

Supplementary Tables Working Group (STWG) Report

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STWG Objective

The Supplementary Tables sub-group reviewed the existing tables contained within AUC Rule 021 Settlement System Code Rules (the Rules) and identified those tables that can be consolidated in the tables section. A proposal to extract the identified tables from the Rules to facilitate revisions outside of the standard AUC rule making and revision process is outlined below. The revisions contemplated are those that would have little impact to market participants in general. The AESO will continue the compliance monitoring functions based on information stated on the supplementary tables.

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Process

1. The Settlement System Code Issues list dated as of January 28, 2009 was reviewed to confirm that the issues assigned to the subgroup were relevant to the group's objective and to incorporate other issues if applicable.
2. The tables contained within the Rules were assessed for eligibility as a Supplementary Table.
3. The eligible tables were evaluated for completeness and clarity.
4. Revisions to the eligible tables were discussed.
5. Assigned issues were reviewed together with the recommendations to confirm the issue description was taken into consideration.

Issues addressed

- 39:** Tables in the Rules should allow for new input/updates without the need for a full consultative review and approval by the Commission - addressed by **recommendations 1, 2 & 3**
- 67:** 9.4.6.11 Zone ID ranges can be eliminated as they are unnecessary. As a result they should be assigned by the AUC, not the individual LSAs – addressed by **recommendations 1, 2 & 7**
- 87:** Section 9 used to include a table summarizing the expected timing of settlement code transactions. We'd like to have this reinstated to the code - addressed by **recommendations 2 & 10**
- 93:** Section 9.4.6.6 Table 10 WSP ID. Additional columns would add clarity to the market. For example, Enmax is providing Wires Owner information on behalf of other wire owners. Another example is that at least one Wire Owner is not active in the market and never has been yet they appear in the table – addressed by **recommendation 8**
- 94:** Addition to Section 9.4.6.7 Table 11 Settlement ID. Additional columns would add clarity to the market. For example Simmarix is providing data on behalf of Ponoka but are not formally recognized in AUC Rule 021 – addressed by **recommendations 6 and 8**
- 95:** Addition to Section 9.4.6.8 Table 12 MDM ID. Additional columns would add clarity to the market. For example Enmax is providing data on behalf of Crowsnest Pass. Some MDMs are not currently active as MDMs – addressed by **recommendation 8**

- ☑ **132:** error/failure codes. Change to distributor specific and have the individual distributor’s list posted to AUC website, similar to the TBC process – addressed by **recommendation 9**

Eligible Supplementary Tables

Table 9	Business Function ID
Table 10	WSP ID
Table 11	Load Settlement Agent (LSA) ID
Table 12	MDM ID
Table 13	Settlement Zone ID
Table 16	DCM Status Flag Codes
Table 17A	GCM Status Flag Codes
New table	DIM Status Flag Codes
Table 51	Transaction Status Codes
New table	Settlement Type

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Recommendations

1. The AUC will maintain ownership of all Supplementary Tables and will be responsible for the content in the tables, i.e. the AUC will approval additions and revisions to the content in the tables.
2. Upon approval of a change, the AUC will issue a bulletin to advise stakeholders of the change. A 90-day notification period will be provided. The Supplementary Tables remain part of Rule 021 and are enforceable during compliance monitoring. The AUC has confirmed that changes to the Supplementary Tables do not require Commission approval.
3. Remove Tables 9, 10, 11, 12, 13, 16, 17A and 51 from the Rules (see Proposed Supplementary Tables section for details) and add them to the supplementary table list.
4. Add 2 new tables to the supplementary table list to define DIM status flag codes and settlement types (see Proposed Supplementary Tables section for details).
5. Review business transaction descriptions and replace applicable descriptions with codes as identified in the supplementary tables to add consistency to the transaction descriptions.
6. Assign a ~~Load Settlement Agent ID~~ to Simmarix and Valeo.

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7. Remove ranges from the zone id (Table 13).
8. Add active and expiry dates to WSP ID, Settlement ID, MDM ID and Zone ID tables. In addition, replace Lethbridge with Valeo and Ponoka with Simmarix as Settlement Agent Name in Settlement ID table, add metering type indicators (DCM, DIM, DSM) to MDM ID table and replace Ponoka with Simmarix as MDM Name in MDM ID table (see Proposed Supplementary Tables section for details).
9. Streamline the format of *Table 51 Transaction Status Codes* (see Proposed Supplementary Tables section for details). Wire Owners who make use of additional codes are advised to make a request to the AUC for additional code numbers to encourage consistency of codes and messages across distributors.
10. Re-instate the Settlement Code Standard Transaction Timing Table as a Supplementary Table (see Proposed Supplementary Tables section for details). The table has been revised from the previous versions as follows:
 - o CSE, SSR & SIR transactions have been removed as proposals to remove these transactions have been made
 - o Standardization Level column has been removed as all transactions currently have a standard content and format described in Rule 021
 - o Delivery Timing column has been removed since all market participants have delivery schedules and “overnight” is ambiguous
 - o “days” has been clarified as business days or applicable Rule is referenced

Additional Recommendations

Upon review of all the tables for consideration as a supplementary table, the group identified other issues unrelated to the objective of the group and proposes the following additional recommendations:

1. Remove the following forms and report formats from the Rules to allow changes to format more readily:
 - Table 4. PFEC Submission Form
 - Table 5. PFAM Claim Form
 - Table 54. System Level Metrics – Accuracy
 - Table 55. System Level Metrics - Initial Monthly Performance
 - Table 56. System Level Metrics - Final Settlement Performance
 - Table 57. Site Level Metrics – Accuracy
 - Table 58. Site Level Metrics - Initial Monthly Performance
 - Table 59. Site Level Metrics - Final Settlement Performance
 - Table 60. Cumulative Level Metrics - Data Collection Cycle
 - Table 61. Cumulative Level Metrics - Data Reporting Cycle

Table 62. System Performance Diagnostic Report

2. Reclassify the following tables as “examples”:

Table 7. DST Change Date Examples

Table 8. Retailer ID

Table 37. Signed Values in TAA - Example

3. To further clarify DST change date file format, the AUC will post a csv file for a full day for all transactions files impacted for both the spring and fall time change.

Proposed Supplementary Tables

Business Function ID

Existing:

Table 9. Business Function ID

Code	Meaning
DE	Default Retailer
LR	Supplier of Last Resort
RE	Competitive Retailer
RR	Regulated Rate Option Retailer
SR	Self Retailer
Blank	Not permitted
Null*	Not permitted

* Null means in a comma separated values file that there are no contents in the field at all and that the field is represented only by its terminating character, a comma.

Proposed:

Business Function ID

Code	Meaning
DE	Default Retailer
LR	Supplier of Last Resort
RE	Competitive Retailer
RR	Regulated Rate Option Retailer
SR	Self Retailer

WSP ID**Existing:**

Table 10. WSP ID

Wires Company ID	Wires Company Name
0010	ATCO
0020	ENMAX
0030	EPCOR
0040	FortisAlberta
0050	Lethbridge
0060	Crowsnest Pass
0070	Red Deer
0080	Ponoka
0090	Fort MacLeod
0100	Cardston
0110	SouthAlta REA
0120	Rocky REA
0121	Horseguard REA
0130	Central REA
0140	Battle River REA
0150	Barrhead REA
0151	Duffield REA
0153	Wild Rose REA
0154	Yellowhead REA
0155	North Parkland Power REA
0156	Sion REA
0160	Manning REA
0165	Lakeland REA

Proposed:

WSP ID			
Wires Co ID	Wires Co Name	Active	Expiry
0010	ATCO	1/Jan/01	1/Jan/99
0020	ENMAX	1/Jan/01	1/Jan/99
0030	EPCOR	1/Jan/01	1/Jan/99
0040	FortisAlberta	1/Jan/01	1/Jan/99
0050	Lethbridge	1/Jan/01	1/Jan/99
0060	Crowsnest Pass	1/Jan/01	1/Jan/99
0070	Red Deer	1/Jan/01	1/Jan/99
0080	Ponoka	1/Jan/01	1/Jan/99
0090	Fort Macleod	1/Jan/01	1/Jan/99
0100	Cardston	1/Jan/01	1/Jan/99
0110	SouthAlta REA	1/Jan/01	1/Jan/99
0120	Rocky REA	1/Jan/01	1/Jan/99
0121	Horseguard REA	1/Jan/01	1/Jan/99
0130	Central REA	1/Jan/01	1/Jan/99
0140	Battle River REA	1/Jan/01	1/Jan/99

Wires Co ID	Wires Co Name	Active	Expiry
150*	Barrhead REA	1/Jan/01	1/Jan/01
0151	Duffield REA	1/Jan/01	1/Jan/99
0153	Wild Rose REA	1/Jan/01	1/Jan/99
0154	Yellowhead REA	1/Jan/01	1/Jan/99
0155	N Parkland REA	1/Jan/01	1/Jan/99
0156	Sion REA	1/Jan/01	1/Jan/99
0160	Manning REA	1/Jan/01	1/Jan/99
0165	Lakeland REA	1/Jan/01	1/Jan/99

* Currently no data with WSP 0150: expired?

Load Settlement Agent (LSA) ID

Existing:

Table 11. Settlement ID

Settlement ID	Settlement Name
1010	ATCO
1020	ENMAX
1030	EPCOR
1040	FortisAlberta
1050	Lethbridge
1060	Crowsnest Pass
1070	Red Deer
1080	Ponoka
1090	Fort MacLeod
1100	Cardston

Proposed:

Load Settlement Agent (LSA) ID

LSA ID	Load Settlement Agent Name	Active	Expiry
1010	ATCO	1/Jan/01	1/Jan/99
1020	ENMAX	1/Jan/01	1/Jan/99
1030	EPCOR	1/Jan/01	1/Jan/99
1040	FortisAlberta	1/Jan/01	1/Jan/99
1050	Valeo	1/Jan/06	1/Jan/99
1080	Simmarix	1/Jan/06	1/Jan/99
1060*	Crowsnest Pass	1/Jan/01	1/Jan/01
1070*	Red Deer	1/Jan/01	1/Jan/01
1090*	Fort MacLeod	1/Jan/01	1/Jan/01
1100*	Cardston	1/Jan/01	1/Jan/01

Deleted: Settlement

* Currently no data with LSA 1060-1100: expired?

MDM ID**Existing:**

Table 12. MDM ID

MDM ID	MDM Name
2010	ATCO
2020	ENMAX
2030	EPCOR
2040	FortisAlberta
2050	Lethbridge
2060	Crowsnest Pass
2070	Red Deer
2080	Ponoka
2090	Fort MacLeod
2100	Cardston
2110	SouthAlta REA
2120	Rocky REA
2121	Horseguard REA
2130	Central REA
2140	Battle River REA
2150	Barrhead REA
2151	Duffield REA
2153	Wild Rose REA
2154	Yellowhead REA
2155	North Parkland Power REA
2156	Sion REA
2160	Manning REA
2165	Lakeland REA
2170	MIDAS
2175	City of Medicine Hat
2176	PowerEx
2180	TransAlta
2190	Trackflow
2195	AltaLink

Proposed:**MDM ID**

MDM ID	MDM Name	Active	Expiry	DCM	DIM	DSM
2010	ATCO	1/Jan/01	1/Jan/99	Y	Y	Y
2020	ENMAX	1/Jan/01	1/Jan/99	Y	Y	Y
2030	EPCOR	1/Jan/01	1/Jan/99	Y	Y	Y
2040	FortisAlberta	1/Jan/01	1/Jan/99	Y	Y	Y
2050	Lethbridge	1/Jan/01	?-???-??	2170	2170	
2060*	Crowsnest Pass	1/Jan/01	1/Jan/01	2010	2010	
2070	Red Deer	1/Jan/01		2010	2010	Y
2080	Simmarix	1/Jan/01		Y	Y	
2090*	Fort MacLeod	1/Jan/01	1/Jan/01	2010	2010	

MDM ID	MDM Name	Active	Expiry	DCM	DIM	DSM
2100*	Cardston	1/Jan/01	1/Jan/01	2010	2010	
2110**	SouthAlta REA	1/Jan/01	?-???-??	2xxx		
2120	Rocky REA	1/Jan/01		Y		
2121*	Horseguard REA	1/Jan/01	1/Jan/01			
2130	Central REA	1/Jan/01		Y		Y
2140	Battle River REA	1/Jan/01		Y		
2150*	Barrhead REA	1/Jan/01	1/Jan/01			
2151**	Duffield REA	1/Jan/01	?-???-??	2xxx		
2153**	Wild Rose REA	1/Jan/01	?-???-??	2xxx		
2154*	Yellowhead REA	1/Jan/01	1/Jan/01			
2155**	North Parkland Power REA	1/Jan/01	?-???-??	2xxx		
2156*	Sion REA	1/Jan/01	1/Jan/01			
2160***	Manning REA	1/Jan/01	1/Jan/99			
2165**	Lakeland REA	1/Jan/01	?-???-??	2xxx		
2170	MIDAS	1/Jan/01			Y	Y
2175	City of Medicine Hat	1/Jan/01				Y
2176	PowerEx	1/Jan/01				Y
2180*	TransAlta	1/Jan/01	1/Jan/01			
2190	Trackflow	1/Jan/01				Y
2195	AltaLink	1/Jan/01				Y
2xxx**	UtilityNet	?-???-??	1/Jan/99	Y		

* Currently no data with 2060, 2090, 2100, 2121, 2150, 2154, 2156: expired?

** Which entity is considered MDM for 2110, 2151, 2153, 2155, 2165. Transactions are received from UtilityNet.

*** Data for 2160 exists but not copied to AESO?

Settlement Zone ID**Existing:**

Table 13. Zone ID

Zone ID – Number Range	LSA
0001 to 0500	ATCO
0501 to 1000	ENMAX
1001 to 1500	EPCOR
1501 to 2000	FortisAlberta
2001 to 2100	Lethbridge
2101 to 2200	Crowsnest Pass
2201 to 2300	Red Deer
2301 to 2400	Ponoka
2401 to 2500	Fort MacLeod
2501 to 2600	Cardston

Proposed:**Settlement Zone ID**

<u>Settlement</u> Zone ID	Zone Name	Active	Expiry
0001	ATCO	1/Jan/01	1/Jan/99
0501	ENMAX	1/Jan/01	1/Jan/99
1001	EPCOR	1/Jan/01	1/Jan/99
1501	FortisAlberta	1/Jan/01	1/Jan/99
2001	Lethbridge	1/Jan/01	1/Jan/99
2101	Crowsnest Pass	1/Jan/01	1/Jan/99
2201	Red Deer	1/Jan/01	1/Jan/99
2301	Ponoka	1/Jan/01	1/Jan/99
2401	Fort MacLeod	1/Jan/01	1/Jan/99
2501	Cardston	1/Jan/01	1/Jan/99

DCM and GCM Status Flag Codes**Existing:**

Table 16. DCM Status Flag Codes

Code	Meaning
ME	Passed validation tests as described in s. 11.4.2.1
VE	Failed validation tests as described in s. 11.4.2.1, but passed verification process.
ES	Estimated based on methodology outlined in s. 11.4.2.2.3)

Table 17.A GCM Status Flag Codes

Code	Meaning
ME	Passed validation tests as described in s. 11.4.2.1
ES	Estimated
VE	Verified and Edited

Proposed:

DCM and GCM Status Flag Codes

Code	Meaning
ME	Passed applicable validation tests as described in Rule 21
VE	Failed validation tests as described in Rule 21, but passed verification process
ES	Estimated based on methodology outlined in Rule 21

DIM Status Flag Codes

Proposed (New):

DIM Status Flag Codes

Code	Meaning
ME	Actual read from meter
ES	Estimated meter read

Settlement Type

Proposed (New):

Settlement Type	
Code	Meaning
I	I Daily Settlement
M	I Monthly Settlement
R	Interim Settlement
F	Final Settlement

Comment [RL1]: Did we agree at the SSC working group meeting to remove the word "initial"? Not sure about this.

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Transaction Status Codes

Existing (partial):

Table 51. Transaction Status Codes

Status Code	Description	Applicable Transaction	Transaction w/o Status	Section Causing Error	Field Causing Error
0000	Transaction successful	all			
0001	Invalid transaction abbreviation	all			Transaction Abbreviation
0002	Invalid date / time format	all			Transaction Date time
0003	Invalid meter data manager ID	DCM			Meter Data Manager ID
0003	Invalid meter data manager ID	DIM			Meter Data Manager ID
0003	Invalid meter data manager ID		SRW		Meter Data Manager ID
0003	Invalid meter data manager ID	GIM			Meter Data Manager ID
0003	Invalid meter data manager ID	GCM			Meter Data Manager ID
0004	Invalid meter data manager ID for Site	DCM			Meter Data Manager ID
0004	Invalid meter data manager ID for Site	DIM			Meter Data Manager ID
0004	Invalid meter data manager ID for Site		SRW		Meter Data Manager ID
0004	Invalid meter data manager ID for Site	GIM			Meter Data Manager ID
0004	Invalid meter data manager ID for Site	GCM			Meter Data Manager ID
0005	Invalid Retailer ID	CSE			Retailer ID
0005	Invalid Retailer ID	DCM			Retailer ID
0005	Invalid Retailer ID	DEF			Retailer ID
0005	Invalid Retailer ID	DIM			Retailer ID
0005	Invalid Retailer ID	DSN			Retailer ID
0005	Invalid Retailer ID	ENF			Retailer ID
0005	Invalid Retailer ID	RDC			Retailer ID
0005	Invalid Retailer ID	ROC			Retailer ID
0005	Invalid Retailer ID	SRN			Retailer ID
0005	Invalid Retailer ID	SRR			Retailer ID
0005	Invalid Retailer ID	WSI			Retailer ID
0005	Invalid Retailer ID		DSR		Retailer ID
0005	Invalid Retailer ID		SRN		Retailer ID

Proposed:

General Transaction Status Codes

Status Code	Description
0000	Transaction successful
0001	Invalid transaction abbreviation
0002	Invalid date / time format
0003	Invalid meter data manager ID
0004	Invalid meter data manager ID for site
0005	Invalid retailer ID
0008	Invalid retailer ID for site
0009	Invalid settlement ID
0011	Invalid wire services provider ID
0012	Invalid wire services provider ID for site
0013	Invalid site ID

Status Code	Description
0018	Invalid priority code
0020	Invalid socket ID
0021	Transaction Status Code must be blank
0022	Business Function ID must be blank
0024	Invalid number of fields in the transaction
0025	Zone ID invalid - format, length, missing
0026	Invalid business function ID
0027	Other
0058	Meter Access Notes Field too long
0190	Retailer/RRP Account Number Field too long
0191	Retailer/RRP Reference Number Field too long
0196	Invalid meter information
0501	Meter Number invalid – format, length
0503	Max kVA invalid - format, length, missing on kVA meter
0504	Max kW invalid - format, length, missing on kW meter
0505	Last Reading Date Time invalid – format, length
0506	Current Reading Date Time invalid – format, length
0507	Last Meter Dial Reading invalid – format, length
0508	Current Meter Dial Reading invalid – format, length
0509	Max Reading (Watt) invalid - format, length, missing on kWh meter
0510	Max Reading (Voltamp) invalid - format, length, missing on Kva meter
0511	Meter Multiplier invalid - format, length, missing
0515	Record Status invalid – format, length
0516	Cumulative meter read to be cancelled does not exist
0517	Fields differ from original Meter Read, cancel aborted
0518	Use of one of the Meter Read dates would create an overlap,
0519	CA record encountered after regular reads, Cancel aborted
0520	Meter read values and consumption cannot be negative
0550	Load Research Flag invalid – format, length, missing
0551	Profile Class invalid – format, length, missing
0552	kW invalid – format, length, missing
0553	kWh invalid – format, length
0554	kVA invalid – format, length, missing
0555	kVAh invalid – format, length, missing
0556	kVAR invalid – format, length, missing
0557	kVARh invalid – format, length, missing
0558	DateTime invalid – format, length, missing
0559	Interval Period invalid – format, length, missing
0560	Hour Ending invalid – format, length, missing
0561	Demand (kW) Status invalid – format, length
0562	Consumption (kWh) Status invalid – format, length
0563	Demand (kVA) Status invalid – format, length, missing
0564	Demand (kVAh) Status invalid – format, length, missing
0565	Demand (kVAR) Status invalid – format, length, missing
0566	Demand (kVARh) Status invalid – format, length, missing
0567	Profiling Class invalid or missing for Sample meter record
0568	Interval Record would create a GAP, previous read must be estimated

Status Code	Description
0569	Meter read values and consumption cannot be negative, unless the site is set up as having distributed generation then consumption can be negative
1004	Retailer/RRP Account Number invalid – format, length
1005	Retailer/RRP Reference Number invalid – format, length
1006	LSA Transfer Number invalid – format, length
1052	Switch DateTime invalid – format, length
1100	Client Wire Services Provider ID invalid – format, length
1101	Settlement Run Date Time invalid – format, length, missing
1102	Settlement As At Date Time invalid – format, length, missing
1103	Settlement Type invalid – format, length, missing
1104	Profile Freeze Cutoff Date invalid -format, length, missing
1105	Settlement Interval Ending Date Time invalid – format, length, missing
1107	Settlement Hour Ending invalid – format, length, missing
1108	Retailer/RRP Usage Total (kWh) invalid – format, length, missing
1109	Retailer/RRP Loss Total (kWh) invalid – format, length, missing
1110	Retailer/RRP UFE Total (kWh) invalid – format, length, missing
1111	Retailer/RRP Energy Grand Total (MWh) invalid – format, length, missing
1200	Already de-energized
1201	Requested De-Energize Date invalid - format, length, missing
1202	Requested De-Energize Reason invalid - format, length, missing
1203	Already Energized
1204	Requested Energize Date invalid - format, length, missing
1205	Site does not have infrastructure
1206	De-Energize not requested
1207	Not Energized
1208	Off-Cycle Read Date invalid - format, length, missing

Enrolment Transaction Status Codes

Status Code	Description
0006	Invalid retailer ID – not eligible for new switches
0007	Invalid retailer ID – not valid for this wire services provider
0014	Site already enrolled with this Retailer/RRP
0015	Site has been salvaged
0016	Site not allowed to switch
0017	Switch has already been processed for site
0019	Invalid requested de-select date format
0050	Site not eligible for RRO
0051	Valid update customer information not received
0198	Invalid requested de-select date - notification period too short
0200	Invalid de-select reason
0201	Invalid requested de-select date - format, length, missing
0202	Already De-Selected
1002	Loss Group Code invalid – format, length, missing
1003	Enrollment Notification invalid – format, length, missing

UCI Transaction Status Codes

Status Code	Description
0059	Invalid onsite generation indicator
0060	Invalid SIC code
Customer Info	
0061	Customer first, last, and middle names not allowed with customer company name
0062	Customer Company Name Field too long
0063	Customer first name required
0064	Customer First Name Field too long
0065	Customer last name required
0066	Customer Last Name Field too long
0067	Customer Middle Name Field too long
0068	Customer name required
0069	City is required
0070	City Field too long
0071	Invalid city quadrant
0072	Compartment Field too long
0073	Country is required
0074	Invalid country
0075	Customer mailing address required
0076	Invalid mailing address combination
0077	Only one of civic address, delivery address, road address, or foreign address may be included
0078	An address for suburban services, mobile or rural routes cannot have a delivery installation.
0079	Delivery Installation Name Field too long
0080	Foreign Address 1 Field too long
0081	Foreign Address 2 Field too long
0082	Foreign Address 3 Field too long
0083	Foreign Address 4 Field too long
0084	Invalid general delivery indicator
0085	House Number Field too long
0086	House number required
0087	Letter Carrier Depot Field too long
0088	Lot ID Field too long
0089	Mobile Route Field too long
0090	Post Office Box Field too long
0091	Post Road Number Field too long
0092	Post road number required
0093	Invalid postal code format
0094	Pre Road Number Field too long
0095	Pre road number required
0096	Invalid province / state code
0097	Province / state code is required
0098	Retail Postal Outlet Field too long
0099	Invalid road type
0100	Road type required

0101	Rural Route Field too long
0102	Site Number Field too long
0103	Site number is only valid when used in combination with a rural route
0104	Station Name Field too long
0105	Invalid street direction code
0106	Street Name Field too long
0107	Street name required
0108	Invalid street pre-direction code
0109	Invalid street type code
0110	Street type code required
0111	Suburban Service Field too long
0112	Invalid unit definer
0113	Unit definer not allowed with unit number
0114	Unit Number Field too long
0115	Customer E-mail Address Field too long
0116	Invalid customer fax number
0117	Invalid customer mobile number
0118	Invalid customer pager number
0119	Invalid customer phone number
0193	Invalid Customer Business Phone number
0194	Invalid Contact Business Phone number
0195	Invalid Owner Business Phone number
Contact Info	
0120	Company Name Field too long
0121	First, last, and middle names not allowed with company name
0122	First Name Field too long
0123	First name required
0124	Last Name Field too long
0125	Last name required
0126	Middle Name Field too long
0127	Contact name is required
0128	E-mail Address Field too long
0129	Invalid fax number
0130	Invalid mobile number
0131	Invalid pager number
0132	Invalid phone number
Owner Info	
0133	Owner Company Name Field too long
0134	First, last, and middle names not allowed with company name
0135	Owner First Name Field too long
0136	Owner First name required
0137	Owner Last Name Field too long
0138	Owner Last name required
0139	Owner Middle Name Field too long
0140	City is required
0141	City Field too long
0142	Invalid city quadrant
0143	Compartment Field too long
0144	Country is required

0145	Invalid country
0146	An address for suburban services, mobile or rural routes cannot have a delivery installation
0147	Delivery Installation Name Field too long
0148	Foreign Address 1 Field too long
0149	Foreign Address 2 Field too long
0150	Foreign Address 3 Field too long
0151	Foreign Address 4 Field too long
0152	Invalid general delivery indicator
0153	House Number Field too long
0154	House number required
0155	Letter Carrier Depot Field too long
0156	Lot ID Field too long
0157	Mobile Route Field too long
0158	Invalid mailing address combination
0159	Only one of civic address, delivery address, road address, or foreign address may be included
0160	Post Office Box Field too long
0161	Post Road Number Field too long
0162	Post road number required
0163	Invalid postal code format
0164	Pre Road Number Field too long
0165	Pre road number required
0166	Invalid province / state code
0167	Province / state code is required
0168	Retail Postal Outlet Field too long
0169	Invalid road type
0170	Road type required
0171	Rural Route Field too long
0172	Site Number Field too long
0173	Site number is only valid when used in combination with a rural route
0174	Station Name Field too long
0175	Invalid street direction code
0176	Street Name Field too long
0177	Street name required
0178	Invalid street pre-direction code
0179	Invalid street type code
0180	Street type code required
0181	Suburban Service Field too long
0182	Invalid unit definer
0183	Unit definer not allowed with unit number
0184	Unit Number Field too long
0185	Owner E-mail Address Field too long
0186	Invalid fax number
0187	Invalid mobile number
0188	Invalid pager number
0189	Invalid phone number
0192	Site owner name is required

General Info	
0053	C/O or Attention Field too long
0054	Invalid critical to have power indicator
0055	Critical to have power reason is required
0056	Invalid critical to have power reason
0057	Invalid GST exemption indicator

Transaction Timing Table

Proposed:

Process (could contain many transactions)	Transaction	Input from (data source)	Output to (i.e. LSA, MDM, MSP, Retailer/RRP, all utilities, general public)	Work completion to notification delay (maximum)
Select Retailer Request	SRR	Retailer/ RRP	LSA	Refer to section 7.4 subsection 3
Select Retailer Notification	SRN	LSA	New Retailer/RRP	Refer to section 7.4 subsection 8
Notify Old Retailer	SRO	LSA	Old Retailer/RRP	Refer to section 7.4 subsection 8
Settlement Notify MDM, WSP	SRW	LSA	MDM, WSP	Refer to section 7.4 subsection 8
Update Customer Information	UCI	Retailer/ RRP	WSP	Refer to section 9.6.4.1 subsection 3
Update Customer Information Response	UCI	WSP	Retailer/RRP	Next Business Day
Request Update Customer Information	RUC	WSP	Retailer/RRP	Refer to section 9.6.4.3 subsection 2
Energize Request	ENR	Retailer/ RRP	WSP	
Energize Failure	ENF	WSP	Retailer/RRP	5 Business Days
Energize Completion to Retailer Settlement and MDM	ENC	WSP	Retailer/RRP, MDM, LSA	5 Business Days
De-Energize Request	DER	Retailer/ RRP	WSP	
De-Energize Failure	DEF	WSP	Retailer/RRP	5 Business Days
De-Energize Completion to Retailer, Settlement and MDM	DEC	WSP	Retailer/RRP, MDM, LSA	5 Business Days
Request Off Cycle Meter Read	ROR	Retailer	WSP	
Request Off Cycle Meter Read Completion	ROC	WSP	Retailer/RRP	5 Business Days
Revoke De Energize Request	RDR	Retailer/ RRP	WSP	
De-Select Request	DSR	Retailer/ RRP	WSP	
De-Select Notification	DSN	WSP	LSA, MDM, Retailer/RRP	Same Day

Process (could contain many transactions)	Transaction	Input from (data source)	Output to (i.e. LSA, MDM, MSP, Retailer/RRP, all utilities, general public)	Work completion to notification delay (maximum)
Revoke De-Select Request ¹	RDS	Retailer/ RRP	WSP	
Revoke De-Select Notification ²	RDN	WSP	Retailer/ RRP	Same Day
Site Metering Characteristics ³	SMC	WSP	Retailer/ RRP	5 Business Days
Micro-Generation Retailer Notification	GRN	WSP	Retailer/RRP	5 Business Days
Micro-Generation Retailer Summary	GRS	Retailer/RRP	AESO	Refer to section 9.6.6.3 a) subsection 6
Micro-Generation Interval Meter Readings	GIM	MDM	LSA, WSP, Retailer/RRP	Refer to section 4.4.2 subsection 1
Micro-Generation Cumulative Meter Consumption to Retailers/RRP	GCM	MDM	Retailer/RRP	Refer to section 11.4.5 subsection 2
Daily Interval Meter Readings	DIM	MDM	LSA, WSP, Retailer/RRP	Refer to section 4.4.2 subsection 1
Daily Cumulative Meter Consumption to Retailer/RRP and Settlement	DCM	MDM	LSA, WSP, Retailer/RRP	Refer to section 11.4.5 subsection 2
POD Interval Consumption	DSM	MDM	LSA	Refer to section 4.4.2 subsection 1
Settlement Summary Information	SSI	LSA	All Retailer/RRP's, ISO	Refer to section 4.4
Settlement Profile Information	SPI	LSA	All Retailer/RRP's	Refer to section 4.4
Wholesale Settlement Information	WSI	LSA	Retailer/RRP, ISO, client WSP	Refer to section 4.4
Wholesale Settlement Summary	WSS	LSA	Retailer/RRP, ISO, client WSP	Refer to section 4.4
Detailed Settlement Information for Retailer/RRP's own sites	WSD	LSA	Retailer/RRP	Refer to section 4.4
Wholesale Class Information	WCI	LSA	Retailer/RRP, ISO, client WSP	Refer to section 4.4
Retailer Specific Adjustment	RSA	LSA	ISO	Refer to section 5.3.8
Retailer Adjustment to Market	RAM	LSA	ISO	Refer to section 5.3.8
Transmission Administrator Adjustment	TAA	LSA	ISO	Refer to section 5.3.8

¹ New Proposed Transaction from De-Select Working Group

² New Proposed Transaction from De-Select Working Group

³ SMC's Triggered from a Site Enrollment Must Follow the Enrollment Timing as Stated in section 7.4 subsection 8