

Rule 028

Natural Gas Settlement System Code Rules

This rule as amended was approved by the Alberta Utilities Commission on December 21, 2017, and is effective on January 1, 2018.

Update: version 1.6

This document can be referred to as version 1.6 of AUC Rule 028: *Natural Gas Settlement System Code Rules* (Rule 028). Rule 028 is an operational document that defines the business processes and mechanics of how natural gas settlement is to be carried out at the retail natural gas market level in Alberta.

Consequently, a consultative process is used to identify improvements and revisions that are to be made to Rule 028 to keep the rule relevant and reflective of the requirements of the retail natural gas market.

A working group made up of industry representatives meets regularly to identify changes that are required to be made to Rule 028 and to assign priority rankings to the changes. Subgroups are formed to address the high-priority changes and to make recommendations to AUC staff. AUC staff incorporates any recommended changes into a draft version of a revised Rule 028. Stakeholders are then provided the opportunity to comment on the draft version to ensure the proposed wording and changes reflect the requirements of the industry. Commission approval is obtained for the revised rule once the industry comments are received and reviewed. Commission approval is sought by the end of the calendar year with implementation during the following year.

This lag between the approval date and the implementation date is to recognize that the approved revisions to Rule 028 will require industry stakeholders to make changes to their business processes and information technology systems in order to be compliant. The lag provides these entities the time to develop, implement and test their internal changes so that there is no disruption in the business processes once the revised changes are to take effect.

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1 Definitions

1.1 Key terms

| | |
|--|---|
| backcast (B1) | Backcast is an estimate of a retailer’s aggregate and per site gas consumption near the end of the gas day using models, actual and forecast temperatures for a gas day and/or automatic meter reading. |
| business day | A business day has the meaning ascribed to the term “business day” in AUC Rule 021: <i>Settlement System Code</i> , which references the stakeholder calendar posted on the Independent System Operator’s website (www.aeso.ca). |
| code | Code means this set of Natural Gas Settlement System Code (NGSSC) rules. |
| Commission | Commission means the Alberta Utilities Commission. |
| customer | Customer has the meaning ascribed to the term “customer” in Part 2.1 of the <i>Gas Utilities Act</i> . |
| default supply provider | Default supply provider has the meaning ascribed to the term “default supply provider” in Part 2.1 of the <i>Gas Utilities Act</i> . |
| distribution zone | Distribution zone refers to all sites within an area defined by the load settlement agent (LSA). |
| distributor | Distributor has the meaning ascribed to the term “gas distributor” in Part 2.1 of the <i>Gas Utilities Act</i> . |
| final settlement (S3) | Final settlement is the final calculation of settlement for the settlement month. |
| Forecast 1 (F1) | Forecast 1 is the first estimate of a retailer’s aggregate consumption for a gas day based on forecast temperatures. |
| Forecast 2 (F2) | Forecast 2 is the second estimate of a retailer’s aggregate consumption for a gas day based on forecast temperatures. |
| Forecast 3 (F3) | Forecast 3 is the third estimate of a retailer’s aggregate consumption for a gas day based on forecast temperatures. |
| gas day | A gas day is the 24-hour period starting at 8 a.m. |
| initial monthly settlement (S1) | Initial monthly settlement is the first calculation of settlement for the settlement month. |
| interim settlement (S2) | Interim settlement is the second calculation of settlement for the settlement month. |
| load settlement agent (LSA) | LSA means the party conducting settlement calculations for a particular distribution zone. |
| meter data | Meter data is the measurement data associated with a metering point. |

| | |
|---------------------------------------|--|
| meter data manager (MDM) | An MDM is the entity responsible for collecting meter data, correcting and validating interval meter data, storing historic data and reporting consumption data together with corresponding time periods to appropriate parties. |
| natural gas market participant | Natural gas market participant has the meaning given the term “natural gas market participant” in Part 5 of the <i>Alberta Utilities Commission Act</i> . |
| profile | A profile is a series of consumption amounts for each interval over a particular time period. |
| profiling class | A profiling class is a group of sites that will be settled using a common profile. |
| retailer | Retailer either has the meaning given to the term “retailer” or the term “default supply provider” in Part 2.1 of the <i>Gas Utilities Act</i> , except in those cases where the “default supply provider” and the “distributor” are different parts of the same organization and are not required to exchange transactions as per Section 7.1 of this code, in which case the term “retailer” in the <i>Gas Utilities Act</i> is the only one that applies. |
| retailer of record | The retailer of record is the single retailer (as defined above) that the settlement system recognizes as serving a given site for a given day. |
| settlement interval | Settlement interval is the time increment at which distinct consumption estimates are calculated by the settlement system. |
| settlement month | Settlement month is the calendar month for which the initial monthly, interim and final settlement relate to. |
| settlement-ready data | Settlement-ready data is data that is complete and ready for use in settlement. |
| settlement system | A settlement system is a computer system and associated operations and interfaces used to determine the energy responsibility at each unit of the settlement interval, for each retailer operating within the distribution zone. |
| settlement timing | Settlement timing is the frequency at which settlement is calculated and reported to retailers by LSAs. |
| site | A site is a unique end-use service delivery point. This is the finest level at which settlement recognizes retailer assignments and receives consumption data. |
| socket | A socket is a point at which consumption is measured and a physical meter is installed. Where the consumption for a site is measured by more than one meter, the multiple measurement points are identified as sockets. |
| system level | System level means the daily aggregated measurement/estimate of energy into or out of a distribution zone. |
| unaccounted-for gas (UFG) | UFG is the difference between total system receipt and total system consumption by distribution zone. UFG in the code refers to UFG on gas distribution systems. |

1.2 Common abbreviations

| | |
|--------------|---|
| AUC | Alberta Utilities Commission |
| B1 | backcast |
| CONP | cut off for nonpayment |
| DCM | daily cumulative meter consumption transaction |
| DEC | de-energize completion transaction |
| DEF | de-energize failure transaction |
| DER | de-energize request transaction |
| DSN | de-select notification transaction |
| DSP | default supply provider |
| DSR | de-select request transaction |
| ENC | energize completion transaction |
| ENF | energize failure transaction |
| ENR | energize request transaction |
| F1 | Forecast 1 |
| F2 | Forecast 2 |
| F3 | Forecast 3 |
| ID | identifier |
| LSA | load settlement agent |
| MDM | meter data manager |
| NGSSC | AUC Rule 028: <i>Natural Gas Settlement System Code</i> |
| PFEC | pre-final error correction |
| RCC | release CONP lock completion transaction |
| RCL | release CONP lock transaction |
| RDS | revoke de-select request transaction |
| RDN | revoke de-select notification transaction |
| RDR | revoke de-energize request transaction |
| ROC | request off-cycle meter read completion transaction |
| ROR | request off-cycle meter read transaction |
| RUC | request update to customer information transaction |
| S1 | initial monthly settlement |
| S2 | interim settlement |
| S3 | final settlement |
| SMC | site metering characteristics transaction |
| SPC | site profile change transaction |
| SPV | settlement profile value transaction |
| SRN | select retailer notification transaction |
| SRO | notify old retailer transaction |
| SRR | select retailer request transaction |
| UCI | update customer information transaction |
| UFG | unaccounted-for gas |
| USA | update site address transaction |
| WSD | wholesale settlement details transaction |
| WSI | wholesale settlement information transaction |
| WSS | wholesale settlement summary transaction |

2 Responsibilities

2.1 Application

All natural gas market participants are required to comply with this AUC Rule 028: *Natural Gas Settlement System Code Rules* (code).

The following responsibilities are identified for load settlement agents (LSAs), distributors and meter data managers (MDMs). These functional distinctions, or others indicated in subsequent sections, identify separate roles, responsibilities and protections in cases where these functions are performed by separate entities. However, in cases where all these functions are performed within the same business entity, these terms are descriptive only, and are not prescriptive of implementation flows within the distributor when acting as LSA for its own customers.

2.2 Settlement responsibility

Generally, this code refers to settlement as being a function of the LSA, but the distributor is either responsible for performing the LSA function or assigning the function to another business entity, with approval from the AUC.

2.3 Profile generation

Development of profiles is an LSA function. This function includes:

- (1) Research sample design and implementation.
- (2) Generation of class profiles based on historical research data.

2.4 Site identification number catalogue

Maintaining the catalogue of site identification numbers (site IDs), LSA identification numbers (LSA IDs) and service addresses are distributor responsibilities. The distributor will provide market participants 30 days' notice of a change in location of the catalogue on its website.

2.5 Responsibility for estimating missing meter readings and consumption amounts

- (1) When any settlement is calculated and an actual cumulative meter read is absent or an actual cumulative meter read is available but daily usage must be calculated using that read, the LSA shall estimate consumption amounts.
- (2) For a site for which there is no prior consumption history, the distributor is responsible for creating the initial estimate of energy consumption in consultation with the retailer. This method applies only to new sites.
- (3) The MDM is responsible for estimating consumption amounts for cumulative meters according to the specific circumstances in Section 9.3.2.

2.6 Losses

- (1) The LSA is responsible for calculating distribution losses and for preparing and filing its annual application for the recovery of losses with the Commission.
- (2) Recovery of losses is in kind through the application of the recovery of the unaccounted-for gas (UFG) percentage to the daily total delivery consumption for each retailer.

2.7 Disclosure and protection

The LSA shall make publicly available (on its website) the procedures and methods used to conduct settlement, including formulas, common parameter values and system-level data. The LSA must also make available, to individual parties, data specific to those parties. The LSA shall not make publicly available data specific to individual parties.

2.8 Retailer of record

The LSA recognizes only one retailer of record for a particular site on a particular day and the LSA will only allocate energy to the retailer of record.

2.9 Estimation and liability for settlement

Responsibility for conducting forecasts, backcast and initial monthly, interim and final settlements (as described in Section 4.3) is part of the distributor's responsibility as the LSA. Distributors are not liable for the financial consequences of errors in estimates developed and provided to interested parties as part of their good-faith performance of these tasks.

2.10 Request for site ID numbers

- (1) Retailers must provide a list of the customer's site IDs with the customer's bill or provide the site IDs in an electronic format to the customer at the time of the customer bill.
- (2) Customer requests for the site ID must be responded to within two business days.

2.11 Timing of meter reads

Times refer to times on the prevailing local clock, standard or daylight time depending on the season, using a 24-hour clock. The hours, minutes and seconds 23:59:59 refer to the second before midnight, and the next second is 00:00:00 of the next day.

Each distributor has the option of reporting the time of day for meter readings as the actual meter read time or as a consistently deemed meter read time between 00:00:00 and 23:59:59 on the date that the meter was read. The same deemed timing will apply to energize and de-energize completions.

2.12 Transition of LSA/MDM/distributor

Any market participant who proposes to cause a change to the party performing the role and responsibilities of an LSA/MDM/distributor must provide written notice to each market participant that may be affected by the change. The written notice must be provided at least 90 calendar days prior to the date that the change is to take place. In addition to the written notice, both the current LSA/MDM/distributor and the new LSA/MDM/distributor designate must jointly submit a transition plan to the AUC at least 60 calendar days prior to the effective date of the change. The transition plan must include the steps and processes to be carried out by the current and designated party to ensure that the transition of role and responsibilities will be done in a reasonable manner and will not disrupt the load settlement processes and other market participants' business processes or disrupt service to customers.

3 Profiling methods

3.1 Profile generation methods

- (1) Acceptable methods:
 - (a) Dynamic estimation from research samples.
 - (b) Class-specific models.
 - (c) Site-specific interval data.
- (2) The above profiling methods apply to profiling classes used for final settlement. The same profiling methods shall be used for all wholesale settlement details transactions (WSDs).

3.2 Segmentation

- (1) Each LSA will specify publicly the existing rate classes for which separate research-based profiles may be provided.
- (2) Procedures for creating new profiling classes may be developed in consultation with stakeholders, including distributors, retailers and consumers.
- (3) Retailers (or other natural gas market participants) will pay for the costs of creating those profiling classes they request.

4 Estimation and settlement calculations

4.1 Unaccounted-for gas (UFG)

UFG will be recovered in kind from each retailer's and default supply provider's account, in the amount equal to the distributor's UFG rate, times the account daily delivery to retailer's and default supply provider's customers, rounded to the nearest gigajoule (GJ). The UFG rate is subject to approval by the Commission.

4.2 Settlement interval

Settlement is required at daily intervals.

4.3 Estimation and settlement timing

4.3.1 General comments

- (1) There are four possible estimation runs for each gas day and three settlement runs for each month. The four estimation runs are: Forecast 1 (F1), Forecast 2 (F2), Forecast 3 (F3) and backcast (B1); the three settlement runs are initial monthly (S1), interim (S2) and final settlement (S3). The specific timing and data requirements for the settlement runs are described below.
- (2) Each initial monthly, interim and final settlement run will use the latest actual usage data that is available. Profiles will be frozen for a month once audited temperature data and residential sample profiles have been loaded. The data load for each month will occur by the fifth business day of the next month. Sites for which a meter reading is not available covering the day to be settled will be estimated for that day.
- (3) LSAs shall publish settlement results only once for each mandated settlement run.
- (4) LSAs may rerun any settlement run.

4.3.2 Estimation runs

Forecast 1 (F1), Forecast 2 (F2) and Forecast 3 (F3) are the first, second and third estimates respectively of a retailer's aggregate consumption for a gas day based on forecast temperatures. Backcast (B1) is the estimate of a retailer's aggregate consumption for a gas day based on actual and forecast temperatures and will be provided each day no later than 08:00. If for any reason backcast is not provided for any given day, the retailer is to use the latest forecast for balancing.

4.3.3 Initial monthly settlement

LSAs will provide initial monthly settlement (S1) results to retailers by 23:59 on the fifth business day after the end of the month being settled.

4.3.4 Interim settlement

LSAs will provide interim settlement (S2) results to retailers by 23:59 on the 15th business day of the second month following the month being settled.

4.3.5 Final settlement

LSAs will provide final settlement (S3) results to retailers by 23:59 on the 15th business day of the fourth calendar month following the month being settled.

4.3.6 Data revisions

Data revisions to date are incorporated at the initial monthly, interim and final settlement runs. No further data changes are incorporated after final settlement. LSAs are not responsible for tracking and storing data versions between initial monthly and interim settlement. If an LSA deems it necessary, a rerun of any settlement run may be undertaken. If a retailer considers a settlement should be rerun, it will indicate this using the pre-final error correction (PFEC) process described in Section 5.2.

4.3.7 Retailer default

In the event that a retailer defaults, the settlement process is not affected by the default. Settlement will still be calculated for the defaulting retailer until final settlement has occurred.

5 Settlement error correction

5.1 General

General and specific procedures for dispute resolution among parties directly affected by settlement calculations pursuant to this code are set out below. These procedures may be used for issues that affect only the parties directly involved in the dispute. Other than as expressly allowed hereunder, no party may opt out of specific requirements and procedures herein pertaining to code-related disputes.

5.2 Pre-final error correction (PFEC)

5.2.1 Scope

- (1) The purpose of the PFEC process is to establish a formal mechanism to correct eligible errors before final settlement and ultimately to improve settlement results before final settlement.
- (2) Errors which are eligible for correction through the PFEC process are settlement-related errors and meter-related errors. Errors which may be addressed through the PFEC process include, but are not limited to:
 - (a) energize/de-energize status errors
 - energize completion transactions (ENCs) ≠ wholesale settlement details transactions (WSDs)
 - de-energize completion transactions (DECs) ≠ WSDs
 - site metering characteristics transactions (SMCs) ≠ ENCs/DECs ≠ WSDs
 - (b) enrolment/de-enrolment errors
 - select retailer notification transactions (SRNs) ≠ WSDs
 - notify old retailer transactions (SROs) ≠ WSDs
 - (c) consumption errors
 - daily cumulative meter consumption transactions (DCMs) ≠ WSDs
 - (d) site characteristics
 - incorrect profiling class assigned in the SRN and/or WSD
 - SRN profiling class ≠ WSD profiling class
- (3) The lack of a meter read shall not be the basis for a PFEC application.
- (4) The LSA will make an effort to ensure a PFEC application is investigated and any error is corrected prior to final settlement.

5.2.2 PFEC process

- (1) A PFEC may be commenced by a retailer or the LSA upon identification of an error and is initiated by the filing of a PFEC application form (see Appendix A, PFEC application form).
- (2) A party other than the LSA who files a PFEC application form is referred to as an applicant.
- (3) Where the applicant identifies an alleged error, the applicant may submit a PFEC application form, with Part 1 completed, to the LSA responsible for the relevant settlement area. The PFEC application form shall be submitted via email, in prescribed format, with

all required information. Additional information may be included or attached as deemed necessary by the applicant.

- (4) Where the LSA identifies an alleged error, the LSA may complete Part 1 of the PFEC application form and may include or attach additional information as it deems necessary.
- (5) Upon receiving or completing Part 1 of a PFEC application form, the LSA shall assign a unique PFEC reference number to the PFEC application form for tracking and processing purposes.
- (6) Within two business days of receiving or completing Part 1 of the PFEC application form, the LSA shall send a notice of receipt or issuance of the PFEC via email to the retailer.
- (7) The PFEC notice of receipt or issuance email shall:
 - (a) provide the PFEC reference number assigned to the PFEC
 - (b) advise whether the LSA or the MDM is conducting the investigation
 - (c) contain the PFEC application form where the retailer is not the applicant
- (8) In the case of meter-related errors, the LSA shall forward for investigation the PFEC application form to the MDM at the same time as it sends the notice as per Section 5.2.2(7).
- (9) Where the MDM receives a PFEC application form and disagrees with the LSA's classification of an error as a meter-related error, the MDM shall return the PFEC application form to the LSA explaining its reasons for disagreement within two business days of receiving it. The LSA shall then conduct an investigation and may request information from the MDM. The MDM shall provide the requested information to the LSA within two business days of receiving a request.
- (10) In the case of settlement-related errors, the LSA shall undertake an investigation.
- (11) Where the LSA finds that Part 1 of the PFEC application form contains deficiencies, such as errors, omissions or incomplete information, and therefore is unable to complete an investigation of the alleged error, the LSA shall advise the retailer via email of the deficiencies within two business days of sending the notice as per Section 5.2.2(7). The investigation may be suspended until the LSA is in receipt of an amended PFEC application form addressing all deficiencies to allow the LSA to perform the investigation.
- (12) The retailer shall, upon being notified of the deficiencies, resubmit the PFEC application form within two business days to the LSA. All deficiencies shall be addressed in the amended PFEC application form which shall include the PFEC reference number originally assigned to it by the LSA as per Section 5.2.2(5).
- (13) Part 1 of the PFEC application form is deemed complete on the date when the LSA receives, to its satisfaction, a PFEC application form with any and all deficiencies addressed.
- (14) The LSA or MDM, as applicable, shall review the PFEC application form and determine if an error exists and how any error may be corrected. Comments regarding its determination shall be provided in Part 2 of the PFEC application form and sent via email to the retailer and to the LSA (if the MDM is performing the investigation).
- (15) Determinations on settlement-related errors shall be issued and all applicable errors shall be corrected within five business days after Part 1 of the PFEC application form is deemed complete by the LSA.
- (16) Determinations on metering-related errors shall be issued and all applicable errors shall be corrected within 20 business days after Part 1 of the PFEC application form is deemed complete by the LSA.

- (17) If the LSA or MDM, as applicable, is unable to meet the deadlines specified in sections 5.2.2(15) and (16), the investigating party must communicate to the retailer the date by which the retailer can expect the corrections to be made. An extension to the deadlines specified in sections 5.2.2(15) and (16) shall not exceed 20 business days.
- (18) Where the MDM is the investigating party and requires an extension of time pursuant to Section 5.2.2(17), it shall also notify the LSA of the date by which the retailer can expect the corrections to be made.
- (19) The LSA shall include any error correction arising from a PFEC application form in the next settlement run.

5.3 Dispute resolution process

5.3.1 Initiation of general dispute resolution

- (1) Each of the parties discharging functions and responsibilities under the code shall designate a contact person within its organization to administer disputes pertaining to code matters; preferably, such person will have authority sufficient to resolve normal-course business disputes. The identity and contact information for each designated person shall be made known to all other relevant parties on an ongoing basis.
- (2) Communications around disputes shall involve those contact persons designated by each of the relevant parties, as set out above. The relevant designated persons shall make their reasonable best efforts to have the dispute handled in a timely and effective manner, involving such other persons within their organization as needed to facilitate resolution efforts on the foregoing basis.
- (3) At such time as any of the parties to a dispute has determined that efforts to resolve the dispute by discussion have failed, that party may at its discretion serve a notice of dispute upon the other parties to the dispute, and upon other affected parties, in accordance with other provisions set out below.
- (4) The notice of dispute shall be as set out in Section 5.3.2(a) below. The notice of dispute will be sent with a cover letter setting out, in the opinion of the originating party, the status of the related dispute and a summary of efforts to resolve the dispute.
- (5) On or about 20 business days, and not later than 30 business days, following the service of the notice of dispute on the other parties, each party to the dispute shall communicate to the AUC in writing a status update on the resolution of the dispute, including efforts taken since the service of the notice of dispute to resolve outstanding issues and further efforts contemplated.

5.3.2 Notice of dispute

- (1) The notice of dispute, as per Section 5.3.1(4), shall be in writing, setting out the following in detail:
 - (a) The basis for the dispute, including a summary of factual basis for dispute, related argument and references to relevant provisions of the code.
 - (b) A statement that the party filing the notice of dispute agrees to abide by the dispute resolution process set out in the code in relation to notice of dispute matters.
 - (c) The names and addresses of parties to whom the notice of dispute is being delivered.
 - (d) The contact address, including street address, telephone and fax numbers, and contact person for the purposes of notice of dispute.
- (2) The notice of dispute may also include such other supporting documentation as the disputing party deems necessary.

- (3) The notice of dispute must be signed by the party submitting it; in the case of a corporation, partnership or other organization, the notice of dispute must be signed by a duly authorized representative of the disputing party.
- (4) The notice of dispute may be rejected by the LSA and considered closed where it does not include the information required by sections 5.3.2(1)(a) through (d) inclusive, or is not duly signed.
- (5) The notice of dispute must be delivered in person, by registered mail, email or facsimile transmission, or by some other means of provable delivery, to the LSA and to any other parties directly affected by the matters of the notice of dispute. The notice of dispute shall also be concurrently delivered to the AUC. Onus for proof of service of the notice of dispute on the LSA, AUC and other relevant parties rests with the party filing such notice of dispute.
- (6) Where a notice of dispute has been rejected by the LSA pursuant to Section 5.3.2(4), the LSA shall, in writing, advise the party who filed the notice of dispute, the AUC and all other parties shown on the notice of dispute, of its rejection and of the reasons for such rejection immediately.

5.3.3 Discussions and negotiations between the parties with the option to include mediation

- (1) Upon delivery of a notice of dispute in prescribed form and content, the relevant parties, including the disputing party, the LSA (or other investigating party), and other affected parties, shall attempt to resolve the dispute through discussion and negotiation.
- (2) Mediation may be entered into by the parties on such terms and conditions and involving such mediator as the relevant parties may agree to. The costs of the mediation shall be shared between the parties as agreed.
- (3) Only the parties and their representatives may attend mediation proceedings unless the parties and the mediator (as applicable) agree to the participation of other specified parties. Unless otherwise agreed by all parties, the discussions, negotiations and mediation between the parties in relation to the notice of dispute shall be conducted on a confidential and without prejudice basis to encourage open dialogue between the parties.
- (4) All information disclosed to the mediator by the parties or others in the course of mediation and identified as confidential will not be divulged by the mediator except within the mediation. All documents received by the mediator in the mediation shall be held confidential by the mediator, and the mediator shall not be compelled by any party to divulge such documents or to act as a witness in regard to the mediation in any subsequent proceedings of any nature.
- (5) Where the negotiations or mediation result in an agreement between parties, a copy of the executed agreement shall be filed with the Commission for approval before implementation. Parties must also provide the Commission with a copy of the documentation prepared pursuant to Section 5.3.2 along with a summary outlining the material terms of the agreement.

5.3.4 Dispute brought forward to the Commission

- (1) After the expiry of 20 business days immediately following the delivery of the notice of dispute to the LSA and other relevant parties, any unresolved disputes under Section 5.3.3 or any agreements that are not approved by the AUC under Section 5.3.3(5), shall be referred to the Commission for resolution in the form of an application to the Commission for a decision on the dispute.

6 Functional requirements of the settlement calculation

The sections below define the required inputs and outputs of settlement. These sections do not dictate how settlement algorithms or calculations should be implemented. Any implementation approach that produces outputs mathematically equivalent to the outputs defined below is acceptable.

6.1 Profile freeze dates

Class profiles for a settlement month are frozen once audited temperatures and research sample data have been loaded into the settlement system for that month. This will occur prior to the running of the initial monthly settlement (S1). Once the profiles have been calculated using the above specified data, they are frozen and will not be recalculated on subsequent settlement runs.

6.2 Assumptions

These calculation formulas assume that:

- (1) Switch of a retailer will not necessarily be accompanied by a meter read on the same day.
- (2) There are missing cumulative meter read consumption values in the settlement input database due to variations in cumulative meter reading frequency.

6.3 Settlement inputs and outputs

(1) Inputs

(a) Inputs to the settlement system include the following:

(i) Information on each site to be settled, including:

- retailer enrolment information, energized status and other daily site attributes
- site-level consumption information (DCMs)
- daily usage information for demand-metered sites

(ii) Profile data (model coefficients and variables, and research samples).

(iii) Daily weather data: forecast, actual and audited.

(b) The standard external transactions, as described in Section 8, identify the critical information that must be transferred between external parties to support the settlement process. Individual LSAs may require additional inputs to support their specific methods of performing the settlement function.

(2) Outputs

The standard external transactions, as described in Section 8, identify the critical information that must be transferred between external parties to support the settlement process.

6.4 Required settlement reports

Settlement data will be reported to each retailer through the wholesale settlement information transaction (WSI), WSD and wholesale settlement summary transaction (WSS). WSI transactions contain retailers' site consumption for each day summed by distribution zone. The WSD transactions contain daily usage for each site by day for all sites enrolled. The WSS transactions contain monthly aggregated consumption by retailer and distribution zone. Each retailer will receive WSD, WSI and WSS files specific to its enrolled sites.

7 Information exchange

7.1 Business transactions

- (1) The transaction sets required to support settlement processes are listed in Table 1. Transactions sets for which standard content or electronic transmittal is required are indicated by checkmarks in the third and fourth columns of the table, respectively. Universal standards for electronic and standard content transactions as well as detailed transaction content are provided in Section 8.
- (2) The transaction standards are required for data exchange between separate organizations or companies. However, where separate functions are performed by different parts of the same organization, such as MDM and LSA functions within the distributor, adherence to these transmittal standards is not required for transactions between these functional areas. Adherence to the standards is required for transactions between the bundled organization and any external parties.

Table 1. Business process flows and transaction sets required for settlement

| Transaction set | Transaction | Standard content required? | Electronic transmittal required? |
|---|--|----------------------------|----------------------------------|
| Select retailer transaction set | | | |
| | A. Select retailer request (SRR) | ü | ü |
| | B. Select retailer notification (SRN) | ü | ü |
| | C. Notify old retailer (SRO) | ü | ü |
| Update customer information transaction set | | | |
| | A. Update customer information (UCI) | ü | ü |
| | B. Request update customer information (RUC) | ü | ü |
| Energize site transaction set | | | |
| | A. Energize request (ENR) | ü | ü |
| | B. Energize failure (ENF) | ü | ü |
| | C. Energize completion (ENC) | ü | ü |
| De-energize site transaction set | | | |
| | A. De-energize request (DER) | ü | ü |
| | B. De-energize failure (DEF) | ü | ü |
| | C. De-energize completion (DEC) | ü | ü |
| | D. Revoke de-energize request (RDR) | ü | |
| | E. Release CONP lock (RCL) | ü | ü |
| | F. Release CONP lock completion (RCC) | ü | ü |
| Request off-cycle meter read transaction set | | | |
| | A. Request off-cycle meter read (ROR) | ü | ü |
| | B. Request off-cycle meter read completion (ROC) | ü | ü |
| De-select retailer transaction set | | | |
| | A. De-select request (DSR) | ü | ü |
| | B. De-select notification (DSN) | ü | ü |
| | C. Revoke de-select request (RDS) | ü | ü |
| | D. Revoke de-select notification (RDN) | ü | ü |
| Update site information transaction set | | | |
| | A. Update site address (USA) | ü | ü |
| | B. Site metering characteristics (SMC) | ü | ü |
| | C. Site profile change (SPC) | ü | ü |
| Provide consumption data | | | |
| | A. Daily cumulative meter consumption (DCM) | ü | ü |

| Transaction set | Transaction | Standard content required? | Electronic transmittal required? |
|-----------------|-------------|----------------------------|----------------------------------|
|-----------------|-------------|----------------------------|----------------------------------|

Provide wholesale settlement data transaction set

| | | |
|---|---|---|
| A. Wholesale settlement information (WSI) | ü | ü |
| B. Wholesale settlement summary (WSS) | ü | ü |
| C. Wholesale settlement details (WSD) | ü | ü |
| D. Settlement profile value (SPV) | ü | ü |

7.2 Transaction transport method

- (1) The Internet is the transport mechanism for electronic data exchange.
- (2) Each participant must exchange data securely in files formatted using comma separated values (CSV format).
- (3) Appendix B identifies the current transport mechanism used by natural gas market participants.

7.3 Enrolment mechanics

- (1) Sites can switch retailers no more than once per day. All site switches occur at midnight.
- (2) The first switch request received by a distributor and made effective for a site for a particular day determines the site assignment from that day until the next effective switch. For example, if a switch request for the same site is received on the same day at 13:00 from retailer one and at 14:00 from retailer two, retailer one is assigned the site effective on the next day.
- (3) The retailer shall manage the enrolment queue and shall send the enrolment request transactions to the LSA only on the calendar day prior to the desired effective date.
- (4) Enrolments can occur on any calendar day, regardless of holidays or non-working days.
- (5) All enrolment requests shall be processed to be effective at midnight following the receipt of a valid enrolment request. For example, if the enrolment is received at 23:00 on July 21, the enrolment, provided the transaction is valid, will be effective at 00:00 on July 22, one hour later.
- (6) The LSA shall process enrolment requests on the day of receipt as follows:

Notification of a site switch shall be provided to the new retailer, the retailer of record on the day preceding the switch, the distributor and the MDM in accordance with the following:

- (a) Ninety per cent of the enrolment requests received between 07:00 and 15:00 each day will be responded to within two hours, with the remaining 10 per cent being responded to within four hours. This standard shall be based on the total number of enrolment requests received by each LSA from all retailers on a calendar day basis.
- (b) If an enrolment request is received after 15:00, there is no guarantee of notification prior to 09:00 the following day. The enrolment request will still be processed by the LSA.
- (c) An exception to the performance standard stated in subsection (a) above shall be permitted for scheduled maintenance or for other reasons that are specifically approved by the AUC, not to exceed two non-consecutive calendar days per calendar month.

(7) Erroneous enrolment

An erroneous enrolment arises when one of the following situations occurs prior to enrolment:

- (i) site ID and service address mismatch
 - (ii) incorrect information is provided by customer, applicant or any other party
 - (iii) error by the distributor or the retailer or its agent
- (a) When a retailer identifies that an erroneous enrolment has occurred, that retailer shall notify the LSA of the error within one business day of the discovery of the error.
 - (b) When the LSA discovers that a retailer has potentially erroneously enrolled a site, the LSA shall provide notification simultaneously to both retailers affected, including the retailer that has potentially erroneously enrolled a site and the previous retailer, within one business day of the discovery of the potential error. The retailer that has potentially erroneously enrolled a site shall investigate whether the site ID or service address was erroneously enrolled and respond simultaneously to the LSA and to the other affected retailer within five business days, confirming or denying that the site was erroneously enrolled.
 - (c) The LSA shall confirm the receipt of the notification given in accordance with Section 7.3(7)(a) above or the confirmation received from the retailer in accordance with Section 7.3(7)(b) above.
 - (d) The LSA shall contact the previous retailer within one business day from the receipt of the notification (a) or confirmation (b) from the retailer responsible for the erroneous enrolment.
 - (e) The previous retailer shall re-enrol the site within two business days from the date of notification from the LSA.
 - (f) Compliance with subsection (a) or (b) above does not preclude the retailer from de-selecting the site at any time during this process.

7.4 Changes in profiling class

- (1) If the LSA changes a site's profiling class, the LSA must notify the retailer. The LSA shall make a best effort to provide the notification in advance of the profiling class change. However, the LSA will not attempt to synchronize the notification with enrolment. The means of notification is the site profile change transaction (SPC).
- (2) For changes in profiling class in response to a retailer request, no standard transaction is required either for receiving the request or notifying the retailer of the change.

7.5 Site ID removal from site catalogue

When a site ID is removed from the catalogue, the distributor shall:

- (1) Notify the retailer that it is no longer the retailer of record for that site using the notify old retailer transaction (SRO) as per Section 8.6.3.3.
- (2) Ensure that the site ID can no longer be enrolled.
- (3) Ensure that the site ID will not be reused.

8 Information exchange standards

8.1 Purpose

- (1) The purpose of this Section 8 is to define the electronic and non-electronic information exchange standards for the business transactions. In addition to defining the format and contents of each transaction, universal standards that govern all transactions are specified.
- (2) The standards are intended to be as specific as practical to facilitate data exchange among natural gas market participants. At the same time, it may turn out in the course of system implementation that certain details require adjustment for practical reasons. These specifications may be revised if the need for such adjustment becomes clear.

8.2 Scope

The scope of this documentation is limited to the electronic and standard content transactions in Table 1 of Section 7.

8.3 Revisions

Revisions to these information exchange standards, including both additions and changes, may be made by the Commission in consultation with stakeholders.

8.4 Universal standards

8.4.1 Directory structure

The directory structure for the electronic files is dependent upon the transaction transport method.

8.4.2 File naming convention

- (1) All transactions of the same type for a period (usually one day) are to be placed in a single CSV format file. The standard file naming convention is:

TRX_From_To_YYYYMMDDHHMISS.CSV or
TRX_From_To_YYYYMMDDHHMISS.csv

where,

| | |
|----------|---|
| TRX | Three-letter abbreviation for the transaction name (e.g. “SRR”). The three letters must be in upper case format. |
| From | ID of the sender, either distributor ID, retailer ID or settlement ID. |
| To | ID of the receiver, either distributor ID, retailer ID or settlement ID. |
| YYYYMMDD | Date the file was created. |
| HHMISS | Time the file was created on a 24-hour clock. |

- (2) In the case where the file has no single recipient, such as the settlement profile value transaction (SPV), the “To_” may be omitted from the file name. The file name would be as follows:

TRX_From_YYYYMMDDHHMISS.CSV or
TRX_From_YYYYMMDDHHMISS.csv

- (3) For transactions with the Transaction Status Code field populated, a rejected file may be returned to the original sender to notify the sender of any errors in individual transactions. The rejected file would be returned using the file name under which it was received, with an “R” appended at the end of the file name before the .CSV or .csv.

8.4.3 Universal transaction contents

All transactions contain the following field or elements:

- (1) Transaction abbreviation (three-character abbreviation that must be in upper case letters).
- (2) Identification of the sender (retailer ID, distributor ID or LSA ID).
- (3) Identification of the recipient (retailer ID, distributor ID or LSA ID).
- (4) Transaction date and time (the Transaction Date Time field in all transactions contains the later of the time the transaction was created or last modified).

8.4.4 Optional fields

The optional fields specified in the electronic transactions are applicable to both the sender and receiver. Either the sender or the receiver may choose to use them unless otherwise specified.

8.4.5 Data-type definitions

8.4.5.1 Char(x)

Fixed-length character always x characters in length.

“ABC” is an example of Char(3).

8.4.5.2 Varchar(x)

x designates the maximum number of characters.

“A” and “ABC” are both examples of Varchar(3).

8.4.5.3 Number(p,s)

Number with p digits of precision and s digits to the right of the decimal (scale).

“123456.78” is an example of Number(8,2).

8.4.6 Standard fields

This section contains common fields that may appear in many transactions.

8.4.6.1 Date and date time format

The standard date time format has been defined as:

YYYYMMDDHHMISS

where,

YYYY four-digit year (e.g. 1999)

MM two-digit numeric month between 01 and 12 inclusive (e.g. 09)

DD two-digit numeric day between 01 and 31 inclusive (e.g. 03)

HH hour on a 24-hour clock 00 to 23 (e.g. 22)

MI minutes 00 to 59 (e.g. 02)

SS seconds 00 to 59 (e.g. 09)

For example, 19990903220209 is September 3, 1999 at nine seconds after 10:02 p.m.

The standard date format has been defined as:

YYYYMMDD

where,

YYYY four-digit year (e.g. 1999)

MM two-digit numeric month between 01 and 12 inclusive (e.g. 09)

DD two-digit numeric day between 01 and 31 inclusive (e.g. 03)

For example, 19990903 is September 3, 1999.

8.4.6.2 Telephone number format

The standard telephone format used for telephone numbers in Canada and the United States has been defined as:

AAANNNNNNNXXXX

where:

AAA area code used in Canada and the United States

NNNNNNN telephone number

XXXX extension (if any)

8.4.6.3 Time conventions

(1) Clock time

Times refer to times on the prevailing local clock, standard or daylight time depending on the season.

(2) Adjusting for daylight saving

For determining the start and end of the gas day, there is no adjustment for daylight saving. The gas day always starts at 08:00 Mountain Standard Time. During the period of daylight saving, therefore, the start of the gas day is at 09:00 Mountain Daylight Time (i.e. 08:00 Mountain Standard Time).

8.4.6.4 ID assignments

A unique ID will be set up for each business function within the distributor. The distributor will have a three-digit number ID prefixed with a "0"; the LSA will have a three-digit number ID prefixed with a "1"; and the MDM will have a three-digit number ID prefixed with a "2."

8.4.6.5 Retailer and business function IDs

(1) Retailer ID

The retailer ID is a nine-digit number that uniquely represents each retailer operating within Alberta (e.g. 123456789).

(2) Business function ID

Business function ID codes and processing rules must be interoperable. Business rules may vary from participant to participant. While failures may result from business rule violations, transactions should not fail due to implementation logic. If the business function ID field is not used by the LSA, it may be ignored when received in transactions from a retailer, but a file may not be rejected for this reason. The business function ID codes are shown in Appendix A.

8.4.6.6 Distributor ID

(1) A four-digit number uniquely represents each distributor operating within Alberta to which Rule 028 is applicable.

Refer to the distributor ID table in Appendix A.

8.4.6.7 Load settlement agent (LSA) ID

(1) A four-digit number uniquely represents each LSA operating within Alberta.

(2) The LSA ID is required in transactions as a verification check for the LSA. The LSA will only process files where the LSA ID is equal to its own.

Refer to the LSA ID table in Appendix A.

8.4.6.8 Meter data manager (MDM) ID

(1) A four-digit number uniquely represents each meter data management company operating within Alberta.

(2) The MDM ID is required on transactions to inform the receiver of the data the party responsible for reading the meter. This becomes important in zones that have multiple MDMs or in the case where an LSA is settling multiple zones.

Refer to the MDM ID table in Appendix A.

8.4.6.9 Zone ID

A four-digit number uniquely represents each gas distribution zone. The ID is assigned by the LSA. Refer to the Zone ID table in Appendix A.

8.4.6.10 Site ID

(1) A site ID possesses the following characteristics:

- (a) A site ID can be enrolled by a retailer.
- (b) Consumption is allocated at the site ID.
- (c) Settlement occurs at the level of site ID.

- (2) A check digit is required to minimize the possibility of entering an incorrect site ID (for example, transposition errors on the part of the retailer). This check digit is a calculated number placed into the site ID.
- (3) In the event the distributor for a site changes, the first four digits of the site ID must be changed to reflect the new distributor ID. In this situation, the distributor also has the option of changing the entire site ID.
- (4) Site ID format:

GasdistributorID99999999Chk

where,

| | |
|----------------|--|
| Distributor ID | Distributor ID (e.g. 0001). |
| 99999999 | Eight numbers identifying a site, and each distributor can administer as they see fit. |
| Chk | Single check digit formed by dividing the total of the prior numbers by nine and determining the remainder. The remainder is used as the check digit, having a value between zero and eight. |

- (5) Check digit calculation example:

Sum the following numbers:

Digit 1 (left to right) of the Site ID x 1
 Digit 2 (left to right) of the Site ID x 2
 Digit 3 (left to right) of the Site ID x 3
 ...
 Digit 12 (left to right) of the Site ID x 12

Using a sample of 001085434216

The check digit is

| | |
|-----|------|
| 0 | 1x0 |
| 0 | 2x0 |
| 3 | 3x1 |
| 0 | 4x0 |
| ... | |
| 40 | 5x8 |
| 30 | 6x5 |
| 28 | 7x4 |
| ... | |
| 24 | 8x3 |
| 36 | 9x4 |
| 20 | 10x2 |
| 11 | 11x1 |
| 72 | 12x6 |

264

264 / 9 remainder 3

Check digit = 3

Full number is 0010854342163

8.4.6.11 Socket ID

A site ID may have multiple meters associated with it. When this occurs, a socket ID number is assigned to the individual measurement points that combined make up the site.

The socket ID is an eight-digit number.

8.4.6.12 Site ID catalogue transaction (SID) — process rules and content

- (1) The SID is an electronic file in CSV format. No commas are permitted within a field.
- (2) Abbreviations used in addressing schemes follow the English-language version of Canada Post standards.
- (3) The SID file is to be refreshed weekly at a minimum.
- (4) Transport/delivery is at the discretion of each distributor.
- (5) Distributors have an obligation to provide a site ID and location information for all sites to which they provide delivery services in the SID file format. Requests for site IDs that are not in the site ID catalogue must be responded to by the distributor by the end of the next business day.
- (6) A distributor may use multiple methods to identify a location, but at least one of the addressing schemes must be populated in enough detail so as to disclose the location of the site. For example, if an apartment number exists as a part of the urban addressing scheme, it is required to be provided. That is, a distributor may choose the urban addressing scheme, the rural addressing scheme, or the legal addressing scheme, and must provide all of the information within that scheme that is normally required to identify the site's location. If information is available to populate more than one addressing scheme for the same site, distributors may do so.

Table 2. Site ID catalogue transaction (SID)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|--|
| 1 | Transaction Abbreviation | "SID" | Mandatory field -Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field -Later of the time the transaction was created or last modified. |
| 3 | MDM ID | MDM ID format | Mandatory field - MDM responsible for reading the meter. See Appendix A, Table A-5. |
| 4 | Distributor ID | Distributor ID format | Mandatory field - Sender (distributor for the site). See Appendix A, Table A-3. |
| 5 | LSA ID | LSA ID format | Mandatory field - LSA responsible for settling the energy consumption within the zone. See Appendix A, Table A-4. |
| 6 | Site ID | Site ID format | Mandatory field - Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Municipality | Varchar(50) | Mandatory field -Name of the municipal entity to which franchise fees apply for the site. |
| 8 | Unit Definer | Varchar(15) | Conditional field – Required if it exists in the distributor service address. Used to define individual units where no unit number exists, e.g. "Back," "Basement." |
| 9 | Unit Number | Varchar(6) | Conditional field – Required if it exists in the distributor's service address. Apartment number, etc. |
| 10 | House Number | Varchar(6) | Conditional field – Required if it exists in the distributor's service address. |

| Sequence | Field | Data type/size | Description |
|----------|------------------------------|----------------|---|
| 11 | Street Pre-Direction | Varchar(2) | Conditional field – Required if it exists in the distributor's service address. Standard direction codes (N, W, SW, etc.) which appear in front of the street name, e.g. "W Georgia ST" |
| 12 | Street Name | Varchar(50) | Conditional field – Required if it exists in the distributor's service address. If street name is a number, include the digit, not the spelled out name. |
| 13 | Street Type Code | Varchar(8) | Conditional field – Required if it exists in the distributor's service address. Valid Canada Post codes are required. |
| 14 | Street Direction | Varchar(2) | Conditional field – Required if it exists in the distributor's service address. Standard direction codes (N, W, SW, etc.) which appear after the street name, e.g. "Millwoods RD W." |
| 15 | City Quadrant | Varchar(2) | Conditional field – Required if it exists in the distributor's service address. Standard direction codes (N, W, SW, etc.) which designate a quadrant of a city. |
| 16 | City/Town Name | Varchar(30) | Conditional field – Required if it exists in the distributor's service address. Usual name of the city, town, village, etc. |
| 17 | Legal Subdivision Code (LSD) | Varchar(2) | Conditional field – Required if it exists in the distributor's service address. Sections are divided into four quarters or into 16 legal subdivisions. They are numbered from 1 to 16. |
| 18 | LSD Quadrant | Varchar(1) | Conditional field – Required if it exists in the distributor's service address. LSDs are divided into four quadrants: A,B, C and D. |
| 19 | Quarter Section Code | Varchar(2) | Conditional field – Required if it exists in the distributor's service address. Quarters divide each section into four parts: NE, NW, SE, SW. This field may optionally be used for: "RL" – River lot "SL" – Settlement lot or "SV" – Summer village. |
| 20 | Lot | Varchar(6) | Conditional field – Required if it exists in the distributor's service address. A lot number to identify a lot within a Quarter Section Code (of RL, SL or SV). |
| 21 | Section | Number(2) | Conditional field – Required if it exists in the distributor's service address. Sections are divided into four quarters or into 16 legal subdivisions. They are numbered from 1 to 36. |
| 22 | Township | Number(3) | Conditional field – Required if it exists in the distributor's service address. Townships are numbered from south to north starting at the U.S. border. They are numbered from 1 to 129 and 141. Each township is six miles (~10 kilometres) wide. |
| 23 | Range | Number(2) | Conditional field – Required if it exists in the distributor's service address. Ranges are numbered from east to west starting from each meridian. They are numbered 1 to 34. Each range is six miles (~10 kilometres) wide. |
| 24 | Meridian | Varchar(1) | Conditional field – Required if it exists in the distributor's service address. A meridian defines a block of land between an east and west boundary. For Alberta, the meridian may be 4, 5, 6 with 4 being the Saskatchewan border, 5 running just east of the Calgary International Airport and 6 being just east of Jasper. The "W" is implied. |
| 25 | Rural House Number | Varchar(4) | Conditional field – Required if it exists in the distributor's service address. This is sometimes used in First Nations Reserves to identify unique residences within the rural scheme. |
| 26 | Lot | Varchar(6) | Conditional field – Required if it exists in the distributor's service address. Defines a lot within a city block. |
| 27 | Lot Range ID | Varchar(5) | Conditional field – Required if it exists in the distributor's service address. |
| 28 | Block | Varchar(5) | Conditional field – Required if it exists in the distributor's service address. Defines a city block within a plan. |
| 29 | Government Plan ID | Varchar(8) | Conditional field – Required if it exists in the distributor's service address. For urban areas, a registered plan defines an area within a city, usually a community or legal subdivision. |
| 30 | Area Name | Varchar(30) | Optional field – Populated at sender's discretion. Oilfield name, subdivision name, etc. |
| 31 | Cluster Correlation Key | Number(13) | Optional field – Populated at sender's discretion. Identifies a grouping of sites which are normally handled jointly with regards to enrolment. |

| Sequence | Field | Data type/size | Description |
|----------|---------------------------|----------------|---|
| 32 | Unformatted Address | Varchar(65) | Optional field –Populated at sender’s discretion. Address information that does not fit Canada Post standard rules. |
| 33 | Site Reference | Varchar(50) | Optional field –Populated at sender’s discretion. Additional helpful information. |
| 34 | Micro-generator Indicator | Char (1) | Mandatory field – Value is: "N" |
| 35 | Tariff Rate Code | Varchar(20) | Conditional field – If the tariff rate code exists, this field is mandatory. Distributor’s tariff rate code for the site. |
| 36 | Meter Number | Varchar(20) | Conditional field – If the site has a meter installed, this field is mandatory; otherwise this field is [null]. Identifies the meter number currently at the site. If the site has multiple meters, use the primary meter number to identify the site. |

8.5 Transaction principles

8.5.1 Rejected by transaction not by file

Only transactions that fail validation are rejected, not the entire file. The sender is notified by reason code for each failed transaction. If the file is corrupted, the complete file will be rejected. The receiver will notify the sender of problems on a per transaction basis as soon as practical.

8.5.2 No header information

To simplify file loading procedures, transaction files are to be defined without header information.

8.5.3 Transaction will not contain additional fields for custom use

To keep the transactions standard, fields can only be added or removed if approved by the Commission in consultation with stakeholders.

8.5.4 Transactions will not contain descriptive fields

- (1) To prevent potential misuse and to limit the complexity of transaction creation, descriptive fields are not allowed. For example, field “Other Reject Reason Description – Varchar(80)” is not allowed.
- (2) The following transactions and specific fields are exempt from this principle:
 - (a) ENR - Message to Distributor field.
 - (b) DER - Message to Distributor field.
 - (c) ROR - Meter Access Instructions field.
 - (d) ROC - Off-cycle Incomplete Reason field.

8.5.5 Transaction file contents

No more than one transaction type will be contained in a file.

8.6 Provincial standard transactions

The following transactions are standard in content, packaging and delivery method. They must be delivered in CSV format via the Internet. Additional delivery methods may be built as long as this method is supported.

8.6.1 Provide current consumption data from MDM

Retailers are to receive metering data at the site level, unless they have a bilateral agreement with the MDM to provide the totalized data at the socket level. Settlement settles at the site level and is to receive the metering data at the site level.

8.6.1.1 Daily cumulative meter consumption transaction (DCM) – process rules and content

(1) DCM date time usage:

- (a) The Transaction Date Time field of the DCM shall be populated with the later of the time the transaction was created and the time it was last modified.
- (b) The Current Reading Date Time field of the DCM shall be populated with actual or deemed values, at the discretion of the MDM. If a deemed value is used, the date shall be the date the meter was actually read.
- (c) The Last Reading Date Time field of the DCM must be identical to the Current Reading Date Time field of the prior DCM for the same site except when the energize status of a site has changed.
- (d) There must be a difference between the Last Reading Date Time field of a DCM and the Current Reading Date Time field of the same DCM.
- (e) Gaps between the Last Reading Date Time field of a DCM and the Current Reading Date Time field of the prior DCM are only permitted when a site is in a de-energized state.
- (f) The Last Meter Dial Reading field of a DCM must be identical to the Current Meter Dial Reading field from the prior DCM, when the meter is unchanged.

(2) DCM rejection rules

(a) Tests

Notwithstanding file or format errors, an LSA may only reject a DCM record on the basis of:

- (i) overlaps
- (ii) negative usage

(b) Rejection process

(i) LSA overlaps and negative usage errors

- When the LSA rejects a DCM due to the conditions identified in Section 8.6.1.1(2)(a), the LSA shall notify the MDM within two business days of excluding the DCM from settlement.

- Only the records rejected on the basis of file or format errors will be returned using the same file name under which it was received but with an appended “R.” Each rejected record will contain the reason for the rejection of that record in the Transaction Status Code field.
- When a DCM is rejected and the rejection reason in the Transaction Status Code field is for one of the tests in Section 8.6.1.1(2)(a), the MDM shall send a cancel DCM as per Section 8.6.1.1(3) within one business day to the LSA and retailers.

(ii) Retailer rejection process for content errors

- Retailers shall notify the LSA for all errors other than file or format errors.

(3) DCM cancellation

(a) Single DCM cancellation

- (i) The MDM will indicate specifically which record to cancel by sending a cancellation DCM indicated by “CA” in the Record Status field. All cancellation DCM fields should match exactly to the DCM to be cancelled except for the following fields:

- Transaction Date Time
- Record Status
- Transaction Status Code

- (ii) Records with a “CA” status should appear first in every file.

- (iii) A DCM that is generated from two valid meter reads shall not be cancelled and replaced after final settlement unless one of the two meter reads that feed into the DCM is considered invalid according to Measurement Canada’s guidelines.

(b) Multi-DCM cancellation

- (i) Multi-DCM cancellation will be used at the discretion of the MDM, where a single DCM cancellation may not resolve the issue.
- (ii) Multi-DCM cancellation will only be used for replacement of data for a specific site, and not for multiple sites.
- (iii) Where a site is made up of multiple sockets, all are cancelled and replaced as stated above.

(c) DCM status flags

Refer to Table A-7 DCM status flag codes in Appendix A.

(4) DCM provision during retailer switch

Where no meter reading exists at the time a site with a cumulative meter switches retailers, the MDM shall provide the next actual meter read that becomes available to all retailers that served the site since the previous actual meter read.

Table 3. Daily cumulative meter consumption transaction (DCM)

| Sequence | Field | Data type/size | Description |
|----------|----------------------------|--------------------|--|
| 1 | Transaction Abbreviation | "DCM" | Mandatory field - Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field - Later of the time the transaction was created or last modified. |
| 3 | MDM ID | MDM ID format | Mandatory field - Sender (MDM responsible for reading the meter). See Appendix A, Table A-5. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Business Function ID | Varchar(2) | Optional Field - Populated at sender's discretion. See Appendix A, Table A-2. |
| 6 | LSA ID | LSA ID format | Mandatory field - Recipient (LSA responsible for settling the energy consumption within the zone). See Appendix A, Table A-4. |
| 7 | Site ID | Site ID format | Mandatory field - Unique identifier representing a site. See Section 8.4.6.10. |
| 8 | Socket ID | Socket ID format | Optional field - Populated at sender's discretion. See Section 8.4.6.11. |
| 9 | Meter Number | Varchar(20) | Conditional field – Required if the site has a meter; otherwise this field is [null]. Identifies the meter number currently at the site. If the site has multiple meters, use the primary meter to identify the site. |
| 10 | Energy Usage | Number(12,4) | Mandatory field - GJ consumption for period. |
| 11 | | [null] | Not used for gas. |
| 12 | Measured Demand | Number(8,2) | Conditional field – Highest 24-hour energy consumption within the reading period if required by the profiling class; otherwise this field is [null]. |
| 13 | Last Reading Date Time | Date time format | Mandatory field - Date and time of the last reading. |
| 14 | Current Reading Date Time | Date time format | Mandatory field - Date and time of the current reading. |
| 15 | Last Meter Dial Reading | Number(10) | Conditional field – Required if the site has a meter; otherwise this field is [null]. The previous dial reading taken from the meter. |
| 16 | Current Meter Dial Reading | Number(10) | Conditional field – Required if the site has a meter; otherwise this field is [null]. The current dial reading taken from the meter. |
| 17 | | [null] | Not used for gas. |
| 18 | | [null] | Not used for gas. |
| 19 | Billing Multiplier | Number(14,9) | Conditional field – Required if the site has a meter; otherwise this field is [null]. Billing multiplier used to convert the readings to usage. |
| 20 | Consumption Status | Char(2) | Mandatory field - Describes the type of meter reading. See Appendix A, Table A-7. |
| 21 | | [null] | Not used for gas. |
| 22 | Demand Status | Char(2) | Conditional field – Required if the site has a meter that measures demand; otherwise this field is [null]. Describes the type of meter reading. See Appendix A, Table A-7. |
| 23 | Record Status | Char(2) | Conditional field – If the meter reading is being cancelled this field is mandatory. "CA" – Cancelled. This code indicates that the receiver should cancel their version of this exact record. Sending this record eliminates confusion over the replacement record, especially when the replacement record may not cover the same period as this cancelled record. |
| 24 | Transaction Status Code | Char(4) | Conditional field – If the transaction is being sent by the MDM, this field is [null]; otherwise this field is mandatory when a retailer or the LSA is sending the transaction to notify the MDM of problems with the transaction. Applicable transaction status codes in Appendix A, Table A-8 must be used. |

8.6.2 Wholesale settlement data transfers

8.6.2.1 Wholesale settlement information transaction (WSI) — process rules and content

(1) WSIs that are sent to retailers are sent to the specific retailers only.

Table 4. Wholesale settlement information transaction (WSI)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------------|--------------------|---|
| 1 | Transaction Abbreviation | "WSI" | Mandatory field - Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field - Later of the time the transaction was created or last modified. |
| 3 | LSA ID | LSA ID format | Mandatory field - Sender (LSA responsible for settling the load within the zone). See Appendix A, Table A-4. |
| 4 | | [null] | Not used for gas. |
| 5 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 6 | Business Function ID | Varchar(2) | Optional field – Populated at sender’s discretion. See Appendix A, Table A-2. |
| 7 | Zone ID | Zone ID format | Mandatory field – Gas distribution zone. See Appendix A, Table A-6. |
| 8 | | [null] | Not used for gas. |
| 9 | Settlement Run Date Time | Date time format | Mandatory field – Date and time settlement was initiated. This date does not indicate which data was used by the settlement run. |
| 10 | Settlement As At Date Time | Date time format | Mandatory field – Date and time that all data used by this settlement run was in the settlement system. Supports reproducibility of settlement at a later time than the original settlement run. This allows the same data to be used regardless of how many times a run is performed. |
| 11 | Settlement Type | Char(2) | Mandatory field – "F1," "F2," "F3," "B1," "S1," "S2" or "S3" for Forecast 1, Forecast 2, Forecast 3, backcast, initial monthly, interim or final settlement runs respectively. |
| 12 | Audited Temperature End Date | Date time format | Mandatory field – The audited temperature date at the time of the settlement run. |
| 13 | Settlement Interval Start Time | Date time format | Mandatory field – Date and start time of the interval the settlement data is for. This will be the start of the gas day at 08:00 standard time. |
| 14 | Interval Period | Number(4) | Mandatory field – "1440" for number of minutes in the gas day. |
| 15 | | [null] | Not used for gas. |
| 16 | Retailer Usage Total (GJs) | Number(12,4) | Mandatory field – Total of the consumption for all of the retailer’s sites in the distribution zone for the interval. |
| 17 | | [null] | Not used for gas. |
| 18 | | [null] | Not used for gas. |
| 19 | | [null] | Not used for gas. |
| 20 | | [null] | Not used for gas. |

8.6.2.2 Wholesale settlement summary transaction (WSS) — process rules and content

- (1) The WSS is a control report, providing a monthly summation. The WSS is sent in conjunction with the initial monthly (S1), interim (S2) and final settlement (S3) WSI transactions.
- (2) Transactions that are sent to retailers are sent to the specific retailers only.

Table 5. Wholesale settlement summary transaction (WSS)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|--------------------|---|
| 1 | Transaction Abbreviation | "WSS" | Mandatory field - Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field - Later of the time the transaction was created or last modified. |
| 3 | LSA ID | LSA ID format | Mandatory field - Sender (LSA responsible for settling the load within the zone). See Appendix A, Table A-4. |
| 4 | | [null] | Not used for gas. |
| 5 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 6 | Business Function ID | Varchar(2) | Optional field – Populated at sender’s discretion. See Appendix A, Table A-2. |

| Sequence | Field | Data type/size | Description |
|----------|----------------------------|----------------|---|
| 7 | Zone ID | Zone ID format | Mandatory field – Gas distribution zone. See Appendix A, Table A-6. |
| 8 | Settlement Type | Char(2) | Mandatory field – “S1,” “S2” or “S3” for initial monthly, interim or final settlement runs respectively. |
| 9 | Settlement Month | Number(6) | Mandatory field – Year and month (YYYYMM) of the settlement data being summarized. |
| 10 | Retailer Usage Total (GJs) | Number(17,4) | Mandatory field – Total of the consumption for all of the retailer’s sites in the month. |
| 11 | | [null] | Not used for gas. |
| 12 | | [null] | Not used for gas. |
| 13 | | [null] | Not used for gas. |
| 14 | | [null] | Not used for gas. |

8.6.2.3 Wholesale settlement details transaction (WSD) — process rules and content

- (1) The WSD provides daily site-specific settlement results to retailers for energized sites enrolled to them.
- (2) The site characteristics in this transaction are those characteristics in effect at the end of the settlement day.

Table 6. Wholesale settlement details transaction (WSD)

| Sequence | Field | Data type/size | Description |
|----------|-----------------------------------|--------------------|--|
| 1 | Transaction Abbreviation | “WSD” | Mandatory field - Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field - Date and time that the transaction was created. |
| 3 | LSA ID | LSA ID format | Mandatory field – Sender (LSA responsible for settling the load within the zone). See Appendix A, Table A-4. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Business Function ID | Varchar(2) | Optional field – Populated at sender’s discretion. See Appendix A, Table A-2. |
| 6 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Zone ID | Zone ID format | Mandatory field – Gas distribution zone. See Appendix A, Table A-6. |
| 8 | Settlement Run Date Time | Date time format | Mandatory field – Date and time settlement was initiated. This date does not indicate which data was used by the settlement run. |
| 9 | Settlement As At Date Time | Date time format | Mandatory field – Date and time that all data used by this settlement run was in the settlement system. Supports reproducibility of settlement at a later time than the original settlement run. This allows the same data to be used regardless of how many times a run is executed. |
| 10 | Settlement Type | Char(2) | Mandatory field – “B1,” “S1,” “S2” or “S3” for backcast, initial monthly, interim or final settlement runs respectively. |
| 11 | Audited Temperature End Date | Date time format | Mandatory field – The audited weather date at the time of the settlement run. |
| 12 | Settlement Interval Starting Time | Date time format | Mandatory field – Date and start time of the interval the settlement data is for. This will be the start of the gas day at 08:00 standard time. |
| 13 | Profiling Class | Varchar(20) | Mandatory field –The site’s profiling class. |
| 14 | | [null] | Not used for gas. |
| 15 | | [null] | Not used for gas. |
| 16 | Daily Site Usage (GJ) | Number(12,4) | Mandatory field – Settled consumption for the site for the day. |

| Sequence | Field | Data type/size | Description |
|----------|---------------|----------------|--|
| 17 | Result Source | Char(1) | Mandatory field – Daily site usage was calculated using: “M” – DCM covering the settlement day and frozen profiles “E” – LSA-generated consumption estimate (proxy day estimate or model estimate scaled by prior DCM) “A” – LSA generated consumption estimate (model estimate scaled by annual consumption). |
| 18 | | [null] | Not used for gas. |
| 19 | | [null] | Not used for gas. |
| 20 | Weather Zone | Varchar(20) | Mandatory field – Weather zone based on geographic location of site. |
| 21 | | [null] | Not used for gas. |
| 22 | | [null] | Not used for gas. |

8.6.2.4 Settlement profile value transaction (SPV) — process rules and content

- (1) The SPV will not be directed to a specific retailer but will be made available to all retailers.
- (2) This transaction is sent out with the initial monthly settlement run and then frozen for all subsequent settlement runs.
- (3) The Daily Profile Value field provides the energy usage values that a retailer can use to convert DCM usage for a site to the daily site usage shown in that site’s WSD.

Table 7. Settlement profile value transaction (SPV)

| Sequence | Field | Data type/size | Description |
|----------|-----------------------------------|------------------|--|
| 1 | Transaction Abbreviation | “SPV” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | LSA ID | LSA ID format | Mandatory field – Sender (LSA responsible for settling the load within the zone). See Appendix A, Table A-4. |
| 4 | Zone ID | Zone ID format | Mandatory field – Gas distribution zone. See Appendix A, Table A-6. |
| 5 | Weather Zone | Varchar(20) | Mandatory field – Weather zone based on geographic location of site. |
| 6 | Settlement Run Date Time | Date time format | Mandatory field – Date and time settlement was initiated. This date does not indicate which data was used by the settlement run. |
| 7 | Settlement As At Date Time | Date time format | Mandatory field – As at date and time of the settlement run that used the profiles. Identifies the settlement these profiles are for. |
| 8 | Settlement Type | Char(2) | Mandatory field – “S1” for initial monthly settlement run. |
| 9 | Profile Type | Varchar(20) | Mandatory field – Type of profile (e.g. “Sample,” “Model”). |
| 10 | Profiling Class | Varchar(20) | Mandatory field – Profiling class, if for a specific class. |
| 11 | Settlement Interval Starting Time | Date time format | Mandatory field – Date and start time of the interval the settlement data is for. This will be the start of the gas day at 08:00 standard time. |
| 12 | Interval Period | Number(4) | Mandatory field – “1440” for number of minutes in the gas day. |
| 13 | | [null] | Not used for gas. |
| 14 | Daily Profile Value (GJ) | Number(12,4) | Mandatory field – Profile usage for the gas day. |

8.6.3 Select retailer transaction set

8.6.3.1 Select retailer request transaction (SRR) — process rules and content

- (1) When enrolling a site, the retailer shall send an SRR, along with an update customer information transaction (UCI) as detailed in Section 8.6.4. The UCI must be populated as per Section 8.6.4.

- (2) The LSA may reject an enrolment if a UCI is not received. An enrolment may not be rejected on the basis of a failed UCI. The LSA’s validation process for enrolment may only include that a populated UCI was received.
- (3) If the UCI in question is rejected by the distributor, the retailer must send a corrected UCI within one business day of the effective date of the enrolment. For example, if an enrolment of a site becomes effective at 00:00 on March 27, and the UCI is rejected due to transaction errors, the retailer must send a corrected UCI by 00:00 on March 28.

Table 8. Select retailer request transaction (SRR)

| Sequence | Field | Data type/size | Description |
|----------|---------------------------|--------------------|--|
| 1 | Transaction Abbreviation | “SRR” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (enrolling retailer). |
| 4 | Business Function ID | Varchar(2) | Mandatory field – See Appendix A, Table A-2. |
| 5 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | LSA ID | LSA ID format | Mandatory field – Recipient (LSA responsible for settling the energy consumption within the zone). See Appendix A, Table A-4. |
| 7 | Priority Code | Char(1) | Mandatory field – The only value acceptable is: “1” – for Next Day. |
| 8 | | [null] | Not used for gas. |
| 9 | Retailer Account Number | Varchar(30) | Optional field – Account number by which a retailer identifies a site. |
| 10 | Retailer Reference Number | Varchar(20) | Optional field – Identification number assigned by retailers. |

8.6.3.2 Select retailer notification transaction (SRN) — content

Table 9. Select retailer notification transaction (SRN)

| Sequence | Field | Data type/size | Description |
|----------|-----------------------------|--------------------|---|
| 1 | Transaction Abbreviation | “SRN” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | LSA ID | LSA ID format | Mandatory field – Sender (LSA responsible for settling the energy consumption within the zone). See Appendix A, Table A-4. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer that sent the SRR). |
| 5 | Business Function ID | Varchar(2) | Optional field – Populated at sender’s discretion. See Appendix A, Table A-2. |
| 6 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Switch Date | Date time format | Conditional field – If Enrolment Notification Code field = “0000” this field is mandatory; otherwise this field is [null]. |
| 8 | Profiling Class | Varchar(20) | Conditional field – If Enrolment Notification Code field = “0000” this field is mandatory; otherwise this field is [null]. |
| 9 | | [null] | Not used for gas. |
| 10 | Enrolment Notification Code | Char(4) | Mandatory field – Provides notification to the retailer that its enrolment request was successful or failed, using a transaction status code from Appendix A, Table A-8. |
| 11 | Retailer Account Number | Varchar(30) | Conditional field – Account number by which a retailer identifies a site. If provided in the SRR this field is mandatory; otherwise this field is [null]. |

| Sequence | Field | Data type/size | Description |
|----------|---------------------------|----------------|--|
| 12 | Retailer Reference Number | Varchar(20) | Conditional field – Identification number that allows retailers to track their transactions easily. If provided in the SRR this field is mandatory; otherwise this field is [null]. |
| 13 | Energized Indicator | Char(1) | Conditional field – If Enrolment Notification Code field = “0000” this field is mandatory; otherwise this field is [null]. Indicates the energization status of the site at the time of successful enrolment. Values are: “Y” – Energized “N” – De-energized. Values are based on LSA’s energization status at the time of creation of the SRN and are not intended for settlement balancing purposes. |

8.6.3.3 Notify old retailer transaction (SRO) – process rules and content

The SRO is sent from the LSA to the old retailer to notify them of loss of a site.

Table 10. Notify old retailer transaction (SRO)

| Sequence | Field | Data type/size | Description |
|----------|-----------------------------|--------------------|---|
| 1 | Transaction Abbreviation | “SRO” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | LSA ID | LSA ID format | Mandatory field – Sender (LSA responsible for settling the energy consumption within the zone). See Appendix A, Table A-4. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (old retailer). |
| 5 | Business Function ID | Varchar(2) | Optional field – Populated at sender’s discretion. See Appendix A, Table A-2. |
| 6 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Switch Date | Date Time | Mandatory field – Date and time the old retailer is no longer retailer of record for the site. Time will be the first hour of the day. |
| 8 | Reason for Loss of the Site | Char(4) | Conditional field – If the site has been removed or is scheduled to be removed from the site ID catalogue, populate with “0001”; otherwise this field is [null]. |
| 9 | Old Retailer Account Number | Varchar(30) | Optional field – Account number by which old retailer identifies a site. |

8.6.4 Update customer information transaction set

8.6.4.1 Update customer information transaction (UCI) – process rules and content

- (1) The UCI allows for the transfer of important customer and emergency contact information to the distributor. This information is needed so that the distributor may execute its duties to facilitate customer transfer to the default supply provider (DSP), if required, and to permit safe and secure operation of the gas distribution service. To that end, references to “customer” refer to the person, company or legal entity financially responsible for a site, specifically with regard to enrolment with the DSP should that become necessary. Additionally, references to “site contact” are intended to mean the person responsible for day-to-day functions at a site, specifically with regards to emergency and service outage management.
- (2) Abbreviations used in addressing schemes follow the English-language version of Canada Post standards.
- (3) Update/refresh mechanism: whenever any of the information listed below is known by the retailer to have changed, the retailer is required to resend all of the data to ensure data is not lost.

Table 11. Update customer information transaction (UCI)

| Sequence | Field | Data type/size | Description |
|----------|--|-----------------------|--|
| 1 | Transaction Abbreviation | "UCI" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Business Function ID | Varchar(2) | Mandatory field – See Appendix A, Table A-2. |
| 5 | Distributor ID | Distributor ID format | Mandatory field - Recipient (distributor for the site). See Appendix A, Table A-3. |
| 6 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Site Customer Company Name | Varchar(100) | Conditional field – Required if Site Customer Last Name field is [null]; not allowed if Site Customer Last Name is included. |
| 8 | Site Customer Last Name | Varchar(30) | Conditional field – Required if Site Customer Company Name field is [null]; not allowed if Site Customer Company Name is included. |
| 9 | Site Customer First Name | Varchar(30) | Conditional field – Required if Site Customer Company Name field is [null]; not allowed if Site Customer Company Name is included. |
| 10 | Site Customer Middle Name | Varchar(30) | Optional field – Populated at sender's discretion. May be initial only. Must be [null] if Site Customer Company Name is populated. |
| 11 | Site Customer C/O or Attention Field | Varchar(100) | Optional field – Populated at sender's discretion. Customer's care of information. Must be name only. |
| 12 | Site Customer GST Exemption Indicator | Char(1) | Optional field – Populated at sender's discretion. "Y" - if the customer is GST exempt. "N" - if the customer is not GST exempt. |
| 13 | Site Customer Unit Definer | Varchar(15) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Used to define individual units where no unit number exists, e.g. "Back," "Basement." |
| 14 | Site Customer Unit Number | Varchar(6) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Apartment number, etc. |
| 15 | Site Customer House Number | Varchar(6) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. |
| 16 | Site Customer Street Pre-Direction | Varchar(2) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Standard direction codes (N, W, SW, etc.) which appear in front of the Street Name, e.g. "W Georgia ST." |
| 17 | Site Customer Street Name | Varchar(50) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. |
| 18 | Site Customer Street Type Code | Varchar(8) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Valid Canada Post codes are required. |
| 19 | Site Customer Street Direction | Varchar(2) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Standard direction codes (N, W, SW, etc.) which appear after the Street Name, e.g. "Millwoods RD W." |
| 20 | Site customer City Quadrant | Varchar(2) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Standard direction codes (N, W, SW, etc.) which designate a quadrant of a city. |
| 21 | Site Customer General Delivery Indicator | Char(1) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. "Y" - means general delivery address, [null] if no general delivery address is used. Address is formatted as: "GD Drayton Valley AB T0E 0M0." |
| 22 | Site Customer Lot ID | Varchar(10) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. An example of this type of address: (54 is the Lot ID) "54 26540 Range Road 11 Red Deer County AB T4E 1A3." |

| Sequence | Field | Data type/size | Description |
|----------|--|----------------|--|
| 23 | Site Customer Pre-Road Number | Varchar(10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number that appears before the road type in the Canada Post road address standard (“26540” in the above example is the pre-road number). |
| 24 | Site Customer Road Type | Varchar(20) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Road type in the Canada Post road address standard – “Range Road,” “Township Road,” “Highway” (“Range Road” in the above example is the road type). |
| 25 | Site Customer Post-Road Number | Varchar(10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number of the road that appears after the road type in the Canada Post road address standard (“11” in the above example is the Road Number). |
| 26 | Site Customer Compartment | Varchar(10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number of the compartment to follow “CP” in standard Canada Post mailing address, e.g. “CP 10 SITE 4 RR 3.” |
| 27 | Site Customer Site Number | Varchar(10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number of the site to follow “SITE” in standard Canada Post rural mailing address, e.g. “CP 10 SITE 4 RR 3.” |
| 28 | Site Customer Rural Route | Varchar(10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number of the rural route to follow “RR” in standard Canada Post rural mailing address, e.g. “CP 10 SITE 4 RR 3.” |
| 29 | Site Customer Mobile Route | Varchar (10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number of the mobile route to follow “MR” in standard Canada Post mailing address, e.g. “CP 10 SITE 4 MR 3.” |
| 30 | Site Customer Suburban Service | Varchar(10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number of the suburban service to follow “SS” in standard Canada Post mailing address, e.g. “CP 10 SITE 4 SS 3.” |
| 31 | Site Customer Station Name | Varchar(50) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Name to follow “STN” in standard Canada Post mailing address, e.g. “PO BOX 11223 STN MAIN Toronto ON.” |
| 32 | Site Customer Retail Postal Outlet | Varchar(50) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Name of the retail postal outlet to follow “RPO” in standard Canada Post mailing address, e.g. “PO BOX 123 RPO Standard Life Edmonton AB.” |
| 33 | Site Customer Post Office Box | Varchar(10) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Number to follow “PO BOX” in standard Canada Post mailing address, e.g. “PO BOX 11223 STN MAIN Toronto ON.” |
| 34 | Site Customer Letter Carrier Depot | Varchar(50) | Conditional field – Required if it exists in the Retailer’s record of the customer’s mailing address. Name of the letter carrier depot to follow “LCD” in standard Canada Post mailing address, e.g. “PO BOX 1352 LCD Blue Quill Edmonton AB.” |
| 35 | Site Customer Delivery Installation Name | Varchar(50) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Name of the Canada Post delivery installation. Has no coded designator in the Canada Post mailing address. |
| 36 | Site Customer City | Varchar(50) | Conditional field – Required if it exists in the retailer’s record of the customer’s mailing address. Name of the town or city. |

| Sequence | Field | Data type/size | Description |
|----------|-------------------------------------|-------------------------|---|
| 37 | Site Customer Postal Code | Varchar(9) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Postal or zip code – nine characters allows for the largest possible zip code. |
| 38 | Site Customer Province / State Code | Char(2) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Use standard two-character codes. |
| 39 | Site Customer Foreign Address 1 | Varchar(50) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Format as required for mailing. |
| 40 | Site Customer Foreign Address 2 | Varchar(50) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Format as required for mailing. |
| 41 | Site Customer Foreign Address 3 | Varchar(50) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Format as required for mailing. |
| 42 | Site Customer Foreign Address 4 | Varchar(50) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Format as required for mailing. |
| 43 | Site Customer Country | Varchar(30) | Conditional field – Required if it exists in the retailer's record of the customer's mailing address. Full country name. |
| 44 | Site Customer Phone Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 45 | Site Customer Business Phone Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 46 | Site Customer Fax Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 47 | Site Customer Pager Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 48 | Site Customer Mobile Phone | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 49 | Site Customer Email Address | Varchar (80) | Conditional field – Required if it exists in the retailer's record of the customer information. See Section 8.4.6.2. |
| 50 | Meter Access Notes | Varchar(80) | Optional field – Populated at sender's discretion. Information about accessing the site (e.g. "bad dog," "knock first"). |
| 51 | | [null] | Not used for gas. |
| 52 | | [null] | Not used for gas. |
| 53 | | [null] | Not used for gas. |
| 54 | Standard Industrial Class Code | Varchar(6) | Optional field – Populated at sender's discretion. |
| 55 | Site Contact Company Name | Varchar(100) | Conditional field – Required if it exists in the retailer's record of the customer information. Must be [null] if Site Contact Last Name and Site Contact First Name is populated. |
| 56 | Site Contact Last Name | Varchar(30) | Conditional field – Required if it exists in the retailer's record of the customer information. Must be [null] if Site Contact Company Name is populated. |
| 57 | Site Contact First Name | Varchar(30) | Conditional field – Required if it exists in the retailer's record of the customer information. Must be [null] if Site Contact Company Name is populated. |
| 58 | Site Contact Middle Name | Varchar(30) | Optional field – Populated at sender's discretion. |
| 59 | Site Contact Phone Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 60 | Site Contact Business Phone Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |

| Sequence | Field | Data type/size | Description |
|----------|---------------------------------------|-------------------------|---|
| 61 | Site Contact Fax Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 62 | Site Contact Pager Number | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 63 | Site Contact Cellular Phone | Telephone Number Format | Conditional field – Required if it exists in the retailer's record of the customer information and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 64 | Site Contact Email Address | Varchar(80) | Conditional field – Required if it exists in the retailer's record of the customer information. |
| 65 | Site Owner Company Name | Varchar(100) | Optional field – Populated at sender's discretion. |
| 66 | Site Owner Last Name | Varchar(30) | Optional field – Populated at sender's discretion. |
| 67 | Site Owner First Name | Varchar(30) | Optional field – Populated at sender's discretion. |
| 68 | Site Owner Middle Name | Varchar(30) | Optional field – Populated at sender's discretion. |
| 69 | Site Owner Unit Definer | Varchar(15) | Optional field – Populated at sender's discretion. Used to define individual units where no unit number exists, e.g. "Back," "Basement." |
| 70 | Site Owner Unit Number | Varchar(6) | Optional field – Populated at sender's discretion. Apartment number, etc. |
| 71 | Site Owner House Number | Varchar(6) | Optional field – Populated at sender's discretion. |
| 72 | Site Owner Street Pre-Direction | Varchar(2) | Optional field – Populated at sender's discretion. Standard direction codes (N, W, SW, etc.) which appear in front of the Street Name, e.g. "W Georgia ST." |
| 73 | Site Owner Street Name | Varchar(50) | Optional field – Populated at sender's discretion. |
| 74 | Site Owner Street Type Code | Varchar(8) | Optional field – Populated at sender's discretion. Valid Canada Post codes are required. |
| 75 | Site Owner Street Direction | Varchar(2) | Optional field – Populated at sender's discretion. Standard direction codes (N, W, SW, etc.) which appear after the Street Name, e.g. "Millwoods RD W." |
| 76 | Site Owner City Quadrant | Varchar(2) | Optional field – Populated at sender's discretion. Standard direction codes (N, W, SW, etc.) which designate a quadrant of a city. |
| 77 | Site Owner General Delivery Indicator | Char(1) | Optional field – Populated at sender's discretion. "Y" – if site has a general delivery address, [null] if no general delivery address is used. Address is formatted: "GD Drayton Valley AB T0E 0M0." |
| 78 | Site Owner Lot ID | Varchar(10) | Optional field – Populated at sender's discretion. Example of this type of address: "54 26540 Highway 11 Red Deer County AB T4E 1A3." |
| 79 | Site Owner Pre-Road Number | Varchar(10) | Optional field – Populated at sender's discretion. |
| 80 | Site Owner Road Type | Varchar(20) | Optional field – Populated at sender's discretion. Road type in the Canada Post road address standard, e.g. "Range Road," "Township Road," "Highway" ("Range Road" in the above example is the road type). |
| 81 | Site Owner Post-Road Number | Varchar(10) | Optional field – Populated at sender's discretion. Number of the road that appears after the road type in the Canada Post road address standard ("11" in the above example is the post-road number). |

| Sequence | Field | Data type/size | Description |
|----------|---------------------------------------|-------------------------|--|
| 82 | Site Owner Compartment | Varchar(10) | Optional field – Populated at sender's discretion. Number of the compartment to follow "CP" in standard Canada Post mailing address, e.g. "CP 10 SITE 4 RR 3." |
| 83 | Site Owner Site Number | Varchar(10) | Optional field – Populated at sender's discretion. Number of the Site to follow "SITE" in standard Canada Post rural mailing address, e.g. "CP 10 SITE 4 RR 3." |
| 84 | Site Owner Rural Route | Varchar(10) | Optional field – Populated at sender's discretion. Number of the rural route to follow "RR" in standard Canada Post rural mailing address, e.g. "CP 10 SITE 4 RR 3." |
| 85 | Site Owner Mobile Route | Varchar(10) | Optional field – Populated at sender's discretion. Number of the mobile route to follow "MR" in standard Canada Post mailing address, e.g. "CP 10 SITE4 MR 3." |
| 86 | Site Owner Suburban Service | Varchar(10) | Optional field – Populated at sender's discretion. Number of the suburban service to follow "SS" in standard Canada Post mailing address, e.g. "CP 10 SITE 4SS3." |
| 87 | Site Owner Station Name | Varchar(50) | Optional field – Populated at sender's discretion. Name to follow "STN" in standard Canada Post mailing address, e.g. "PO BOX 11223 STN Main Toronto ON." |
| 88 | Site Owner Retail Postal Outlet | Varchar(50) | Optional field – Populated at sender's discretion. Name of the retail postal outlet to follow "RPO" in standard Canada Post mailing address, e.g. "PO BOX 123 RPO Standard Life Edmonton AB." |
| 89 | Site Owner Post Office Box | Varchar(10) | Optional field – Populated at sender's discretion. Number to follow "PO BOX" in standard Canada Post mailing address, e.g. "PO BOX 11223 STN MAIN Toronto ON." |
| 90 | Site Owner Letter Carrier Depot | Varchar(50) | Optional field – Populated at sender's discretion. Name of the letter carrier depot to follow "LCD" in standard Canada Post mailing address, e.g. "PO BOX 1352 LCD Blue Quill Edmonton AB." |
| 91 | Site Owner Delivery Installation Name | Varchar(50) | Optional field – Populated at sender's discretion. Name of the Canada Post delivery installation. Has no coded designator in the Canada Post mailing address. |
| 92 | Site Owner City | Varchar(50) | Optional field – Populated at sender's discretion. Name of the town or city. |
| 93 | Site Owner Postal Code | Varchar(9) | Optional field – Populated at sender's discretion. Postal or zip code – nine characters allows for the largest possible zip code. |
| 94 | Site Owner Province / State Code | Char(2) | Optional field – Populated at sender's discretion. Use standard two-character codes. |
| 95 | Site Owner Foreign Address 1 | Varchar(50) | Optional field – Populated at sender's discretion. Format as required for mailing. |
| 96 | Site Owner Foreign Address 2 | Varchar(50) | Optional field – Populated at sender's discretion. Format as required for mailing. |
| 97 | Site Owner Foreign Address 3 | Varchar(50) | Optional field – Populated at sender's discretion. Format as required for mailing. |
| 98 | Alternate Contact Person | Varchar(50) | Conditional field – Required if it exists in the retailer's record of the customer information. Name of an alternate contact – the format of the name is first name, followed by a space and then last name. If the first name and last name combined are more than 50 characters in length, the last name will be truncated. |
| 99 | Site Owner Country | Varchar(30) | Optional field – Populated at sender's discretion. Full country name. |
| 100 | Site Owner Phone Number | Telephone Number Format | Optional field – Populated at sender's discretion, provided it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 101 | Site Owner Business Phone Number | Telephone Number Format | Optional field – Populated at sender's discretion, provided it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 102 | Site Owner Fax Number | Telephone Number Format | Optional field – Populated at sender's discretion. This field is only used if the customer fax number is for a tenant and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |

| Sequence | Field | Data type/size | Description |
|----------|---------------------------|-------------------------|--|
| 103 | Site Owner Pager Number | Telephone Number Format | Optional field – Populated at sender’s discretion. This field is only used if the customer pager number is for a tenant and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 104 | Site Owner Mobile Phone | Telephone Number Format | Optional field – Populated at sender’s discretion. This field is only used if the customer mobile number is for a tenant and it is a telephone number in Canada or the United States. See Section 8.4.6.2. |
| 105 | Site Owner Email Address | Varchar(80) | Optional field – Populated at sender’s discretion. This field is only used if the customer email address information is for a tenant. |
| 106 | Transaction Status Code | Char(4) | Conditional field – If the transaction is being sent by the retailer, this field is [null]; otherwise this field is mandatory when a distributor is sending the transaction to notify the retailer of problems with the transaction. Applicable transaction status codes in Appendix A, Table A-8 must be used. |
| 107 | Retailer Account Number | Varchar(30) | Optional field – Populated at sender’s discretion. Cross reference for support. Distributor does not have any obligation to keep track of this for the retailer. |
| 108 | Retailer Reference Number | Varchar(20) | Optional field – Populated at sender’s discretion. Identification number that allows retailers to track their transactions. |

8.6.4.2 Request update to customer information transaction (RUC) — process rules and content

- (1) The RUC may be sent by a distributor if the distributor suspects that the customer information for a specific site is not up to date, and the distributor is, therefore, requesting the retailer send a UCI.
- (2) The distributor must specify which site IDs require the new UCI. The retailer must respond within five business days of receiving the request by providing a new UCI or by contacting the distributor by email to advise that no new information is available.
- (3) Each distributor can send a maximum of 25 different RUCs per retailer each week.

Table 12. Request update to customer information transaction (RUC)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | “RUC” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field - Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | First Incorrect Field | Number (3) | Mandatory field –Field, from UCI currently held by the distributor, which is incorrect or missing. |
| 7 | Second Incorrect Field | Number (3) | Optional field – Populated at sender’s discretion. Field, from UCI currently held by the distributor, which is incorrect or missing. |
| 8 | Third Incorrect Field | Number (3) | Optional field – Populated at sender’s discretion. Field, from UCI currently held by the distributor, which is incorrect or missing. |
| 9 | Fourth Incorrect Field | Number (3) | Optional field – Populated at sender’s discretion. Field, from UCI currently held by the distributor, which is incorrect or missing. |
| 10 | Fifth Incorrect Field | Number (3) | Optional field – Populated at sender’s discretion. Field, from UCI currently held by the distributor, which is incorrect or missing. |

| Sequence | Field | Data type/size | Description |
|----------|-------------------------|----------------|---|
| 11 | Transaction Status Code | Char(4) | Conditional Field – If the transaction is being sent by the distributor, this field is [null]; otherwise this field is mandatory when a retailer is sending the transaction to notify the distributor of problems with the transaction. Applicable transaction status codes in Appendix A, Table A-8 must be used. |

8.6.5 Update site information transaction set

8.6.5.1 Site metering characteristics transaction (SMC) – process rules and content

- (1) The SMC consists of site and metering information. If the site has more than one associated socket, a transaction will be sent for each socket. This transaction allows for different meters at the same site measuring different functions. The distributor sends the SMC to the retailer of record applicable on the effective date of the change to communicate the following changes:
 - (a) There has been a successful enrolment.
 - (b) The energized state has been changed (see Sequence 7).
 - (c) The metering configuration has been changed. This includes changes to:
 - (i) type of metering (cumulative or unmetered), (see Sequence 6) or
 - (ii) subtract metering (see Sequence 8).
- (2) When a change as described in Section 8.6.5.1(1) occurs, and the change continues past midnight, the purpose of the SMC is to report the characteristics as they exist as of the end of the day on which they change. No more than one SMC per site per effective date shall be sent each day.
- (3) If an SMC was sent with incorrect information in any of sequences 6, 7, 8 or 11, new SMCs will be sent to replace the SMC that contained the error and all subsequent SMCs. The Effective Date Time field in the corrected SMC will be populated with the actual date of the error. However, if the error occurred more than eight years ago, the distributor has the option of using the actual date of the error in the SMC or a deemed date eight years ago.
- (4) If an SMC was not sent as required under Section 8.6.5.1(1), the missing SMC will be sent and all subsequent SMCs will be replaced with new SMCs. The Effective Date Time field in the missing SMC will be populated with the actual date the change took effect. However, if the change took effect more than eight years ago, the distributor has the option of using the actual date of the error in the SMC or a deemed date eight years ago.
- (5) Changes to meter number, multiplier or last reading will be reported by way of the DCM.

Table 13. Site metering characteristics transaction (SMC)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|--|
| 1 | Transaction Abbreviation | "SMC" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |

| Sequence | Field | Data type/size | Description |
|----------|--------------------------------|------------------|---|
| 5 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | Type of Metering | Char(1) | Mandatory field – The type of metering at the site. Values are: “C” – Cumulative “U” – Unmetered or not metered. |
| 7 | Energized Indicator | Char(1) | Mandatory field – Indicates the energization status of the site at the time of the effective date. Values are: “Y” – Energized “N” – De-energized. |
| 8 | Subtract Metering | Char(1) | Mandatory field – Indicates whether the site is subtract metered. Values are: “Y” – Yes “N” – No Must be “Y” if the site is metered in such a way that an additional correcting DCM usage value will be provided. |
| 9 | Loss Compensation | Char(1) | Mandatory field – Loss compensated is not used for gas (“N” for gas sites). |
| 10 | Socket ID | Socket ID format | Optional field – Populated at sender’s discretion. See Section 8.4.6.11. |
| 11 | Effective Date Time | Date time format | Mandatory field – Effective date and time of a change as described in Section 8.6.5.1(1)(a), (b) or (c). |
| 12 | Meter Number | Varchar(20) | Conditional field – Meter number is required if a meter is measuring energy usage at the site; otherwise this field is [null]. |
| 13 | Installation Multiplier | Number(14,9) | Conditional field – Includes all factors of the billing multiplier except heat value. Required if a meter is measuring energy usage at the site; otherwise this field is [null]. |
| 14 | Number of Dials | Number(3) | Conditional field – Number of dials on the meter. Required if a meter is measuring energy usage at the site; otherwise this field is [null]. |
| 15 | Decimal Positions | Number(1) | Conditional field – Number of the above dials which represent decimal positions. Required if a meter is measuring energy usage at the site; otherwise this field is [null]. |
| 16 | Last Reading Date Time | Date time format | Conditional field – Date and time of the last actual meter reading. Required if a meter is measuring energy usage at the site. Exception: if it is a new site the field is [null]. |
| 17 | Last Meter Dial Reading | Number(10) | Conditional field – Last actual meter reading. Required if a meter is measuring energy usage at the site. Exception: if it is a new site the field is [null]. |
| 18 | | [null] | Not used for gas. |
| 19 | | [null] | Not used for gas. |
| 20 | Demand Meter Number | Varchar(20) | Conditional field – Meter number of the meter measuring demand. Required if a meter is measuring demand at the site. |
| 21 | Demand Installation Multiplier | Number(14,9) | Conditional field – Includes all factors of the billing multiplier except heat value. Required if a meter is measuring demand at the site. |
| 22 | Transaction Status Code | Char(4) | Conditional field – If the transaction is being sent by the distributor, this field is [null]; otherwise this field is mandatory when a retailer is sending the transaction to notify the distributor of problems with the transaction. Applicable transaction status codes in Appendix A, Table A-8 must be used. |

8.6.5.2 Update site address transaction (USA) — process rules and content

The USA is used by the distributor to notify the retailer when a site’s service address has changed.

Table 14. Update site address transaction (USA)

| Sequence | Field | Data type/size | Description |
|----------|------------------------------|---------------------------|--|
| 1 | Transaction Abbreviation | "USA" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Gas distributor ID format | Mandatory field - Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | Unit Definer | Varchar(15) | Conditional Field – Required if it exists in the distributor's service address. Used to define individual units where no unit number exists, e.g. "Back," "Basement." |
| 7 | Unit Number | Varchar(6) | Conditional Field – Required if it exists in the distributor's service address. Apartment number, etc. |
| 8 | House Number | Varchar(6) | Conditional Field – Required if it exists in the distributor's service address. |
| 9 | Street Pre-Direction | Varchar(2) | Conditional Field – Required if it exists in the distributor's service address. Standard direction codes (N, W, SW, etc.) which appear in front of the street name, e.g. "W Georgia ST." |
| 10 | Street Name | Varchar(50) | Conditional Field – Required if it exists in the distributor's service address. If the street name is a number, include the digit, not the spelled out name. |
| 11 | Street Type Code | Varchar(8) | Conditional Field – Required if it exists in the distributor's service address. Valid Canada Post codes are required. |
| 12 | Street Direction | Varchar(2) | Conditional Field – Required if it exists in the distributor's service address. Standard direction codes (N, W, SW, etc.) which appear after the street name, e.g. "Millwoods RD W." |
| 13 | City Quadrant | Varchar(2) | Conditional Field – Required if it exists in the distributor's service address. Standard direction codes (N, W, SW, etc.) which designate a quadrant of a city. |
| 14 | City/Town Name | Varchar(30) | Conditional Field – Required if it exists in the distributor's service address. Usual name of the city, town, village, etc. |
| 15 | Legal Subdivision Code (LSD) | Varchar(2) | Conditional Field – Required if it exists in the distributor's service address. Sections are divided into four quarters or into sixteen legal subdivisions. They are numbered from 1 to 16. |
| 16 | LSD Quadrant | Varchar(1) | Conditional Field – Required if it exists in the distributor's service address. LSDs are divided into four quadrants, A,B, C and D |
| 17 | Quarter Section Code | Varchar(2) | Conditional Field – Required if it exists in the distributor's service address. Quarters divide each section into four parts: NE, NW, SE, SW This field may optionally be used for: "RL" – River lot "SL" – Settlement lot "SV" – Summer village. |
| 18 | Lot | Varchar(6) | Conditional Field – Required if it exists in the distributor's service address. A lot number to identify a lot within a Quarter Section Code (of RL/SL/SV). |
| 19 | Section | Number(2) | Conditional Field – Required if it exists in the distributor's service address. Sections are divided into four quarters or into sixteen legal subdivisions. They are numbered from 1 to 36. |
| 20 | Township | Number(3) | Conditional Field – Required if it exists in the distributor's service address. Townships are numbered from south to north starting at the U.S. border. They are numbered from 1 to 129 and 141. Each township is six miles (~10 kilometres) wide. |
| 21 | Range | Number(2) | Conditional Field – Required if it exists in the distributor's service address. Ranges are numbered from east to west starting from each meridian. They are numbered 1 to 34. Each range is six miles (~10 kilometres) wide. |

| Sequence | Field | Data type/size | Description |
|----------|-------------------------|----------------|---|
| 22 | Meridian | Varchar(1) | Conditional Field – Required if it exists in the distributor’s service address. A meridian defines a block of land between an east and west boundary. For Alberta, the meridian may be 4, 5, 6 with 4 being the Saskatchewan border, 5 running just east of the Calgary International Airport and 6 being just east of Jasper. The “W” is implied. |
| 23 | Rural House Number | Varchar(4) | Conditional Field – Required if it exists in the distributor’s service address. A house number. This is sometimes used in First Nations Reserves to identify unique residences within the rural scheme. |
| 24 | Lot | Varchar(6) | Conditional Field – Required if it exists in the distributor’s service address. Defines a lot within a city block. |
| 25 | Lot Range ID | Varchar(5) | Conditional Field – Required if it exists in the distributor’s service address. |
| 26 | Block | Varchar(5) | Conditional Field – Required if it exists in the distributor’s service address. Defines a city block within a plan. |
| 27 | Government Plan ID | Varchar(8) | Conditional Field – Required if it exists in the distributor’s service address. For urban areas, a plan defines an area within a city, usually a community. |
| 28 | Area Name | Varchar(30) | Optional Field – Populated at sender’s discretion. Oilfield name, subdivision name, etc. |
| 29 | Cluster Correlation Key | Number(13) | Optional Field – Populated at sender’s discretion. Identifies a grouping of sites which are normally handled jointly with regards to enrolment. |
| 30 | Unformatted Address | Varchar(65) | Optional Field – Populated at sender’s discretion. Address information that does not fit Canada Post standard rules. |
| 31 | Site Reference | Varchar(50) | Optional Field – Populated at sender’s discretion. |

8.6.5.3 Site profile change transaction (SPC) – process rules and content

The LSA has the option of either issuing an SPC or sending an email to the retailer of record when there is a change in either profiling class or loss group code at a site. The LSA shall make a best effort to provide the notification in advance of the profile class change.

Table 15. Site profile change transaction (SPC)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|--------------------|---|
| 1 | Transaction Abbreviation | “SPC” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | LSA ID | LSA ID format | Mandatory field – Sender (LSA responsible for settling the energy consumption within the zone). See Appendix A, Table A-4. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Site ID | Site ID format | Mandatory field – Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | Profiling Class | Varchar(20) | Mandatory field – Profiling class of the site. |
| 7 | Settlement Zone | Varchar(10) | Optional field – Populated at sender’s discretion. Settlement zone to which the site belongs. |
| 8 | Effective Date | Date format | Mandatory field – Date the new profiling class or loss group code becomes effective. |
| 9 | Transaction Status Code | Char(4) | Conditional field – If the transaction is being sent by the LSA, this field is [null]; otherwise this field is mandatory when a retailer is sending the transaction to notify the LSA of problems with the transaction. Applicable transaction status codes in Appendix A, Table A-8 must be used. |

8.6.6 Energize/de-energize site

- (1) An energize request or a de-energize request is initiated by either the customer or the retailer to request energization or de-energization of a site. Whether initiated by the customer or the retailer, the retailer sends the transactions to the distributor to request the work to be completed. If the retailer is requesting energization of a site, the retailer sends an energize request transaction (ENR) to the distributor. If the retailer is requesting de-energization of a site, the retailer sends a de-energize request transaction (DER) to the distributor.
- (2) In response to the transactions, the distributor either completes the work and sends a completion transaction, or fails back the transaction with a failure transaction. If a retailer switch as described in Section 7.3 occurs in between the requesting transaction (i.e. ENR or DER) and the completion of the work, the distributor shall do the following:
 - (a) If the requesting transaction is an ENR, the distributor shall continue to proceed with completion of the energization and send an energize completion transaction (ENC) to the requesting retailer.
 - (b) If the requesting transaction is a DER, the distributor shall cancel the request, fail the order by sending a de-energize failure transaction (DEF) to the requesting retailer and populate the De-energize Failure Reason Code field with “0008” (invalid retailer ID for site).

8.6.6.1 Energize request transaction (ENR) — process rules and content

For some distributors, energization also involves the relighting of natural gas appliances inside the property. In order to accommodate the relighting of natural gas appliances in those cases, after the retailer sends the ENR, a customer may be required to call the distributor to make arrangements for access inside the property. In some cases, the meter may also have to be re-installed.

Table 16. Energize request transaction (ENR)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-------------------------|---|
| 1 | Transaction Abbreviation | “ENR” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Business Function ID | Varchar(2) | Mandatory field – See Appendix A, Table A-2. |
| 5 | Distributor ID | Distributor ID format | Mandatory field – Recipient (distributor for the site). See Appendix A, Table A-3. |
| 6 | Site ID | Site ID format | Mandatory field – Site to energize. Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Priority Code | Number(1) | Optional field – Standard priority code representing the energize request urgency. Some distributors require access arrangements in order to energize the site. See Section 8.6.6.1. |
| 8 | Requested Energize Date | Date format | Optional field – Date the gas is to be turned on. See Section 8.6.6.1. |
| 9 | Contact Name | Varchar(100) | Mandatory field – The person to contact in the event of problems executing this request. |
| 10 | Contact Phone Number | Telephone number format | Mandatory field – The phone number of the contact person named in this transaction. |
| 11 | Message to Distributor | Varchar(160) | Optional field – Information to assist the distributor in executing this request. |

8.6.6.2 Energize failure transaction (ENF) — content

Table 17. Energize failure transaction (ENF)

| Sequence | Field | Data type/size | Description |
|----------|------------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | "ENF" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Site ID | Site ID format | Mandatory field – Site that could not be energized. Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | Energize Failure Reason Code | Char(4) | Mandatory field – Reason why the energization was not successful. When using transaction status codes, the applicable codes in Appendix A, Table A-8 must be used. |

8.6.6.3 Energize completion transaction (ENC) — content

Table 18. Energize completion transaction (ENC)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|--|
| 1 | Transaction Abbreviation | "ENC" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | LSA ID | LSA ID Format | Mandatory field – Recipient (LSA responsible for settling the energy consumption within the zone). See Appendix A, Table A-4. |
| 6 | Site ID | Site ID format | Mandatory field – Site that was energized. Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Energized Date | Date time format | Mandatory field – Date the site was energized. |

8.6.6.4 De-energize request transaction (DER) — process rules and content

The DER is used by the retailer to request de-energization from the distributor. The distributor may require additional information from the retailer (e.g. customer letter) in support of the transaction. Some distributors do not accept a DER when a site is to be demolished or a meter is to be removed. In those cases, a customer is required to contact the distributor directly to make arrangements for demolition or meter removal. Upon completion of the equipment or line removal, the distributor will inform the retailer of the change in site status by sending an SMC as described in Section 8.6.5.1.

Table 19. De-energize request transaction (DER)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|--|
| 1 | Transaction Abbreviation | "DER" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Business Function ID | Varchar(2) | Mandatory field – See Appendix A, Table A-2. |
| 5 | Distributor ID | Distributor ID format | Mandatory field – Recipient (distributor for the site). See Appendix A, Table A-3. |
| 6 | Site ID | Site ID format | Mandatory field – Site to de-energize. Unique identifier representing a site. See Section 8.4.6.10. |

| Sequence | Field | Data type/size | Description |
|----------|----------------------------|-------------------------|--|
| 7 | Priority Code | Number(1) | Optional field – Standard priority code representing the energize request urgency. See Section 8.6.6.4(1). |
| 8 | Requested De-energize Date | Date format | Optional field – Date the gas is to be turned off. |
| 9 | Contact name | Varchar(100) | Mandatory field – The person to contact in the event of problems executing this request. |
| 10 | Contact phone number | Telephone number format | Mandatory field – The phone number of the contact person named in this transaction. |
| 11 | De-energize Reason | Number(4) | Mandatory field – Reasons for de-energize: “0001” – Customer request “0002” – Cut-off for nonpayment “0005” – Seasonal shut off “0006” – Vacant premises. |
| 12 | Message to Distributor | Varchar(160) | Optional field – Information may be required to assist the distributor in executing this request. See Section 8.6.6.4. |

8.6.6.5 De-energize failure transaction (DEF) – content

Table 20. De-energize failure transaction (DEF)

| Sequence | Field | Data type/size | Description |
|----------|---------------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | “DEF” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Business Function ID | Varchar(2) | Optional field – Populated at sender’s discretion. See Appendix A, Table A-2. |
| 6 | Site ID | Site ID format | Mandatory field – Site that could not be de-energized. Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | De-energize Failure Reason Code | Char(4) | Mandatory field – Reason why the de-energize did not succeed. When using transaction status codes, the applicable codes in Appendix A, Table A-8 must be used. |
| 8 | Other Failure Description | Varchar(80) | Optional field – Descriptive reason why the de-energize failed. |

8.6.6.6 De-energize completion transaction (DEC) – content

Table 21. De-energize completion transaction (DEC)

| Sequence | Field | Data type/size | Description |
|----------|----------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | “DEC” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Business Function ID | Varchar(2) | Optional field – Populated at sender’s discretion. See Appendix A, Table A-2. |
| 6 | Site ID | Site ID format | Mandatory field – Site that was de-energized. Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | De-energized Date and Time | Date time format | Mandatory field – Date the site was de-energized. |

8.6.6.7 Release cut-off for nonpayment (CONP) lock transaction (RCL) — process rules and content

- (1) For those distributors that lock a site after performing a de-energize that was requested by a retailer for reason of nonpayment (CONP), thereby preventing another retailer from energizing the site until the first retailer receives payment, the RCL is sent to the gas distributor by the retailer that originally requested the de-energize, to request the distributor now release the CONP lock.
- (2) The RCL is to be sent by the retailer who issued the DER when collection action has been completed or cancelled. The RCL is required within a short time after collection action has been ended.

Table 22. Release CONP lock transaction (RCL)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|--|
| 1 | Transaction Abbreviation | "RCL" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Business Function ID | Varchar(2) | Optional field – Populated at sender's discretion. See Appendix A, Table A-2. |
| 5 | Distributor ID | Distributor ID format | Mandatory field – Recipient (distributor for the site). See Appendix A, Table A-3. |
| 6 | Site ID | Site ID format | Mandatory field – Site for which CONP lock release is requested. Unique identifier representing a site. See Section 8.4.6.10. |

8.6.6.8 Release CONP lock completion transaction (RCC) — process rules and content

- (1) In response to receipt of an RCL, the distributor will unlock the site to allow the retailer of record to authorize an energize request and send the retailer that originally issued the DER an RCC.

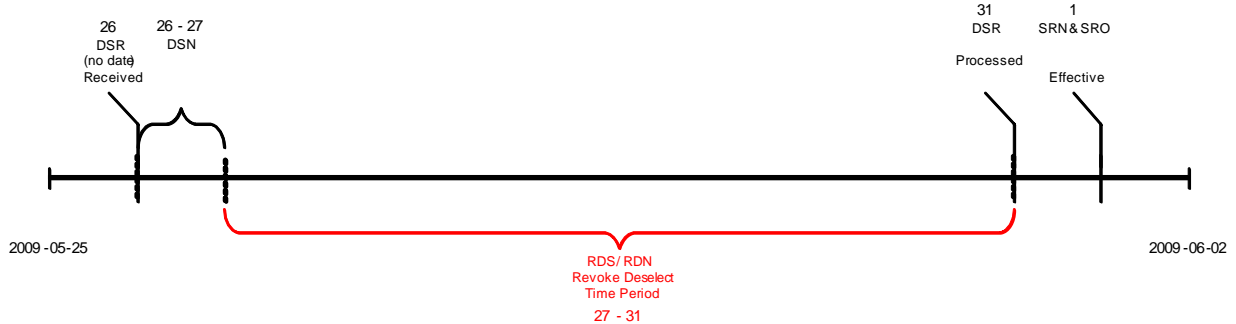
Table 23. Release CONP lock completion transaction (RCC)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|--|
| 1 | Transaction Abbreviation | "RCC" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Site ID | Site ID format | Mandatory field – Site which needs lock removed. Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | Completion Flag | Char(1) | Mandatory field – Values are: "Y" – CONP lock is removed "N" – CONP lock is not removed. |
| 7 | CONP Lock Remove Date | Date time format | Mandatory field – Date and time CONP lock was removed. |
| 8 | Failure Reason Code | Char(4) | Conditional field – Required if the RCL fails. Reason why the CONP lock was not removed. When using transaction status codes, the applicable codes in Appendix A, Table A-8 must be used. |

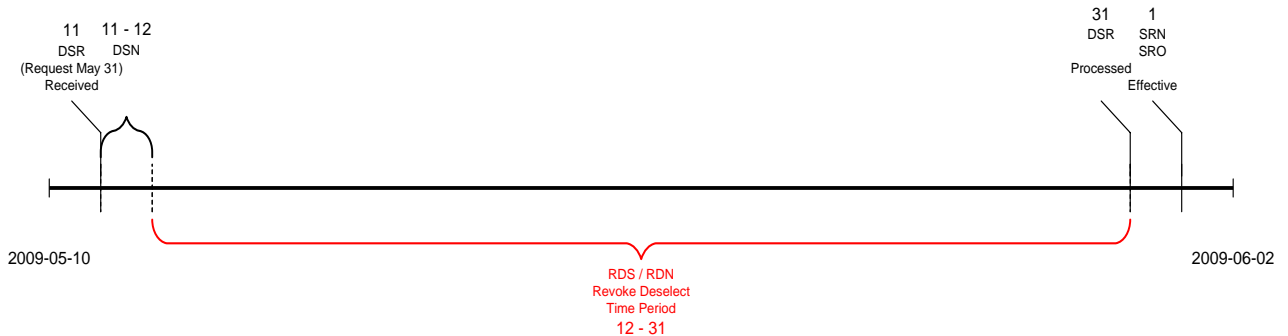
8.6.7 De-select retailer transaction set

Figure 1. Timelines for de-select retailer transaction set

De-select retailer transaction (DSR) with no request date that is sent and received on May 26:



DSR with request date May 31 that is sent and received on May 11:



8.6.7.1 De-select request transaction (DSR) – process rules and content

- (1) The DSR enables a retailer to notify a distributor that they will no longer provide gas services for the site.
- (2) The DSR will be processed effective on the date in the Requested De-select Date field of the DSR unless the site is enrolled earlier by another retailer or the current retailer revokes the de-select request before the site is switched to the default supplier provider.
- (3) The site will be switched to the default supplier provider upon the expiry of the date in Requested De-select Date field in the DSR or the deemed date if the de-select date is [null].
- (4) The distributor will accept a DSR and the requested de-select date will be deemed to be five calendar days from the day the DSR was received if the Requested De-select Date field is [null].
- (5) The distributor will accept a DSR and default the date to five calendar days from the transaction receipt where the date in Requested De-select Date field in the DSR is less than five days from the date the DSR is received by the distributor.
- (6) The date in the Requested De-select Date field (if populated) must be no greater than 60 calendar days from the date the DSR is received by the distributor.

- (7) The retailer must include a de-select reason code in the De-select Reasons field of the DSR.
- (8) The De-select Reason Code field shall be populated with “0001” only in situations where there was not an erroneous enrolment (as defined in Section 7.3(7)) and the customer consuming natural gas at the site has physically moved or will be physically moving to another site.
- (9) The De-select Reason Code field shall be populated with “0002” only in situations where there was not an erroneous enrolment (as defined in Section 7.3(7)) and the retailer no longer wishes to have the customer enrolled or a customer no longer wishes to be served by the retailer. When receiving a DSR containing “0002” in the De-select Reason Code field, the distributor shall transfer the UCI customer information to the regulated rate provider or the default supplier for the site.
- (10) The De-select Reason Code field shall be populated with “0003” only in situations where there was an erroneous enrolment (as defined in Section 7.3(7)). When receiving a DSR containing “0003” in the De-select Reason Code field, the distributor shall notify the LSA and the LSA shall perform the actions in accordance with Section 7.3(7).

Table 24. De-select retailer transaction (DSR)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | “DSR” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Distributor ID | Distributor ID format | Mandatory field – Recipient (distributor for the site). See Appendix A, Table A-3. |
| 5 | Site ID | Site ID format | Mandatory field – Site to de-select. Unique identifier representing a site. See Section 8.4.6.10. |
| 6 | Requested De-select Date | Date | Optional field – Date the site is to be de-selected. |
| 7 | De-select Reasons | Varchar(4) | Mandatory field – Reason for the DSR: “0001” – Customer moving out (as per Section 8.6.7.1(8)) “0002” – Retailer drops customer (as per Section 8.6.7.1(9)) “0003” – Erroneous enrolment (as per Section 8.6.7.1(10)) |

8.6.7.2 De-select notification transaction (DSN) – process rules and content

The distributor will send a DSN of acceptance or rejection of the DSR that the distributor received.

Table 25. De-select notification transaction (DSN)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|--|
| 1 | Transaction Abbreviation | “DSN” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | MDM ID | MDM ID format | Mandatory field – Recipient (MDM responsible for reading the meter). See Appendix A, Table A-5. |
| 6 | LSA ID | LSA ID format | Mandatory field – Recipient (LSA responsible for settling the energy consumption within a zone). See Appendix A, Table A-4. |

| Sequence | Field | Data type/size | Description |
|----------|-----------------------------|----------------|---|
| 7 | Site ID | Site ID format | Mandatory field – Site to de-select. Unique identifier representing a site. See Section 8.4.6.10. |
| 8 | De-select Notification Code | Varchar(4) | Mandatory field – Reason the DSR was confirmed or rejected. When using transaction status codes, the applicable codes in Appendix A, Table A-8 must be used. |

8.6.7.3 Revoke de-select request transaction (RDS) — process rules and content

The distributor will process and accept an RDS from a retailer where the retailer is still the current retailer of record of the site and the current retailer has sent a successful DSR as confirmed by the DSN.

Table 26. Revoke de-select request transaction (RDS)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | "RDS" | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Business Function ID | Varchar(2) | Mandatory field – See Appendix A, Table A-2. |
| 5 | Distributor ID | Distributor ID format | Mandatory field – Recipient (distributor for the site). See Appendix A, Table A-3. |
| 6 | Site ID | Site ID format | Mandatory field – Site for which to revoke the DSR. Unique identifier representing a site. See Section 8.4.6.10. |

8.6.7.4 Revoke de-select notification transaction (RDN) — process rules and content

The distributor will send an RDN of acceptance or rejection for each RDS that the distributor received.

Table 27. Revoke de-select notification transaction (RDN)

| Sequence | Field | Data type/size | Description |
|----------|------------------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | "RDN" | Mandatory field – Abbreviation for the transaction name |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 4 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 5 | Business Function ID | Varchar(2) | Optional field – Populated at sender's discretion. See Appendix A, Table A-2. |
| 6 | MDM ID | MDM ID format | Mandatory field – Recipient (MDM responsible for reading the meter). See Appendix A, Table A-5. |
| 7 | LSA ID | LSA ID format | Mandatory field – Recipient (LSA responsible for settling the energy consumption within the zone). See Appendix A, Table A-4. |
| 8 | Site ID | Site ID format | Mandatory field – Site to de-select. Unique identifier representing a site. See Section 8.4.6.10. |
| 9 | Revoke De-select Notification Code | Varchar(4) | Mandatory field – Reason the RDS was confirmed or rejected. When using transaction status codes, the applicable transaction status codes listed in Appendix A, Table A-8 must be used. |

8.6.8 Request off-cycle meter read transaction set

- (1) If a customer or retailer requires a meter read off cycle, the retailer sends the request off-cycle meter read transaction (ROR) to the distributor who then notifies the MDM to obtain the read.
- (2) If the MDM obtains the read, the MDM provides a DCM to the distributor, the LSA and the retailer. The distributor provides a request off-cycle meter read completion transaction (ROC) to the retailer and populates the Completion Flag field with “Y” (off-cycle reading obtained).
- (3) If the MDM cannot obtain the read, the distributor issues an ROC to the retailer and populates the Completion Flag field with “N” (off-cycle reading not obtained).
- (4) If a retailer switch as described in Section 7.3 occurs after the retailer sends the ROR but before the MDM obtains the read, the distributor shall not cancel the read request. When the read is obtained by the MDM, the distributor shall send the ROC to the retailer that sent the ROR and shall populate the Requested Off-Cycle Read Date field with the date the read was obtained.

8.6.8.1 Request off-cycle meter read transaction (ROR) – content

Table 28. Request off-cycle meter read transaction (ROR)

| Sequence | Field | Data type/size | Description |
|----------|-------------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | “ROR” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Business Function ID | Varchar(2) | Mandatory field – See Appendix A, Table A-2. |
| 5 | Distributor ID | Distributor ID format | Mandatory field – Recipient (distributor for the site). See Appendix A, Table A-3. |
| 6 | Site ID | Site ID format | Mandatory field – Site to perform off-cycle meter read. Unique identifier representing a site. See Section 8.4.6.10. |
| 7 | Priority Code | Number(1) | Optional field – Standard priority code representing the off-cycle meter read request urgency. Some distributors require access arrangements in order to obtain an off-cycle meter read at the site. |
| 8 | Requested Off-cycle Read Date | Date Format | Optional field – Date the meter is requested to be read. Is optional if the priority code is used. |
| 9 | Meter Access Instructions | Varchar(80) | Optional field – Instructions on how to access the meter, or warnings (e.g. “Dog,” “See Manager,” “Careful,” “Knock and wait”). |

8.6.8.2 Request off-cycle meter read completion transaction (ROC) – content

Table 29. Request off-cycle meter read completion transaction (ROC)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | “ROC” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Recipient (retailer associated with the site). |
| 4 | Distributor ID | Distributor ID format | Mandatory field – Sender (distributor for the site). See Appendix A, Table A-3. |
| 5 | Site ID | Site ID format | Mandatory field – Site to perform off-cycle meter read. Unique identifier representing a site. See Section 8.4.6.10. |

| Sequence | Field | Data type/size | Description |
|----------|-----------------------------|------------------|--|
| 6 | Completion Flag | Char(1) | Mandatory field – Indicates whether the off-cycle reading was obtained. Values are: “Y” – Off-cycle reading obtained “N” – Off-cycle reading was not obtained. |
| 7 | Off-cycle Incomplete Reason | Varchar(80) | Conditional field – If completion flag = “N,” this field is mandatory; otherwise this field is [null]. |
| 8 | Off-cycle Read Date | Date time format | Conditional field – If completion flag = “Y,” this field is mandatory and shall be populated with the date the meter is read; otherwise this field is [null]. |

8.7 Transaction with standard content

The following transaction does not require electronic transmittal.

8.7.1 Revoke de-energize request transaction (RDR) — process rules and content

The RDR is a request and has no performance or time certainty. The distributor may not be capable of recalling or cancelling the de-energization of the site.

Table 30. Revoke de-energize request transaction (RDR)

| Sequence | Field | Data type/size | Description |
|----------|--------------------------|-----------------------|---|
| 1 | Transaction Abbreviation | “RDR” | Mandatory field – Abbreviation for the transaction name. |
| 2 | Transaction Date Time | Date time format | Mandatory field – Later of the time the transaction was created or last modified. |
| 3 | Retailer ID | Retailer ID format | Mandatory field – Sender (retailer associated with the site). |
| 4 | Business Function ID | Varchar(2) | Mandatory field – See Appendix A, Table A-2. |
| 5 | Distributor ID | Distributor ID format | Mandatory field – Recipient (distributor for the site). See Appendix A, Table A-3. |
| 6 | Site ID | Site ID format | Mandatory field – Site to revoke de-energize. Unique identifier representing a site. See Section 8.4.6.10. |

8.8 Transaction status codes

After a recipient receives a transaction, the recipient may screen the transaction for errors in the content or format of the transaction itself. The notification to the sender of the error status of the transaction should use whichever of the status codes in Table A-8, Settlement code transaction status codes, in Appendix A are appropriate for the error identified.

9 Performance standards for meter data managers operating in the province of Alberta

9.1 Overview

The purpose of this section is to define the responsibilities and performance standards for MDMs within the province of Alberta.

9.2 Roles and responsibilities

- (1) The MDM is the entity responsible for collecting meter data, validating and correcting meter data, storing historic data and reporting data to required parties.
- (2) Accountability for accuracy of meter data shall be the responsibility of one and only one entity. Accountabilities are as follows:
 - (a) A distributor is responsible for providing a meter and all meter-related services, including the function of MDM.
 - (b) The distributor may make arrangements under which other parties perform any or all of the functions of the MDM if the arrangements do not diminish or remove the responsibility or liability of the distributor for carrying out those functions.

9.3 Cumulative meter data performance standards

The following section of the MDM performance standards deals with cumulative meters that are defined as per Industry Canada approved devices that measure and register the integral of gas quantity with respect to time. This section is also applicable to virtual metering points that are effective points of measurement that may or may not be physically locatable. Virtual metering points are the calculated values based on two or more cumulative meters.

9.3.1 Data collection

9.3.1.1 Definition of approved meter reads

An approved meter read shall be defined as any one of the four options shown below:

- (1) A physical on-site meter read obtained and validated by the MDM responsible for reading the meter.
- (2) A remote meter read performed by an automated meter reading system (AMR).
- (3) A meter read obtained by the customer and validated by the distributor.
- (4) Estimates for sites with specific conditions as specified in Section 9.3.2.2(3).

9.3.1.2 Data collection elements

As a minimum, the data captured or verified during the data collection process must contain the following data elements:

- (1) Meter number.
- (2) Date of meter read.
- (3) Reading for all valid registers from the meter.

9.3.2 Validation of meter data

9.3.2.1 Validation tests

The MDM shall validate all cumulative meters using the following validation tests. If the metering data passes the validation tests, the data shall be considered settlement ready and shall be provided to the designated parties as per Section 9.3.4. Metering data that fails one or more validation tests shall be verified by the MDM as specified in Section 9.3.2.2(1).

Table 31. Cumulative metering validation tests

| Check | Test | Description | Pass/fail criteria |
|---------------------|---|---|---|
| Meter number | Compare meter number with expected meter number for site. | Meter number must match expected meter number. | Pass: meter number = expected meter number Fail: meter number ¹ expected meter number |
| Number of dials | Compare the number of digits on meter reading with expected number of digits for meter. | The number of digits in meter reading must be equivalent to the number of digits or dials on the meter display. | Pass: no. of digits = expected no. of dials Fail: no. of digits ¹ expected no. dials |
| High and low usage | Compare actual usage with historical usage (for energy meters only). | MDMs will continue to use their current high/low validation routines. These routines shall be published and made available to the market. | Pass: low limit < usage < high limit Fail: low limit > usage > high limit |
| High and low demand | Compare average demand with historical demand (for demand meters only). | MDMs will continue to use their current high/low validation routines. These routines shall be published and made available to the market. | Pass: low limit < demand < high limit Fail: low limit > demand > high limit |

9.3.2.2 Verification, editing and estimation of data

(1) Verification of data

- (a) If the meter reading fails one or more validation tests, the MDM shall verify the validity of the test failure.
- (b) If the MDM determines that the meter data is valid, then the original meter reading shall be considered settlement ready and shall be provided as a verified and edited (VE) meter reading in the DCM.
- (c) If the MDM determines that the data is invalid, then the MDM shall discard the failed data.

(2) Editing of data (data replacement)

- (a) If a previously submitted meter reading is subsequently found by the MDM to be suspect, the MDM shall submit cancellation DCM(s) for the suspect meter reading as soon as reasonably possible.
- (b) If the cancellation DCM causes the condition where there is no reported meter reading for the past two months, then the MDM shall provide replacement data for the cancellation DCM as soon as is practicable but in no circumstances greater than 20 business days from the date of the cancellation DCM.

(3) Estimation of data

- (a) Estimation of meter reading data shall take place only in these circumstances:
 - (i) where a meter has failed and the meter reading cannot be obtained by any means
 - (ii) where energy diversion or theft has occurred
 - (iii) in the event that a meter read cannot be obtained at the time that the site was energized or de-energized
- (b) Under the circumstances specified in (a), the MDM shall provide a site-specific estimate of actual usage for the period from the last validated meter reading to a current date. The data shall be reported as estimated (“ES”) meter reading in the DCM.

9.3.2.3 Investigation and notification

- (1) If a meter is found to be suspect as a result of the data verification, editing and estimation process, the MDM shall notify the owner of the meter within one business day.
- (2) The owner of the meter shall be responsible for replacing or repairing the defective meter within 20 business days from the day of notification from the MDM of a suspect cumulative meter.

9.3.3 Data storage

In addition to requirement outlined in the *Electricity and Gas Inspection Regulations*, the MDM shall store all original meter readings, validation results, estimated readings, issued DCMs and cancelled DCMs for a period of at least 24 months from the last data revision date.

9.3.4 Data provision

- (1) The MDM shall provide settlement-ready data in DCM records, as specified in Section 8.6.1.1, to the LSA and to retailers, no later than the eighth business day from the date of the meter read.
- (2) The MDM shall ensure that reporting of DCM data for a site will not generate date overlaps or leave date gaps with previously reported DCMs for that site. That is, for any valid site, the energy flow for any past single day must be accounted for in the effective time interval (as calculated from the difference between the Current Reading Date Time field and the Last Reading Date Time field) of one and only one DCM.
- (3) The reporting date in the DCM Current Reading Date Time field shall be the date the meter was actually read. If the Current Meter Dial Reading field is the same as the Last Meter Dial Reading field contained in a DCM (i.e. zero consumption), the Current Reading Date Time field may be deemed to be any date that is between the current reading date and the last reading date.
- (4) The reporting time in the DCM Current Reading Date Time field may, at the option of the MDM, be reported as actual meter read time or a consistently deemed meter read time between 00:00:00 and 23:59:59.

10 Settlement performance reporting

10.1 Reporting requirements

On a monthly basis the LSA will make the following reports available to the natural gas market participants and to the AUC.

10.2 Site DCM information

Each month the LSA will complete the table below related to site DCM information for each profiling class for each settlement run for each zone. For example the statistics reported for the settlement month of January would be reported in February (S1), March (S2) and May (S3).

Table 32. Site DCM information

| Profiling class | Average # sites without DCM | Average per cent sites without DCM | Average GJ consumption without DCM | Average per cent consumption without DCM |
|-------------------|-----------------------------|------------------------------------|------------------------------------|--|
| Profiling Class 1 | | | | |
| Profiling Class 2 | | | | |
| Profiling Class 3 | | | | |
| Etc. | | | | |
| Total system | | | | |

10.3 Settlement accuracy at final settlement

Each month the LSA will complete the table below related to settlement accuracy for each zone. Specifically, comparisons between final settlement (S3) and backcast (B1), initial monthly settlement (S1) and interim settlement (S2) will be provided. For example, the January Settlement Month statistics would be reported in May.

Table 33. Settlement accuracy at final settlement

| Profiling Class | Mean absolute deviation (GJ) | Mean absolute per cent error (%) |
|-------------------|------------------------------|----------------------------------|
| Profiling Class 1 | | |
| Profiling Class 2 | | |
| Profiling Class 3 | | |
| Etc. | | |
| Total system | | |

10.4 System information

System information relates to the gas receipts and gas deliveries for the gas distribution system in total for each zone. The LSA will provide an estimate of total system receipts for each day in the settlement month and final settlement of the total system gas consumption will be provided at the time retailer final settlement (S3) is issued. For example, the statistics reported in the month of January would be for the settlement month of September. The annual system data used to derive unaccounted-for gas will be provided at the time of the unaccounted-for gas recovery rider application (per Section 4.1).

Table 34. System information

| | System receipt (GJ) | Final settlement (S3) system data (GJ) |
|-------|---------------------|--|
| Day 1 | | |
| Day 2 | | |
| Day 3 | | |
| Etc. | | |

Appendix A

Supplementary Tables

Appendix A – Supplementary tables

The intent of this appendix is to facilitate any table revisions outside of the standard AUC rule-making process. In general, table revisions contemplated are those that would have little impact to natural gas market participants. Should table revisions be needed, the Commission will issue a bulletin notifying natural gas market participants.

Table A-1 PFEC application form

Instructions for filling in the PFEC application form:

- (1) All fields, unless otherwise marked, are mandatory.
- (2) Grey shaded sections to be completed by the LSA, MDM or distributor investigating this PFEC application form.
- (3) Attach additional information labelled Appendix 1, 2, 3, etc.

Table A-1 PFEC application form

| PART ONE | | PFEC Reference #: | | | |
|---|--|-------------------------------|--|-------------------------------------|--|
| Initiator Contact Information | | | | Error Information | |
| Contact Name: | | | | Site / Socket ID # | |
| Company Name: | | | | Retailer ID# | |
| Phone Number: | | | | Site Address (optional) | |
| Email Address: | | | | Time Period From: | |
| Error Type (mark with an "x"): | | | | To: | |
| Meter-Related | | | | Settlement-Related | |
| | | | | Settlement Run: (B1,S1,S2,S3) | |
| Application Initiated by (mark with an "x"): | | | | Date of Application: | |
| Retailer | | LSA | | | |
| Investigator Contact Information (if not LSA) | | | | Affected Parties: (if known) | |
| Company Name: | | | | Company Name: | |
| Contact Name: | | | | Contact Name: | |
| Phone Number: | | | | Phone Number: | |
| Email Address: | | | | Email Address: | |
| Type of Error (mark with an "x") | | | | | |
| <u>Energize/De-energize</u> | | | | | |
| <u>Enrolment</u> | | | | | |
| <u>Calculation</u> | | | | | |
| <u>Consumption/Meter Read</u> | | | | | |
| Site Characteristics: | | | | | |
| Loss Group Code | | | | | |
| Profiling Class | | | | | |
| Zone | | | | | |
| Details of Problem: | | | | | |
| Original data and background information regarding error (including GJs): | | | | | |
| | | | | | |
| Proposed Revisions: | | | | | |
| | | | | | |
| Rationale for Revisions: | | | | | |
| | | | | | |
| PART TWO (Grey shaded sections to be completed by the LSA, MDM or distributor investigating this PFEC application) | | | | | |
| LSA ID#: | | Retailer ID# (if applicable): | | MDM ID# (if applicable): | |

| | | | |
|---------------------------------|--|--------------------------|--|
| Determination and comments: | | | |
| | | | |
| Action taken (if any) and date: | | | |
| | | | |
| Response Date: | | | |
| | | Signature of Respondent: | |
| | | Respondent Name: | |
| | | Phone Number: | |

Table A-2 Business function ID

| Code | Meaning |
|------|-------------------------|
| DE | Default supply provider |
| RE | Competitive retailer |
| SR | Self retailer |

Table A-3 Distributor ID

A four-digit number uniquely represents each distributor operating within Alberta.

| Distributor ID | Name of distributor | Active | Expiry |
|----------------|------------------------|--------------|--------------|
| 0001 | ATCO Gas North | Jan 01, 2001 | Jan 01, 2099 |
| 0003 | ATCO Gas South | Jan 01, 2001 | Jan 01, 2099 |
| 0007 | AltaGas Utilities Inc. | Jan 01, 2001 | Jan 01, 2099 |

Table A-4 Load settlement agent (LSA) ID

A four-digit number uniquely represents each load settlement agent (LSA) operating within Alberta.

| LSA ID | Settlement zone | LSA name | Active | Expiry |
|--------|-----------------------------------|------------------------|--------------|--------------|
| 1001 | ATCO Gas North and ATCO Gas South | ATCO Gas | Jan 01, 2001 | Dec 31, 2099 |
| 1007 | AltaGas Utilities Inc. | AltaGas Utilities Inc. | Jan 01, 2001 | Dec 31, 2099 |

Table A-5 Meter data manager (MDM) ID

A four-digit number uniquely represents each meter data management company operating within Alberta.

| MDM ID | MDM name | Active | Expiry |
|--------|------------------------|--------------|--------------|
| 2001 | ATCO | Jan 01, 2001 | Dec 31, 2099 |
| 2007 | AltaGas Utilities Inc. | Jan 01, 2001 | Dec 31, 2099 |

Table A-6 Zone ID

A four-digit number that uniquely represents each gas distribution zone. The ID is assigned by the LSA.

| Zone ID | Zone name | Active | Expiry |
|---------|----------------------------------|--------------|--------------|
| 0101 | ATCO Gas North distribution zone | Jan 01, 2001 | Dec 31, 2099 |
| 0103 | ATCO Gas South distribution zone | Jan 01, 2001 | Dec 31, 2099 |
| 2601 | AltaGas Utilities Inc. | Jan 01, 2001 | Dec 31, 2099 |

Table A-7 DCM status flag codes

The following data status flag codes are mandatory for inclusion with all DCMs:

| Code | Meaning |
|------|--|
| ME | Passed the MDM's validation tests |
| VE | Failed the MDM's validation tests, but passed verification process |
| ES | Estimated |

Table A-8 Settlement code transaction status codes

Natural gas market participants' systems must only use NGSSC status codes related to the specific transaction(s) they are linked to. Transaction status code "0027" (Other - call distributor for details) should not be used in place of any of the listed transaction status codes unless no suitable code is found.

Universal transaction status codes

| Status code | Description | Transaction | Sender | Recipient |
|-------------|----------------------------------|-------------|-----------------------|-----------|
| 0000 | Transaction successful | All | Distributor, LSA, MDM | Retailer |
| 0001 | Invalid transaction abbreviation | All | Distributor, LSA, MDM | Retailer |
| 0002 | Invalid date time format | All | Distributor, LSA, MDM | Retailer |

Enrolment/de-enrolment transaction status codes

| Status code | Description | Transaction | Sender | Recipient |
|-------------|---|---------------|------------------|-----------|
| 0005 | Invalid retailer ID | SRN, DSN,RDN | Distributor, LSA | Retailer |
| 0006 | Invalid retailer ID – not eligible for new switches | SRN | LSA | Retailer |
| 0007 | Invalid retailer ID – not valid for this distributor | SRN | LSA | Retailer |
| 0008 | Invalid retailer ID for site | SRN, DSN, RDN | Distributor | Retailer |
| 0011 | Invalid distributor ID | DSN,RDN | Distributor | Retailer |
| 0012 | Invalid distributor ID for site | DSN,RDN | Distributor | Retailer |
| 0013 | Invalid site ID | SRN, DSN,RDN | Distributor, LSA | Retailer |
| 0014 | Site already enrolled with this retailer | SRN | LSA | Retailer |
| 0015 | Site ID has been removed from the site catalogue | SRN, DSN,RDN | Distributor, LSA | Retailer |
| 0016 | Site not allowed to switch | SRN | LSA | Retailer |
| 0017 | Switch has already been processed for site | SRN | LSA | Retailer |
| 0018 | Invalid priority code | SRN | LSA | Retailer |
| 0021 | Transaction Status Code field must be blank | SRN | LSA | Retailer |
| 0022 | Business Function ID field must be blank | SRN, DSN, RDN | Distributor, LSA | Retailer |
| 0024 | Invalid number of fields in the transaction | SRN, DSN, RDN | Distributor, LSA | Retailer |
| 0026 | Invalid business function ID | SRN,RDN | Distributor, LSA | Retailer |
| 0027 | Other – call distributor for details | SRN, DSN, RDN | Distributor, LSA | Retailer |
| 0051 | Valid update customer information not received | SRN | LSA | Retailer |
| 0190 | Retailer Account Number field too long | SRN | LSA | Retailer |
| 0191 | Retailer Reference Number field too long | SRN | LSA | Retailer |
| 0198 | Requested de-select date greater than 60 days | DSN | LSA | Retailer |
| 0200 | Invalid de-select reason | DSN | LSA | Retailer |
| 0201 | Invalid requested de-select date - format, length | DSN | LSA | Retailer |
| 0202 | Already de-selected | DSN | LSA | Retailer |
| 0551 | Profiling Class field invalid – format, length, missing | SRN | LSA | Retailer |
| 1002 | Loss Group Code field invalid – format, length, missing | SRN | LSA | Retailer |
| 1003 | Enrolment Notification Code field invalid – format, length, missing | SRN | LSA | Retailer |
| 1004 | Retailer Account Number field invalid – format, length | SRN | LSA | Retailer |
| 1005 | Energized Indicator field invalid – format, length | SRN | LSA | Retailer |
| 1052 | Switch Date field invalid – format, length | SRN | LSA | Retailer |
| 1209 | De-select not requested | RDN | Distributor | Retailer |

| Status code | Description | Transaction | Sender | Recipient |
|-------------|--|-------------|-------------|-----------|
| 1230 | De-select cancellation too late | RDN | Distributor | Retailer |
| 1231 | De-select not in progress | RDN | Distributor | Retailer |
| 8518 | Pending enrolment already exists for site | RDN | Distributor | Retailer |
| 8719 | Invalid retailer certification level for transaction | SRN | Distributor | Retailer |
| 8720 | Site is not enrollable | SRN | Distributor | Retailer |

MDM transaction status codes

| Status code | Description | Transaction | Sender | Recipient |
|-------------|--|-------------|--------|-----------------------|
| 0003 | Invalid MDM ID | DCM | MDM | Retailer, distributor |
| 0004 | Invalid MDM ID for site | DCM | MDM | Retailer, distributor |
| 0005 | Invalid retailer ID | DCM | MDM | Retailer, distributor |
| 0008 | Invalid retailer ID for site | DCM | MDM | Retailer, distributor |
| 0009 | Invalid LSA ID | DCM | MDM | Retailer, distributor |
| 0013 | Invalid site ID | DCM | MDM | Retailer, distributor |
| 0020 | Invalid socket ID | DCM | MDM | Retailer, distributor |
| 0021 | Transaction Status Code field must be blank | DCM | MDM | Retailer, distributor |
| 0022 | Business function ID field must be blank | DCM | MDM | Retailer, distributor |
| 0024 | Invalid number of fields in the transaction | DCM | MDM | Retailer, distributor |
| 0026 | Invalid business function ID | DCM | MDM | Retailer, distributor |
| 0196 | Invalid meter information | DCM | MDM | Retailer, distributor |
| 0501 | Meter Number field invalid – format, length | DCM | MDM | Retailer, distributor |
| 0504 | Measured Demand field invalid - format, length, missing | DCM | MDM | Retailer, distributor |
| 0505 | Last Reading Date Time field invalid – format, length | DCM | MDM | Retailer, distributor |
| 0506 | Current Reading Date Time field invalid – format, length | DCM | MDM | Retailer, distributor |
| 0507 | Last Meter Dial Reading field invalid – format, length | DCM | MDM | Retailer, distributor |
| 0508 | Current Meter Dial Reading field invalid – format, length | DCM | MDM | Retailer, distributor |
| 0511 | Billing Multiplier field invalid - format, length, missing | DCM | MDM | Retailer, distributor |
| 0515 | Record Status field invalid – format, length | DCM | MDM | Retailer, distributor |
| 0516 | Cumulative meter read to be cancelled does not exist | DCM | MDM | Retailer, distributor |
| 0517 | Fields differ from original meter read, cancel aborted | DCM | MDM | Retailer, distributor |
| 0518 | Use of one of the meter read dates would create an overlap | DCM | MDM | Retailer, distributor |
| 0519 | Records with a “CA” status encountered after regular reads, cancel aborted | DCM | MDM | Retailer, distributor |

| Status code | Description | Transaction | Sender | Recipient |
|-------------|--|-------------|--------|-----------------------|
| 0520 | Meter read values and consumption cannot be negative | DCM | MDM | Retailer, distributor |
| 0561 | Demand Status field invalid – format, length | DCM | MDM | Retailer, distributor |
| 0562 | Consumption Status field invalid – format, length | DCM | MDM | Retailer, distributor |

Distributor transaction status codes

| Status code | Description | Transaction | Sender | Recipient |
|-------------|---|-------------|-------------|-----------|
| 0005 | Invalid retailer ID | DEF, ENF | Distributor | Retailer |
| 0008 | Invalid retailer ID for site | DEF, ENF | Distributor | Retailer |
| 0011 | Invalid distributor ID | DEF, ENF | Distributor | Retailer |
| 0013 | Invalid site ID | DEF, ENF | Distributor | Retailer |
| 0018 | Invalid priority code | DEF, ENF | Distributor | Retailer |
| 0024 | Invalid number of fields in the transaction | DEF, ENF | Distributor | Retailer |
| 0026 | Invalid business function ID | DEF, ENF | Distributor | Retailer |
| 0027 | Other – call distributor for details | DEF, ENF | Distributor | Retailer |
| 1200 | Already de-energized | DEF | Distributor | Retailer |
| 1201 | Requested De-energize Date field invalid – format, length, missing | DEF | Distributor | Retailer |
| 1202 | Requested De-energize Reason Code field invalid – format, length, missing | DEF | Distributor | Retailer |
| 1203 | Already energized | ENF | Distributor | Retailer |
| 1204 | Requested Energize Date field invalid – format, length, missing | ENF | Distributor | Retailer |
| 1205 | Distributor does not have infrastructure/not ready | ENF | Distributor | Retailer |
| 1206 | De-energize not requested | RDR | Distributor | Retailer |
| 1208 | Requested Off-cycle Read Date field invalid – format, length, missing | ROC | Distributor | Retailer |
| 1210 | Customer – access refused | DEF, ENF | Distributor | Retailer |
| 1212 | Contact name missing or incorrect | DEF, ENF | Distributor | Retailer |
| 1213 | Contact phone number missing or invalid | DEF, ENF | Distributor | Retailer |
| 1215 | Request date cannot be in the past | DEF, ENF | Distributor | Retailer |
| 1216 | Incorrect premises | DEF, ENF | Distributor | Retailer |
| 1217 | Distributor – no access to site | DEF, ENF | Distributor | Retailer |
| 1218 | No longer required | DEF, ENF | Distributor | Retailer |
| 1220 | Site locked for CONP | ENF | Distributor | Retailer |
| 1221 | Work volume exceeded | DEF | Distributor | Retailer |
| 1222 | Customer safety/critical impact to customer | DEF, ENF | Distributor | Retailer |
| 1223 | Customer not moving | DEF | Distributor | Retailer |
| 1225 | More than one customer affected | DEF | Distributor | Retailer |
| 1226 | New customer | DEF | Distributor | Retailer |
| 1304 | Customer construction not completed | ENF | Distributor | Retailer |
| 1306 | Meter base or meter socket issue/damage | ENF | Distributor | Retailer |
| 1317 | Duplicate work order request | DEF, ENF | Distributor | Retailer |
| 1323 | Seasonal/temperature disconnect policy in place | DEF | Distributor | Retailer |
| 1401 | Temperature outside limits | DEF | Distributor | Retailer |
| 1402 | Disconnect warning notice left at site | DEF | Distributor | Retailer |
| 8701 | Message to distributor is too long | DEF, ENF | Distributor | Retailer |
| 8755 | Tampering | ENF | Distributor | Retailer |
| 8760 | Distributor safety | DEF, ENF | Distributor | Retailer |
| 8763 | CONP – paid, receipt shown | DEF | Distributor | Retailer |
| 8764 | Wrong de-energize reason code received | DEF | Distributor | Retailer |

UCI transaction status codes - customer information

| Status code | Description | Transaction | Sender | Recipient |
|-------------|--|-------------|----------|-------------|
| 0061 | Customer first, last and middle names not allowed with customer company name | UCI | Retailer | Distributor |
| 0062 | Site Customer Company Name field too long | UCI | Retailer | Distributor |
| 0063 | Customer first name required | UCI | Retailer | Distributor |
| 0064 | Site Customer First Name field too long | UCI | Retailer | Distributor |
| 0065 | Customer last name required | UCI | Retailer | Distributor |
| 0066 | Site Customer Last Name field too long | UCI | Retailer | Distributor |
| 0067 | Site Customer Middle Name field too long | UCI | Retailer | Distributor |
| 0068 | Customer name required | UCI | Retailer | Distributor |
| 0069 | City is required | UCI | Retailer | Distributor |
| 0070 | Site Customer City field too long | UCI | Retailer | Distributor |
| 0071 | Invalid city quadrant | UCI | Retailer | Distributor |
| 0072 | Site Customer Compartment field too long | UCI | Retailer | Distributor |
| 0073 | Country is required | UCI | Retailer | Distributor |
| 0074 | Invalid country | UCI | Retailer | Distributor |
| 0075 | Customer mailing address required | UCI | Retailer | Distributor |
| 0076 | Invalid mailing address combination | UCI | Retailer | Distributor |
| 0077 | Only one of civic address, delivery address, road address or foreign address may be included | UCI | Retailer | Distributor |
| 0078 | An address for suburban services, mobile or rural routes cannot have a delivery installation | UCI | Retailer | Distributor |
| 0079 | Site Customer Delivery Installation Name field too long | UCI | Retailer | Distributor |
| 0080 | Site Customer Foreign Address 1 field too long | UCI | Retailer | Distributor |
| 0081 | Site Customer Foreign Address 2 field too long | UCI | Retailer | Distributor |
| 0082 | Site Customer Foreign Address 3 field too long | UCI | Retailer | Distributor |
| 0083 | Site Customer Foreign Address 4 field too long | UCI | Retailer | Distributor |
| 0084 | Invalid general delivery indicator | UCI | Retailer | Distributor |
| 0085 | Site Customer House Number field too long | UCI | Retailer | Distributor |
| 0086 | House number required | UCI | Retailer | Distributor |
| 0087 | Site Customer Letter Carrier Depot field too long | UCI | Retailer | Distributor |
| 0088 | Site Customer Lot ID field too long | UCI | Retailer | Distributor |
| 0089 | Site Customer Mobile Route field too long | UCI | Retailer | Distributor |
| 0090 | Site Customer Post Office Box field too long | UCI | Retailer | Distributor |
| 0091 | Site Customer Post-Road Number field too long | UCI | Retailer | Distributor |
| 0092 | Post-road number required | UCI | Retailer | Distributor |
| 0093 | Invalid postal code format | UCI | Retailer | Distributor |
| 0094 | Site Customer Pre-Road Number field too long | UCI | Retailer | Distributor |
| 0095 | Pre-road number required | UCI | Retailer | Distributor |
| 0096 | Invalid province / state code | UCI | Retailer | Distributor |
| 0097 | Province / state code is required | UCI | Retailer | Distributor |
| 0098 | Site Customer Retail Postal Outlet field too long | UCI | Retailer | Distributor |
| 0099 | Invalid road type | UCI | Retailer | Distributor |
| 0100 | Road type required | UCI | Retailer | Distributor |
| 0101 | Site Customer Rural Route field too long | UCI | Retailer | Distributor |
| 0102 | Site Customer Site Number field too long | UCI | Retailer | Distributor |
| 0103 | Site number is only valid when used in combination with a rural route | UCI | Retailer | Distributor |

| Status code | Description | Transaction | Sender | Recipient |
|-------------|---|-------------|----------|-------------|
| 0104 | Site Customer Station Name field too long | UCI | Retailer | Distributor |
| 0105 | Invalid street direction code | UCI | Retailer | Distributor |
| 0106 | Site Customer Street Name field too long | UCI | Retailer | Distributor |
| 0107 | Street name required | UCI | Retailer | Distributor |
| 0108 | Invalid street pre-direction code | UCI | Retailer | Distributor |
| 0109 | Invalid street type code | UCI | Retailer | Distributor |
| 0110 | Street type code required | UCI | Retailer | Distributor |
| 0111 | Site Customer Suburban Service field too long | UCI | Retailer | Distributor |
| 0112 | Invalid unit definer | UCI | Retailer | Distributor |
| 0113 | Unit definer not allowed with unit number | UCI | Retailer | Distributor |
| 0114 | Site Customer Unit Number field too long | UCI | Retailer | Distributor |
| 0115 | Site Customer Email Address field too long | UCI | Retailer | Distributor |
| 0116 | Invalid customer fax number | UCI | Retailer | Distributor |
| 0117 | Invalid customer mobile number | UCI | Retailer | Distributor |
| 0118 | Invalid customer pager number | UCI | Retailer | Distributor |
| 0119 | Invalid customer phone number | UCI | Retailer | Distributor |
| 0193 | Invalid customer business phone number | UCI | Retailer | Distributor |
| 0194 | Invalid contact business phone number | UCI | Retailer | Distributor |
| 0195 | Invalid owner business phone number | UCI | Retailer | Distributor |

UCI transaction status codes - contact information

| Status code | Description | Transaction | Sender | Recipient |
|-------------|--|-------------|----------|-------------|
| 0120 | Site Contact Company Name field too long | UCI | Retailer | Distributor |
| 0121 | Contact first, last and middle names not allowed with company name | UCI | Retailer | Distributor |
| 0122 | Site Contact First Name field too long | UCI | Retailer | Distributor |
| 0123 | Contact first name required | UCI | Retailer | Distributor |
| 0124 | Site Contact Last Name field too long | UCI | Retailer | Distributor |
| 0125 | Contact last name required | UCI | Retailer | Distributor |
| 0126 | Site Contact Middle Name field too long | UCI | Retailer | Distributor |
| 0127 | Contact name is required | UCI | Retailer | Distributor |
| 0128 | Site Contact Email Address field too long | UCI | Retailer | Distributor |
| 0129 | Invalid contact fax number | UCI | Retailer | Distributor |
| 0130 | Invalid contact mobile number | UCI | Retailer | Distributor |
| 0131 | Invalid contact pager number | UCI | Retailer | Distributor |
| 0132 | Invalid contact phone number | UCI | Retailer | Distributor |

UCI transaction status codes - site owner information

| Status code | Description | Transaction | Sender | Recipient |
|-------------|--|-------------|----------|-------------|
| 0133 | Site Owner Company Name field too long | UCI | Retailer | Distributor |
| 0134 | First, last and middle names not allowed with company name | UCI | Retailer | Distributor |
| 0135 | Site Owner First Name field too long | UCI | Retailer | Distributor |
| 0136 | Site owner first name required | UCI | Retailer | Distributor |
| 0137 | Site Owner Last Name field too long | UCI | Retailer | Distributor |
| 0138 | Site owner last name required | UCI | Retailer | Distributor |
| 0139 | Site Owner Middle Name field too long | UCI | Retailer | Distributor |
| 0140 | Site owner city is required | UCI | Retailer | Distributor |
| 0141 | Site Owner City field too long | UCI | Retailer | Distributor |
| 0142 | Invalid site owner city quadrant | UCI | Retailer | Distributor |
| 0143 | Site Owner Compartment field too long | UCI | Retailer | Distributor |
| 0144 | Site owner country is required | UCI | Retailer | Distributor |
| 0145 | Invalid site owner country | UCI | Retailer | Distributor |
| 0146 | An address for suburban services, mobile or rural routes cannot have a delivery installation | UCI | Retailer | Distributor |

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

UCI transaction status codes - general Information

| Status code | Description | Transaction | Sender | Recipient |
|-------------|---------------------------------|-------------|----------|-------------|
| 0008 | Invalid retailer ID for site | UCI | Retailer | Distributor |
| 0013 | Invalid site ID | UCI | Retailer | Distributor |
| 0053 | C/O or Attention field too long | UCI | Retailer | Distributor |
| 0057 | Invalid GST exemption indicator | UCI | Retailer | Distributor |

| | | | | |
|------|--|-----|----------|-------------|
| 0058 | Meter Access Notes field too long | UCI | Retailer | Distributor |
| 0151 | Alternate Contact Person field too long | UCI | Retailer | Distributor |
| 0191 | Retailer Reference Number field too long | UCI | Retailer | Distributor |

Table A-9 Transactions timing table

The following table details the timing of the transactions.

| Process (could involve other transactions) | Transaction | Input from (data source) | Output to (i.e. LSA, MDM, retailer, etc.) | Work completion to notification delay (maximum) |
|--|-------------|--------------------------|---|---|
| Select Retailer Request | SRR | New retailer | LSA | Refer to Section 7.3 |
| Select Retailer Notification | SRN | LSA | New retailer | Refer to Section 7.3 |
| Notify Old Retailer | SRO | LSA | Old retailer | Refer to Section 7.3 |
| Update Customer Information | UCI | Retailer | Distributor | Refer to Section 8.6.4.1 |
| Request Update Customer Information | RUC | Distributor | Retailer | Refer to Section 8.6.4.2 |
| Energize Request | ENR | Retailer | Distributor | |
| Energize Failure | ENF | Distributor | Retailer | 5 business days |
| Energize Completion | ENC | Distributor | Retailer, MDM, LSA | 5 business days |
| De-energize Request | DER | Retailer | Distributor | |
| De-energize Failure | DEF | Distributor | Retailer | 5 business days |
| De-energize Completion | DEC | Distributor | Retailer, MDM, LSA | 5 business days |
| Request Off-cycle Meter Read | ROR | Retailer | Distributor | |
| Request Off-cycle Meter Read Completion | ROC | Distributor | Retailer | 5 business days |
| Revoke De-energize Request | RDR | Retailer | Distributor | |
| De-select Request | DSR | Retailer | Distributor | Refer to Section 8.6.7 Figure 1 |
| De-select Notification | DSN | Distributor | LSA, MDM, retailer | Refer to Section 8.6.7 Figure 1 |
| Revoke De-select Request | RDS | Retailer | Distributor | Refer to Section 8.6.7 Figure 1 |
| Revoke De-select Notification | RDN | Distributor | Retailer | Refer to Section 8.6.7 Figure 1 |
| Site Metering Characteristics | SMC | Distributor | Retailer | 5 business days |
| Site Profile Change | SPC | LSA | Retailer | 5 business days |
| Daily Cumulative Meter Consumption | DCM | MDM | LSA, distributor, retailer | Refer to Section 9.3.4 |

| Process (could involve other transactions) | Transaction | Input from (data source) | Output to (i.e. LSA, MDM, retailer, etc.) | Work completion to notification delay (maximum) |
|--|-------------|--------------------------|---|---|
| Wholesale Settlement Information | WSI | LSA | Retailer | Refer to Section 4.3 |
| Wholesale Settlement Summary | WSS | LSA | Retailer | Refer to Section 4.3 |
| Wholesale Settlement Details | WSD | LSA | Retailer | Refer to Section 4.3 |
| Settlement Profile Value | SPV | LSA | All retailers | Refer to Section 4.3 |

Appendix B

Transaction Transport Mechanism - VLTrader

Appendix B – Transaction transport mechanism - VLTrader

The current transport mechanism for exchanging transactions is VLTrader. A complete description of the version, standards, roles, responsibilities and guidelines required to exchange transactions can be found on the AUC website.

B-1 VLTrader software upgrades

When coordinated deployment of a VLTrader upgrade or release proves necessary, the AUC will coordinate with market participants.

B-2 VLTrader outage communication

- (1) When a market participant has identified that its VLTrader cannot connect to another participant, the participant identifying the problem should contact the other market participant to which connection cannot be made and inform that participant of the VLTrader connection failure.
- (2) Whichever market participant is experiencing a VLTrader outage must inform all other impacted market participants of the VLTrader outage.
 - (a) The following information shall be included in the VLTrader outage notification:
 - (i) VLTrader outage start date and time and expected end date and time
 - (ii) description of the VLTrader outage
 - (iii) actions required by the connecting parties during or after the VLTrader outage
 - (iv) contact person or group for questions or concerns
- (3) Changes to VLTrader outage duration shall be communicated and, if the length of the VLTrader outage is unknown, regular updates about the outage shall be sent.
- (4) During a VLTrader outage market participants should repeat connection attempts for sending and receiving files until connection is restored. Market participants that do not continue to attempt connection risk their transactions being processed late.