LOR period where the site details have been changed will be accepted and processed.   **NOTE:** If the site details are not valid within the requested LOR period, then this request will be rejected, and an error notification will be sent to customer. The site details will be maintained for future sites; hence any historical updates requests must be done via a service request   * No Changes to the LOR file processing * All LOR email outbound notifications sent for LOR outside D+5 as per the existing process will be consolidated at DN level in a single email (example email below);      1. **End of Day Summary Report**   New daily automated ‘EOD Summary Report’ to be sent to the configured email distribution list and will include the following information;   * + Collated list of substitution occurrences at site level until D+5(inclusive) where an invalid AI file is received and the CV, Volume and Energy has been substituted for a Gas Flow Day   + Collated list of Capping occurrences at site level until D+5 (inclusive) for a gas flow day. This tab would inform if the capping caused by site is an RMP site, and any associated input site CV that caused capping as well.   + AI file status information will be available for the current Gas Flow Day   + Y0 file status information will be available for the current Gas Flow Day   The EOD Summary Report email will be issued after the last daily FWACV batch job run (around 16:00). Please see attached example of email mock up;      Please note that this will be automated, and no manual emails will be sent post-FWACV Phase 2 implementation. Appendix AAI File Format -UPDATE  AO File Format - UPDATE  YR File Format -NEW  Site Update Template - NEW  Missing CV - UPDATE  Missing Volume – Naming Convention Change Only  Isle of Grain Volume Template – Naming Convention Change Only  Industrial Sites Volume Template – Naming Convention Change Only  Loss of Record (LOR) – Naming Convention Change Only  New Site Set Up Template -UPDATE  Attribution Matrix – Naming Convention Change Only  Inter LDZ Mapping Template - NEW  RMP Site Mapping Template - NEW  Email and Template Validation Error codes  Approved Capping Rules Scenarios |

# Associated Changes

|  |  |
| --- | --- |
| Associated Change(s) and Title(s): | N/A |

# DSG

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| --- | --- |
| Target DSG discussion date: | 20/05/2024 |
| Any further information: | To present the key points of this pack and discuss any comments as a result or already provided from the Detailed Design Change Pack representations. |

# Implementation

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| --- | --- |
| Target Release: | November 2024 |
| Status: | TBC |

Industry Response Detailed Design Review

«RangeStart:HDS»    
    
**Change Representation**

(To be completed by User and returned for response)

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

|  |  |  |
| --- | --- | --- |
| User Contact Details: | Organisation: | «h1\_organisation» |
| Name: | «h1\_name» |
| Email: | «h1\_email» |
| Telephone: | «h1\_telephone» |
| Customer decision on Change Pack: | «h1\_userDataStatus» | |
| Commercial impacts: | «h1\_commercial\_impacts» | |
| Representation Publication: | «h1\_consultation» | |
| Representation Comments: | «h1\_userDataComments» | |

**Xoserve’ s Response**

|  |  |
| --- | --- |
| Xoserve Response to Organisations Comments: | «h1\_xoserveResponse» |

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

«RangeEnd:HDS»

Change Management Committee Outcome

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Change Status: | Approve | Reject | | | Defer |
| Industry Consultation: | 10 Working Days | | 15 Working Days | | |
| 20 Working Days | | Other [Specify Here] | | |
| Date Issued: | Click here to enter a date. | | | | |
| Comms Ref(s): |  | | | | |
| Number of Responses: |  | | | | |
| Solution Voting: | Shipper | | | Please select. | |
| National Gas Transmission | | | Please select. | |
| Distribution Network Operator | | | Please select. | |
| IGT | | | Please select. | |
| Meeting Date: | Click here to enter a date. | | | | |
| Release Date: | Release: Feb / Jun / Nov XX or Adhoc DD/MM/YYYY or NA | | | | |

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

Version Control

# Document

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| --- | --- | --- | --- | --- |
| Version | Status | Date | Author(s) | Remarks |
| 0.1 to 0.4 | Draft(s) | Various 2024 | Phanitha Chalasani | For review/comment: Internal, FWACV Focus Group, National Gas and Grain LNG |
| 1.0 | Final | 09/05/2024 | Phanitha Chalasani | Finalised for ChMC/DSC formal consultation |
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# Template

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| --- | --- | --- | --- | --- | --- |
| Version | Status | Date | Author(s) | Remarks | Approved By |
| 1.0 | Approved | 09/03/2022 | Rachel Taggart | Detail Design Change Pack transferred to own document | Change Management Committee on 09/03/2022 |
| 1.1 | Approved | 25/04/2023 | Rachel Taggart | Updated with new font branding | Emma Smith |