Market Change Request 1216			Smart Metering Remote Operations		
Status	Approved	**Priority**	Medium	**Status Date**	23/08/2023

Date	Version	Reason for Change	Version Status
31/01/2022	1.0	Issued to Market	Final
16/03/2022	1.1	Re-versioned due to impact of DR1219 V1.1	Final
18/05/2022	2.0	Re-versioned to update links to Market Documentation	Final
21/09/2022	3.0	Updated to reflect changes during Re-versioning Exercise for v14.00.00	Final
03./10/2022	V4.0	Updated to reflect re-instatement of ODP validation for V14.00.00	Final
09/01/2023	V5.0	Updated to include MM307 as impacted	Final
02/08/2023	V6.0	Updated to include MM014R and M116R as impacted and removal of MM308 as impacted.	Final

Part 1 DETAIL OF DISCUSSION REQUEST / MARKET CHANGE REQUEST	
Requesting Organisation(s)	NSMP
Request Originator Name	Donal O'Connor
Date Raised	25/06/2021

Classification of Request	
Change Type	Schema Impacting

Detail of Request

Background

In late 2007, the CRU, working closely with the Department of Communications, Energy and Natural Resources (DCENR), established the National Smart Metering Programme (NSMP). In Phase 1, a trial was carried out in order to assess the costs and benefits of smart meters and to inform decisions relating to the full rollout. In July 2012, a decision was announced to rollout electricity and gas smart meters for all residential and small and medium sized businesses. Phase 2 commenced in January 2013 and broadly composed of a high-level design and procurement phase. [CER14046].

The Smart Metering High Level Design Decision Paper published in October 2014 outlines the decisions with regard to the high level design stage within Phase 2 with regards to 1) Core Design, 2) Time of Use Tariffs, 3) Presentation of Energy Usage information to consumers and 4) Pay As You Go (PAYG) solution.

The original NSMP Programme plan envisaged a "big bang" delivery of all NSMP functionality for electricity, gas and in-home data Smart services, with an estimated delivery date in 2023. In early 2017 ESBN submitted a revised proposal to the NSMP to CRU, outlining a phased approach to the delivery of Smart Metering and the NSMP High Level Design (HLD). The proposal foresees delivery over three distinct phases. This Phased Approach proposal has been positively received by CRU and Energy Suppliers and now forms the basis of ESBNs plans and assumptions in respect of the NSMP. The CRU approval of the phased approach was publicly announced in September 2017.

Phase 1 was completed in March 2021 and delivered the installation of 250,000 Smart Electricity Meters. With the Market Schema Release delivered as part of this phase, all system, business and market changes were completed to allow 30-minute interval data to flow to Suppliers via the Market Systems and for Interval Data to be used in all market processes including DUoS Billing and Market Settlement Aggregation.

Phase 2 will deliver the installation of an additional 1 million Smart Electricity Meters by the end of September 2023. With the Market Schema Release at the end of September 2023, all retail market use cases requiring remote and local operation of the service switch in Smart Electricity Meters will be enabled. Smart Pre-Payment services with remote de-energisation/energisation can begin after this phase.

Phase 3 will deliver the installation of an additional 1 million+ Smart Electricity Meters by September 2025. Along with the Market Schema Release in September 2025, Gas Smart Metering Services and In-Home Data Services will be enabled.

NSMP Programme has implemented Phase 1 and Phase 2 has commenced. It is within this 2nd phase that the Smart Metering Remote Operations activity has commenced.

This MCR provides details of the Retail Market Design changes associated with Smart Metering Remote Operations.

Proposed Solution

This details the changes required to the Retail Market Design to enable the utilisation of the Remote Switch functionality of the Smart Meter.
This contains the offering of a Remote Switch capability in the following scenarios:

- De-Energise Non NPA
- De-energise NPA
- De-Energise PAYG
- Re-Energise Non NPA
- Re-energise NPA
- Re-Energise PAYG

The PAYG (D05/E05), Non-NPA (D01/E01) and NPA Re-Energisation (E02) requests will be enabled as part of the market release, the functionality for NPA De-Energisation (D02) requests will be built as part of this release, and CRU direction will indicate its enablement.

Changes to Market Messages, Data Items, Data Definitions and Data Codes are contained in the linked amended Design Documents (with track changes).

De-Energisation Non NPA and NPA
For Single Phase sites with a CTF level of 4, these will be carried out remotely, a site visit will be initiated where CTF <4 and a site visit will be initiated where intermittent comms prevent the operation of the remote switch.

De-Energise PAYG
For Single Phase MCC12 sites with a CTF level of 4 , these will be carried out remotely and a rejection will be issued where intermittent coms prevent the operation of the remote switch.

Re-Energise Non NPA, Re-energise NPA, Re-Energise PAYG
Where a site has been de-energised remotely these requests will be carried out remotely, and a site visit will be initiated where intermittent coms prevent the operation of the remote switch

Requests received outside of the allowable de-energisation period will be rejected unless the required data provided is within the de-energisation period, De-energisation period as defined in the De-Energisation code of Practice, PAYG Consultation and the Electricity and Gas Suppliers Handbook.

As Per CRU Smart Metering Phase 2 Scope currently for Non-Interval sites a de-energisation and re-energisation confirmation cannot be carried out on the same day. The following change will allow Suppliers to be informed where a De-energisation and Re-energisation occurs on the same day.

MM106D and MM106E changes
These will be sent for all Non-Interval sites as well (unmetered will remain as is) where there is a de-energisation or re-energisation

Non Interval same day De-energisation and Re-energisation
Where a De-energisation and Re-energisation are carried out on the same day, the MM306 won't be sent and the MM307 will be sent as normal

Issuing of MM307W
Where a change from a Non-Interval MCC is carried out on the same day or the day after a Re-energisation the MM307W is issued.

PAYG during CoS window
PAYG De-energisation/Re-energisation requests will be allowed during the CoS window.

The Prioritisation process for the V14.00.00 Schema Release, due to take place in September 2023, will indicate which MCR's are due to be implemented.
If approved this DR/MCR will be included along with the following other approved MCRs:

- MCR1210
- MCR1209
- MCR1208
- MCR1193
- MCR1189

Scope of Change

Design Documentation	Business Process	DSO Backend System Change	MP Backend System Change	Tibco	Supplier EMMA	Schema	Webforms	Extranet/NI Market Website
☒	☒	☒	☒	☒	☒	☒	☒	☒

Market Messages

Message No.	Message Name	ROI
017	Meter Point Status Change Request	MMG
102P	Change of Supplier Provisional Acceptance	MMG
106D	Meter Point Status Confirmation DeEnergisation	MMG
106E	Meter Point Status Confirmation Energisation	MMG
117R	Meter Point Status Request Rejection	MMG
131	Work Status	MMG
300	Validated Non Interval Readings Scheduled	MMG
300S	Validated Non Interval Readings Special	MMG
300W	Withdrawn Non Interval Readings	MMG
305	Non Settlement Estimates	MMG
306	Meter Point Status Change ~~Confirmation~~ DeEnergisation Read	MMG
307	Meter Point Status Change ~~Confirmation~~ Energisation	MMG
306W	Meter Point status Change DeEnergisation Withdrawn	MMG
307W	Meter Point Status Change Energisation Withdrawn Read	MMG
~~308~~	~~Non-Interval Load Factor Reading Exception~~	~~MMG~~
014R	Customer Details Change Rejection	MMG
116R	Change of Legal Entity Rejection	MMG

Data Definitions

No Impact

Data Codes

New Meter Point Status Codes on MM300MM 300W MM305MM306MM306W MM308MM102PMM106D MM300S
DR De-energised Remote

NewMeter Point StatusReason Codes on MM017
D05 De-energise (HH PAYG)
E05 Re-energise (HH PAYG)

Work Type on MM131
W208 Re-energise PAYG

Reject Reason on MM117R
ODP – Outside de-energise period.

Set "Valid in NI?" to "No".*No Impact at present*

Market Message Implementation Guides

ROI	Yes/No
Customer and Data Agreements	Yes
Data Processing	Yes
Meter Registration	Yes
Meter Works	Yes

Market Process Diagrams – MPDs

Market Process Number	Market Procedure	Affected
MPD 1	Change of Supplier Non Interval	Y
MPD 2	Change of Supplier Interva	Y
MPD 4	SoLR	Y
MPD 9	De-Energisation	Y
MPD10	Re-Energisation	Y
MPD 21	De-Energisation	Y
MPD 5	New Non Interval Metered Connection	Y
MPD 6	New Interval Metered Connection	Y
MPD 24	Change to Customer Details	Y
MPD 25	Change of Legal Entity	Y

Guidance Documentation

Document	Version	Affected
No impact		No Impact

Briefing Document

Briefing Document		Affected
Downloadable Meter Point Files Guide	V3.0	Y
MPRN Enquiry Webservice Guide	V1.0	Y
Retail Market Participant Extranet Website	v13.0	Y

User and Technical Documents			
Reference	**Name**	**Version**	**Affected**
No impact			No Impact

Comments

All Market Design Documentation for SMART Metering Retail Market Design Workshops affected by this MCR can be found on the RMDS Secure Website.

MPD01 Change of Supplier Non Interval
MPD02 Change of Supplier Interval
MPD 05 New Non Interval Metered Connection
MPD 06 New Interval Metted Demand Connection
MPD09 De-energisation
MPD09 De-energisation end to end
MPD10 Re-energisation
MPD10 Re-energisation end-to-end
MPD21 De-registration
MPD24 Change to Customer Details
MPD25 Change of Legal Entity
Downloadable Meter Point Files Guide
MPRN Enquiry Webservice Guide
Retail Market Participant Extranet Website
ROI MMG Data Processing
ROI MMG Meter Registration
ROI MMG Meter Works
ROI MMG Customer and Data Agreements
Market Schema Guide

Part 2 - Performance and Data Changes	
Market Messages volume, processing etc.	
Data	
Details of Data changes e.g. cleansing	

Approved by	**CRU**