

BILLING and PAYMENTS

Executive Summary

This section presents a summary of the business practices for billing and payment processing in competitive electric and natural gas markets where alternative energy providers, known as Suppliers, sell natural gas or electricity to end use Customers. The Supplier provides the energy by purchasing or producing it and arranges for its delivery by the Distribution Company to the retail Customer.

Billing and payment processing encompasses a variety of interactions between the meter reading entity, the Billing Party and the Non-Billing Party. Interactions include the transfer of data necessary to accurately bill and process payments received from the Customer for energy, transmission/transportation and distribution related charges. In a business environment where best practices are voluntary, model business practices should be applied within the context of regulatory requirements and agreements between the parties documented in a Billing Services Agreement. The primary steps are:

- The usage data is obtained;
- Charges are calculated for both the energy and transmission/transportation and distribution charges based on the same Customer usage for the period;
- Charges are billed to the Customer
 - Dual Billing
 - Consolidated Billing
 - Supplier Consolidated Billing-Bill Ready
 - Supplier Consolidated Billing-Rate Ready
 - Distribution Company Consolidated Billing-Bill Ready
 - Distribution Company Consolidated Billing-Rate Ready
 - Single Retail Supplier Billing
- Payments are collected from the Customer;
- Payments are forwarded to the Non-Billing Party when Consolidated Billing is used;
 - Assumption of Receivables
 - Pay As You Get Paid

Introduction

The North American Energy Standards Board (NAESB) is a voluntary non-profit organization comprised of members from all aspects of the natural gas and electric industries. Within NAESB, the Retail Electric Quadrant (REQ) and the Retail Gas Quadrant (RGQ) focus on issues impacting the retail sale of energy to end-use customers. REQ / RGQ Model Business Practices are intended to provide guidance to Distribution Companies, Suppliers, and other Market Participants involved in providing competitive energy service to end-use Customers. The focus of these Model Business Practices is the processing of billing and payment transactions.

These Model Business Practices are voluntary and do not address policy issues that are the subject of state legislation or regulatory decisions. These Model Business Practices have been adopted with the realization that as the industry evolves, additional and amended Model Business Practices may be necessary. Any industry participant seeking additional or amended Model Business Practices (including principles, definitions, data elements, process descriptions, and technical implementation instructions) should submit a request to the NAESB office, detailing the change, so that the appropriate process may take place to amend the Model Business Practice.

Business Processes and Practices

RXQ.3 Overview

RXQ.3.1 Principles

RXQ.3.2 Definitions

- RXQ.0.2.1 Applicable Regulatory Authority:** The state regulatory agency or other local governing body that provides oversight, policy guidance, and direction to any parties involved in the process of providing energy to retail access Customers through regulations and orders.
- RXQ.0.2.3 Assumption of Receivables:** The payment processing method in which the Billing Party assumes the Non-Billing Party's receivables and sends the Non-Billing Party payment at predetermined intervals for all Non-Billing Party amounts that are billed, payable to the Non-Billing Party, and do not have a status of In Dispute, in accordance with the tariff, Billing Services Agreement or other Governing Document regardless of when (or whether) the Customer pays the Billing Party.
- RXQ.0.2.4 Bill Ready:** A Consolidated Billing practice in which the Billing Party receives the calculated charge amount(s) directly from the Non-Billing Party in lieu of the Billing Party calculating it directly from the rate.
- RXQ.0.2.5 Billing Party:** The party performing billing services for one or more parties.
- RXQ.0.2.6 Billing Services Agreement:** A legally binding document between the Distribution Company and the Supplier used when one of the parties is performing Consolidated Billing for the other party. Such document sets forth the expectations and responsibilities of each party.
- RXQ.0.2.7 Business Day:** As defined in the Governing Documents.
- RXQ.0.2.12 Consolidated Billing:** The billing option in which the Distribution Company or Supplier renders a Customer bill consolidating the energy, transmission / transportation and distribution charges of the Distribution Company and the Supplier, for which a single payment from the Customer is expected.

RXQ.0.2.16 Customer: Any entity that takes gas and/or electric service for its own consumption.

RXQ.0.2.17 Distribution Company: A regulated entity which provides distribution services and may provide energy and/or transmission/transportation services in a given area.

RXQ.0.2.20 Dual Billing: The billing option in which the Distribution Company and Supplier render separate Customer bills for the products and services each provides.

RXQ.0.2.22 Governing Documents: Documents that determine the interactions among parties, including but not limited to: regulatory documents (e.g., tariffs, rules, regulations), contractual agreements, and Distribution Company operational manuals.

RXQ.0.2.25 In Dispute: A bill status that prevents collection action from being taken on the disputed amount.

RXQ.0.2.27 Market Participant: A party engaged in the process of providing competitive retail energy to end-use customers including but not limited to the Distribution Company, the Supplier, the Registration Agent, the settlement agent, and the meter reading entity.

RXQ.0.2.30 Non-Billing Party: The party whose charges are being combined into a statement (or invoice) prepared and rendered by another party.

RXQ.0.2.31 Pay As You Get Paid: The payment processing method in which the Billing Party forwards payment to the Non-Billing Party for the Non-Billing Party charges only after receiving payment.

RXQ.0.2.33 Rate Code: A product identifier used in a billing system which contains all information, such as description and price, needed to bill for that product. One or more Rate Codes may be billed on a single account.

RXQ.0.2.34 Rate Ready: Refers to the practice in which the Non-Billing Party provides rate information to the Billing Party sufficient to calculate the Non-Billing Party's charges.

RXQ.0.2.35 Registration Agent: An entity facilitating switches and performing record keeping for a specified geographical area.

RXQ.0.2.37 Service Delivery Point: A physical metered and/or unmetered service location supplying energy to a Customer premise.

RXQ.0.2.38 Single Retail Supplier Billing: The billing option in which the Supplier renders a Customer bill for all energy, transmission/transportation, and distribution related charges. The Supplier purchases or otherwise acquires energy, transmission/transportation and distribution services, and therefore all charges on the bill are Supplier charges. A single payment from the Customer is expected.

RXQ.0.2.39 Supplier: Persons engaged in the competitive sale of energy to end-users.

RXQ.0.2.42 Uniform Electronic Transaction: Standard data arrangements for trading information, making business requests and exchanging other information, encompassing a number of electronic media and utilizing specified transport protocols.

RXQ.3.3 Model Business Practices

RXQ.3.3.1 General Billing and Payment

RXQ.3.3.1.1 The Supplier may elect to offer its Customers one or more of the billing options that are available in the Distribution Company's territory.

RXQ.3.3.1.2 Both Distribution Company and Supplier should be approved, certified or licensed, to the extent required by the Applicable Regulatory Authority and demonstrate the technical capability to exchange information electronically using Uniform Electronic Transactions and to meet the operational time frames which have been defined to support the billing options required.

RXQ.3.3.1.3 The Supplier should provide adequate advance notice to the Distribution Company if it plans to implement another available, approved billing option. Such option should not become operational until proof of successful data interchange is demonstrated to the satisfaction of both parties and all requirements are met.

RXQ.3.3.1.4 When making changes to its billing or payment systems that may affect electronic data interchange, the Supplier or Distribution Company making those changes should

provide advance notice to the other party prior to implementation.

RXQ.3.3.1.5 Required metering data that are necessary to fulfill billing responsibilities should be made available to all appropriate party(s) via Uniform Electronic Transactions.

RXQ.3.3.1.6 Applicable state and local taxes will be calculated, collected, and remitted in accordance with state statutes and local government ordinances.

RXQ.3.3.1.7 The cancel and re-bill process should be clear and reproducible, and be communicated to all affected parties.

RXQ.3.3.2 Dual Billing

RXQ.3.3.2.1 The Distribution Company and the Supplier each acts as a Billing Party and should independently produce and render separate bills directly to the Customer in accordance with the requirements set by the Applicable Regulatory Authority.

RXQ.3.3.2.2 The Customer should make two separate payments; one to the Distribution Company and one to the Supplier.

RXQ.3.3.2.3 When meter usage is cancelled:

- Usage for all applicable periods should be cancelled by metering period; and
- The usage sent in the cancellation transaction should match the usage sent in the original transaction.

RXQ.3.3.2.4 When meter usage is restated:

- Usage for all applicable periods should be restated by metering period; and
- Unless there has been a product or rate change, the restated usage transaction should be sent at the same level of detail as the original usage transaction.

RXQ.3.3.3 Consolidated Billing - General

RXQ.3.3.3.1 Either the Distribution Company or the Supplier should assume the role of either Billing Party or Non-Billing Party provided that applicable regulatory or legal criteria are met.

RXQ.3.3.3.2 The Billing Party and Non-Billing Party should execute a Billing Services Agreement. The responsibilities of the parties, performance parameters, financial arrangements and other details associated with payment processing and remittance should be set forth in the Billing Services Agreement.

RXQ.3.3.3.3 The Billing Party should render a consolidated bill in accordance with the requirements set by the Applicable Regulatory Authority and any agreements set forth in the Billing Services Agreement.

RXQ.3.3.3.4 When the Supplier is the Billing Party it should be responsible for delivering to Customers bill enclosures or bill messages containing Non-Billing Party related information that is mandated by the Applicable Regulatory Authority.

RXQ.3.3.3.5 When a consolidated bill is rendered there should be one Customer payment due date.

RXQ.3.3.4 Consolidated Billing - Bill Ready Billing

RXQ.3.3.4.1 The Billing Party should receive the Non-Billing Party's billing information via Uniform Electronic Transaction within two (2) Business Days following the meter reading entity's transmission of valid usage information.

RXQ.3.3.4.2 When the Non-Billing Party files are received, the Billing Party should acknowledge receipt of a file via Uniform Electronic Transaction within one (1) Business Day of receipt of the file.

RXQ.3.3.4.3 If, upon examination, it is determined that the Non-Billing Party's file cannot be processed then the Billing Party should reject it. Rejection, accompanied by appropriate uniform error code(s), should be communicated via the appropriate Uniform Electronic Transaction within one (1) Business Day of receipt of the file.

RXQ.3.3.4.4 If the Non-Billing Party's transaction is accepted, the Billing Party should bill the Customer(s) within two (2) Business Days of receipt of such transaction.

RXQ.3.3.4.5 When the Billing Party is able to process the Non-Billing Party's transactions but is unable to render a significant number of Customer bills within two (2) Business Days of receipt of the Non-Billing Party's charges, the Billing Party should promptly notify the Non-Billing Party.

RXQ.3.3.4.6 If the Non-Billing Party's transactions are received within the appropriate time frame and a transaction is rejected, then the Billing Party should notify the Non-Billing Party of the rejection accompanied by appropriate uniform error code(s), via Uniform Electronic Transaction within one (1) Business Day of receipt of such transaction. The Non-Billing Party may, if time permits, submit a file containing corrected transactions for inclusion in the current bill.

RXQ.3.3.4.7 If the Non-Billing Party's transactions are sent to the Billing Party outside the appropriate time frame such that charges could not be included on the bill, then, as specified in the Billing Services Agreement, the Billing Party should do one of the following:

- Reject the transaction and notify the Non-Billing Party within two (2) Business Days via Uniform Electronic Transaction that the charges were not billed. In this scenario, the Non-Billing Party should resubmit its charges in the following billing period in accordance with the time requirements, or
- Hold the transaction for processing on the next bill and notify the Non-Billing Party that charges were received late and will be reflected on the next bill.

RXQ.3.3.4.8 If the Billing Party's errors cause the Non-Billing Party's charges to miss the billing window and the bill has been issued, the Billing Party should cancel and reissue the bill as soon as practicable, unless the Billing Party and Non-Billing Party arrange a mutually agreeable alternative bill correction process.

RXQ.3.3.4.9 When a Bill Ready consolidated bill is to be cancelled:

- Usage for all applicable periods should be cancelled by metering period; and
- The usage sent in the cancellation transaction should match the usage sent in the original transaction.

RXQ.3.3.4.10 When a cancelled Bill Ready consolidated bill is to be re-billed:

- Usage for all applicable periods should be restated by metering period. Unless there has been a product or rate change, the restated usage transaction should be sent at the same level of detail as the original usage transaction; and
- The Billing Party should receive the Non-Billing Party's restated billing information within two (2) Business Days following the transmission of valid restated usage information.

RXQ.3.3.4.11 Both the Billing Party and the Non-Billing Party should be responsible for the calculation of their late payment charges, if applicable, unless directed otherwise by the Applicable Regulatory Authority or as specified in the Billing Services Agreement. The Billing Party should be responsible for placing these charges on the bill.

RXQ.3.3.4.12 When the Non-Billing Party calculates and assesses late payment charges it should send notification of such charges to the Billing Party via Uniform Electronic Transaction.

RXQ.3.3.5 Consolidated Billing - Rate Ready Billing

RXQ.3.3.5.1 At least thirty (30) calendar days prior to using a new Rate Code, or as otherwise provided in the Billing Services Agreement, the Non-Billing Party should provide to the Billing Party information needed to establish the new Rate Code.

RXQ.3.3.5.2 Where the Billing Party's system can accommodate a price change to an existing Rate Code the Non-Billing Party should provide the new price and the requested effective date to the Billing Party at least ten (10) Business

Days prior to the next billing date, or a lesser period of time as provided in the Billing Services Agreement, to allow sufficient time for the Billing Party to implement the change.

RXQ.3.3.5.3 The Billing Party will send a Uniform Electronic Transaction when accounts of the Non-Billing Party are billed thus notifying the Non-Billing Party that its Customers have been billed and indicating the usage and amount so billed for each Customer account.

RXQ.3.3.5.4 When a Rate Ready consolidated bill is to be cancelled:

- Usage for all applicable periods should be cancelled by metering period; and
- The usage sent in the cancellation transaction should match the usage sent in the original transaction.

RXQ.3.3.5.5 When a cancelled Rate Ready consolidated bill is to be re-billed:

- Usage for all applicable periods should be restated by metering period. Unless there has been a product or rate change, the restated usage transaction should be sent at the same level of detail as the original usage transaction;
- The Billing Party should re-bill the Customer by applying the proper usage and proper Billing and Non-Billing Party Rate Code(s) as necessary to correct the previously rendered bill; and
- After the cancel/re-bill event has taken place, the Billing Party should transmit notice of restated usage and the credit, debit, or the net amount, to the Non-Billing Party so that the accounts receivable of the Customer will be properly stated.

RXQ.3.3.5.6 The Billing Party should calculate late payment charges on behalf of the Non-Billing Party, if applicable, using the same methodology used to calculate its own late payment charges, unless directed otherwise by the Applicable Regulatory Authority or as specified in the Billing Services Agreement. The Billing Party should be responsible for placing these charges on the bill.

RXQ.3.3.6 Single Retail Supplier Billing

RXQ.3.3.6.1 The Supplier should render its bill in accordance with the requirements set by the Applicable Regulatory Authority.

RXQ.3.3.6.2 When meter usage is cancelled:

- Usage for all applicable periods should be cancelled by metering period; and
- The usage sent in the cancellation transaction should match the usage sent in the original transaction.

RXQ.3.3.6.3 When meter usage is restated:

- Usage for all applicable periods should be restated by metering period; and
- Unless there has been a product or rate change, the restated usage transaction should be sent at the same level of detail as the original usage transaction.

RXQ.3.3.6.4 If the Supplier does not receive actual meter reading data on a timely basis, the Supplier may issue a bill based on an estimated reading.

RXQ.3.3.6.5 After the meter(s) is read or the usage is otherwise determined, the Distribution Company should render an invoice that separately identifies the delivery system charges and billing determinants for each Service Delivery Point or Customer account served by the Supplier. Invoices should be transmitted via Uniform Electronic Transaction.

RXQ.3.3.6.6 Distribution Company invoices are subject to adjustment due to estimated reads or errors including, but not limited to, arithmetic errors, computational errors, and meter reading errors. The Distribution Company should cancel and re-bill the original invoice that was incorrect.

RXQ.3.3.6.7 Having assumed the obligation to pay the Distribution Company within the acceptable time frame for amounts owed the Distribution Company, the Supplier should have the flexibility to change billing and payment practices subject only to applicable laws, regulatory requirements,

or as otherwise allowed in any agreement between the parties regarding terms and conditions for energy delivery.

RXQ.3.3.6.8 The Supplier may elect either to accept charges other than usage-based charges or to have the Distribution Company bill those charges directly to the Customer.

RXQ.3.3.7 Payment Processing – Consolidated Billing – General

RXQ.3.3.7.1 If the Non-Billing Party does not receive payment for undisputed charges from the Billing Party within the appropriate time frame, then the Non-Billing Party should send notification to the Billing Party of the interest and/or fees, if any, applicable to the un-remitted amount. Such notification should be sent via Uniform Electronic Transaction and in accordance with the terms and conditions of the Billing Services Agreement or pursuant to the requirements of the Applicable Regulatory Authority. Remittance of interest and/or fees, if any, should be made by electronic means to a financial institution designated by the Non-Billing Party.

RXQ.3.3.7.2 The Billing Party, upon placing the Non-Billing Party's charges In Dispute, should, within one (1) Business Day, notify the Non-Billing Party of the subject and amount In Dispute, in a manner specified in the Billing Services Agreement.

RXQ.3.3.7.3 The Non-Billing Party, upon placing its charges In Dispute, should, within one (1) Business Day, notify the Billing Party of the subject and amount In Dispute, in a manner specified in the Billing Services Agreement.

RXQ.3.3.7.4 Once a dispute is resolved and the charges are no longer In Dispute, the party resolving the dispute should notify the other party of the resolution, in a manner specified in the Billing Services Agreement.

RXQ.3.3.7.5 Where charges have been placed In Dispute, payments should be applied against charges that are not In Dispute first unless otherwise directed by the Applicable Regulatory Authority.

RXQ.3.3.7.6 When there is a change in Billing Party, the Non-Billing Party's balance should not be transferred to the new Billing Party unless mutually agreed upon by all of the affected Billing Parties and Non-Billing Parties.

RXQ.3.3.7.7 If a Customer enters into a multi-month payment arrangement for all or a portion of the bill, it is the responsibility of the party entering into such agreement with the Customer to maintain proper accounting for such transaction. Neither the Billing Party nor the Non-Billing Party should enter into such an agreement for amounts owed to the other party, unless otherwise directed by the Applicable Regulatory Authority or specified in the Billing Services Agreement.

RXQ.3.3.8 Payment Processing – Consolidated Billing – Assumption of Receivables

RXQ.3.3.8.1 The Billing Services Agreement should specify any level of uncollectible revenues to be reflected in the amount due to the Non-Billing Party.

RXQ.3.3.8.2 The Billing Services Agreement should specify any creditworthiness criteria that the Non-Billing Party's Customers would have to satisfy to be eligible for a consolidated bill.

RXQ.3.3.8.3 On or before the date the payment is due to the Non-Billing Party, the Billing Party should send a Uniform Electronic Transaction notifying the Non-Billing Party of account-specific payments to be made. By mutual agreement, the Billing Party may send account-specific information along with the remittance of funds in an electronic certification to the bank in lieu of, or in addition to, direct notification to the Non-Billing Party.

RXQ.3.3.8.4 The Billing Party forwards payment for all undisputed charges to the Non-Billing Party within five (5) Business Days of the due date stated on the Customer's bill or as specified in the Billing Services Agreement.

RXQ.3.3.8.5 The Billing Party remittance of funds should be made by electronic means to a bank designated by the Non-Billing Party.

RXQ.3.3.8.6 In the circumstance where the Distribution Company is the Billing Party, it can reject an enrollment transaction that specifies Consolidated Billing if the Customer does not satisfy the creditworthiness criteria specified in the appropriate Governing Documents. The ability to reject an enrollment transaction may be subject to the requirements of the Applicable Regulatory Authority. If the enrollment is rejected for these reasons, the Non-Billing Party may resubmit the enrollment transaction and specify Dual Billing.

RXQ.3.3.8.7 When the Distribution Company is the Billing Party it may initiate conversion of a Customer to Dual Billing or to the applicable regulated energy supply service, in accordance with the Billing Services Agreement and the requirements of the Applicable Regulatory Authority, when a threshold of overdue payments or delinquencies is reached. The following practices should be used:

- Prior to conversion, the Billing Party may notify the Non-Billing Party of the status of overdue payments or delinquencies; and
- In addition to any notice that may be required to be sent to the Customer, the Billing Party should notify the Non-Billing Party, via Uniform Electronic Transaction, of the effective date of the conversion.

RXQ.3.3.8.8 Return of the Customer to Consolidated Billing should be at the discretion of the Billing Party and subject to the creditworthiness criteria set forth in the Billing Services Agreement.

RXQ.3.3.8.9 When Non-Billing Party charges are placed In Dispute under the Assumption of Receivables payment processing method:

- The Billing Party should withhold payment to the Non-Billing Party of the amount In Dispute; or
- If the Billing Party has made payment of the disputed charges, the Billing Party should initiate a Uniform Electronic Transaction to reverse the payment of the disputed charges. The process for addressing negative transactions resulting from the reversal of

payments of disputed charges should be specified in the BSA.

RXQ.3.3.9 Payment Processing – Consolidated Billing – Pay as You Get Paid

RXQ.3.3.9.1 Each Business Day the Billing Party should process and post funds received.

RXQ.3.3.9.2 The Billing Party should process payments in accordance with a predetermined payment posting order as established by the Applicable Regulatory Authority or as agreed to in the Billing Services Agreement.

RXQ.3.3.9.3 Within one (1) Business Day after posting a payment to the Customer's account, the Billing Party should send a Uniform Electronic Transaction notifying the Non-Billing Party of account-specific payments due to be remitted to the Non-Billing Party.

RXQ.3.3.9.4 The Billing Party should remit to the Non-Billing Party funds associated with Customer payments posted for all undisputed Non-Billing Party charges within two (2) Business Days or as specified within the rules established by the Applicable Regulatory Authority or as agreed to in the Billing Services Agreement. Remittance of funds should be made by electronic means to a financial institution designated by the Non-Billing Party. By mutual agreement between the parties, the Billing Party may send account-specific information with the remittance of funds in an electronic transaction to the financial institution in lieu of, or in addition to, direct notification to the Non-Billing Party.

RXQ.3.3.9.5 When a Customer's payment that was previously transmitted to the Non-Billing Party is reversed or adjusted by the Billing Party, the Billing Party should adjust the Customer's account accordingly and send notification of the adjustment to the Non-Billing Party via Uniform Electronic Transaction within one (1) Business Day.

RXQ.3.3.9.6 The Billing Party should maintain a current and past due balance for each active account of the Non-Billing Party.

RXQ.3.3.9.7 The Billing Party should carry forward any inactive Non-Billing Party arrears on a bill, consistent with requirements of the Applicable Regulatory Authority, or as outlined in the Billing Services Agreement. If amounts remain unpaid, the Billing Party should forward a Uniform Electronic Transaction to the Non-Billing Party to return any outstanding arrears as specified in the Billing Services Agreement or as required by the Applicable Regulatory Authority.

RXQ.3.3.10 Payment Processing – Single Retail Supplier Billing

RXQ.3.3.10.1 On or before the date the payment is due to the Distribution Company, the Supplier should send a Uniform Electronic Transaction notifying the Distribution Company of account-specific payments to be made. By mutual agreement, the Supplier may send account-specific information along with the remittance of funds in an electronic certification to the bank in lieu of, or in addition to, direct notification to the Distribution Company.

RXQ.3.3.10.2 The Supplier remittance of funds should be made by electronic means to a bank designated by the Distribution Company.

RXQ.3.3.10.3 If the Distribution Company does not receive payment for undisputed charges from the Supplier within the appropriate time frame, then the Distribution Company should send notification to the Supplier of the interest and/or fees, if any, applicable to the un-remitted amount. Such notification should be sent via Uniform Electronic Transaction and in accordance with the terms and conditions of the Billing Services Agreement or pursuant to the requirements of the Applicable Regulatory Authority. Remittance of interest and/or fees, if any, should be made by electronic means to a financial institution designated by the Distribution Company.

RXQ.3.3.10.4 When there is a change in Supplier, the Customer's balance should not be transferred to the new Supplier.

RXQ.3.4 Models

The following model agreements can be found in RXQ.6 – Contracts:

RXQ.6.4 Billing Services Agreement For Consolidated Billing



RXQ.3.4 Models**IR/TEIS Issue List for BPS Consideration**

ID	DESC
IR005 (BW)	Triage request for MBP's for 'Reversal' versus 'Cancel' of charges
IR009 (GB)	Add 'Taxing Entity' to bill ready.
TEIS01	Add standards for 'Customer ID' ; to identify how a Customer is uniquely identified in a marketplace. Will be either LDC account number or ESIID depending on marketplace. Must be one or the other.
TEIS02	Add standards for 'Customer Name' as 'Customer Name as maintained by the Billing Party'
TEIS03	
	<u>Do we need 'RATE' in Invoices ?</u>

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RXQ.3.4 Models

RXQ.3.4 MODELS

No models defined at this time.

RXQ.3.5 Related Standards

RXQ.3.5 RELATED STANDARDS

Entity ID Common Codes

??others

RXQ.3.6.1 Usage

RXQ.3.6 TECHNICAL IMPLEMENTATION

This section provides technical details for the implementation of NAESB Billing and Payment transactions in support of deregulated energy marketplaces.

Customer ID

The 'Customer ID' data element is the unique identification of a Customer in a marketplace. In all NAESB market models, the Distribution Company assigns the Customer ID to a Customer.

Two models are supported for Customer ID:

- Account Number of the Distribution Company. In this marketplace model, the account number of the Distribution Company defines the unique Customer ID for a Customer.
- Service Delivery ID. In this marketplace model either a Distribution Company defines the unique Customer ID for a Customer using the ID for the service delivery location (e.g. ESI ID).

In cases where the Customer is not assigned to a Supplier, an additional data element is required to confirm that the Customer ID provided is correct. The ZIP Code for the Customer must be provided whenever the Supplier is not the Supplier of Record. This includes both Customer Information requests as well as initial enrollment requests.

Old Customer ID

NAESB marketplaces provide a vehicle in case a Distribution Company needs to change the Customer ID key for a Customer. For example, if the Distribution Company implements a new CIS system, they may need to assign new account numbers. If the Distribution Company uses this Account Number as the Customer ID, some cross-reference is needed between the old Customer ID and the new one. The Distribution Company should provide both the Old Customer ID and the current Customer ID in transactions for 90 days.

Non-Billing Party Account ID

NAESB marketplaces require Billing Parties and Registration Agents to store the Non-Billing Party Account ID if provided by the Non-Billing Party. For example, when a Supplier enrolls a Customer, they must include the Customer ID, but may also choose to include their Account ID from their internal systems. If provided, this Account ID should be echoed in all future transactions.

Commodity Service Type

NAESB marketplaces allow only one type of commodity (i.e. electric or gas) in a transaction.

Sender, Receiver, Distribution Company, Supplier, Registration Agent, Billing and Non-Billing Party

NAESB standards support transactions flowing in multiple directions, including:

- Usage can flow from Distribution Company to Registration Agent, Registration Agent to Supplier, and Distribution Company to Supplier
- Invoices and Payments can flow from Distribution Company to Supplier and Supplier to Distribution Company

NAESB practices are often worded using defined terms Billing Party and Non-Billing Party. While the Data Dictionary retains these terms, the Technical specifications (X12) do not use these terms and rather require that parties define themselves and their trading partners in each transaction as both:

- a) the type of entity (e.g. Distribution Company), and

RXQ.3.6.1 Usage

- b) whether the defined entity is the sender/submitter, or receiver.

Entity ID

Supplier Entity ID, Distribution Company Entity ID, Sender Entity ID, Receiver Entity ID, Billing Party Entity ID, Non-Billing Party Entity ID

NAESB marketplaces require trading partners to use Entity ID's in inner and outer transaction envelopes, including name segments such as the X12 N1 and NM1.

See 'Entity Common Code ID' in 'Related Standards' for more information.

Usage ID Cross Reference

The Usage ID data element serves as a cross reference between the Usage and the associated Invoice and Payment

In X12, these data elements are used for the cross-reference:

- 867 – BPT02 – This document establishes the Usage ID cross reference number.
- 810 – BIG05 – This document must have the cross reference number from the respective 867.
- 820 – REF6O (letter O) – When making the other party whole, the 820 to the non-billing party must also include the cross reference number from 867/810 document.

Service Period, Start Date, End Date

NAESB energy marketplaces use the Service Period to define discrete units. Usage is created and if necessary cancelled by Service Period dates, which include a Start Date and an End Date. Invoices are created, and if necessary cancelled, using the Service Period originally defined in the Usage transaction.

Restatements of both Usage and Invoice transactions are done using a new Service Period, which creates a new discrete unit.

Service Periods should be overlap from month to month. For example, last month's Service Period End Date should equal this month's Service Period Start Date.

Example:

	Service Period Start Date	Service Period End Date
First Report	DTM~150~20050501	DTM~151~20050601
Second Report	DTM~150~20050601	DTM~151~20050701

Meter exchanges

Usage information is divided into two separate reports when a meter is exchanged:

- The first report starts with the Service Period Start Date and ends with the Meter Exchange Date
- The second report starts with the Meter Exchange Date and ends with the Service Period End Date

??since overlap, which report gets overlapped date?

Example:

	Service Period Start Date	Meter Exchange Date	Service Period End Date
First Report	DTM~150~20010101	DTM~514~20010114	
Second Report		DTM~514~20010114	DTM~151~20010128

RXQ.3.6.1 Usage

Party Sending Bill & Calculating Charges

Technical specifications often require data elements that define billing model for the defined Customer. The table below summarizes the use of the Billing Party and Party Calculating Charges data elements, using X12 as an example.

Billing Model	Bills Customer	Calculates LDC Portion	Calculates ESP Portion	Billing Party REF*BLT	Calc. Party REF*PC
Distribution Company Rate Ready Consolidated	Distribution Company	Distribution Company	Distribution Company	LDC	LDC
Distribution Company Bill Ready Consolidated	Distribution Company	Distribution Company	Supplier	LDC	DUAL
Supplier Bill Ready, includes SRBO	Supplier	Distribution Company	Supplier	ESP	DUAL
Dual	Both	Distribution Company	Supplier	DUAL	DUAL

Meter Type

The Meter Type data element uses a five-character field to identify what the measure is reporting, and in what interval. The first two characters are the type of consumption/demand, the last three characters are the metering interval reported by the metering agent. Valid values can be a combination of the following values:

Type of Consumption	Metering Interval Reported for Billing Purposes
K1 Kilowatt Demand (kW)	[nnn] Number of minutes from 001 to 999
K2 Kilovolt Amperes Reactive Demand (kVAR)	DAY Daily
K3 Kilovolt Amperes Reactive Hour (kVARH)	MON Monthly
K4 Kilovolt Amperes (kVA)	
KH Kilowatt Hour (kWh)	

Examples:

KHMON kiloWatt hours Per Month
K1015 kiloWatt demand per 15 minute interval

RXQ.3.6.1 Usage

Frequently Answered Questions

Can transaction numbers have punctuation?

??ANSI X12 allows punctuation in transaction reference number data elements, however NAESB does not.

Which invoice data element is used in the Payment RMR02 data element?

The Invoice ID (BIG *02) should be in the RMR02 data element. The Customer ID is found in the REF segment in the RMR loop.

Why does NAESB use BIG07 =FB and PR instead of FE and ME?

NAESB has adopted ERCOT's BIG07 standards.

Why do standards use "telecommunication industry account"?

In many cases NAESB has adopted codes used by other industries. NAESB has been unable to delete or change those codes in the transaction guideline generation tool (EDISIM).

Should the REF*BLT Billing Party data element be marked as business conditional, since some jurisdictions require it or is this not necessary?

No, NAESB requires it.

When is the IT1 RATE loop used?

In Single Retail Bill Option only.

What if my system cannot accept signed values (SAC05, SAC08 and SAC10, RMR08)?

??

TXI*104, 105 What is the rationale for eliminating these values? Why would we need them?

??

Does NAESB require that payors the entire 820 when payment is 0 or negative? Hold any debit or multiple debits that cannot be satisfied by the accumulated daily credits? Should we specify one business day?

??

TRN01 – Is there a reason we decided only to use the value '3' in this element and eliminate '1'?

??

Is the Payment 820 cross-reference (REF*6O) to Usage required under all circumstances or only when making the non-billing party whole?

All circumstances

RXQ.3.6.1 Usage

Is there a movement towards using the commodity (REF*QY) data element?

Yes, because of support for both electric and gas.

Why does the 248 Write Off use REF~X0 instead of REF~12 for the Customer ID?

REF*X0 is what is currently in production in a number of markets.

RXQ.3.6.1 Usage

RXQ.3.6.1: BILLING USAGE

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.2.3, RXQ.3.3.2.4, RXQ.3.3.1.5, RXQ.3.3.4.9, RXQ.3.3.4.10, RXQ.3.3.5.4, RXQ.3.3.5.5, RXQ.3.3.6.2

The Billing Usage transaction is the inter-company communication that itemizes energy consumption or demand for a given period of time, used to determine invoice charges. The transaction reflects usage from actual meter reads, estimated meter reads, interval meter reads, unmetered usage, and usage used by the meter reader for billing. Billing Usage is not used to communicate historical usage.

The Billing Usage transaction supports all market billing models (Dual billing, consolidated bill-ready and rate ready, and single retailer billing option).

The types of usage transactions supported by Billing Usage in retail energy markets are:

- Monthly usage
- Interval usage
- Summarized interval usage
- Cancel usage (all of the above can be cancelled)

Each Billing Usage transaction can include any of the following categories of Usage:

- Summary (X12=PTD*SU)
- Non-Interval Detail (X12=PTD*PL) – Monthly usage, including time of use, additive/subtractive, missing/abundance consumption,
- Unmetered Services Summary (X12=PTD*BC)
- Unmetered Services Detail (X12=PTD*BD)
- Net Interval Usage Summary (X12=PTD*IA)
- Interval Usage Summary Across Meters (X12=PTD*PP)
- Interval Summary (X12=PTD*BO)
- Interval Detail (X12=PTD*PM)

The **Sender** of the transaction is either the meter reading entity (MRE), the distribution company (LDC), or a central registration agent (e.g. ERCOT). The **Receiver** of the usage could be a supplier/retailer, a distribution company or a central registration agent (e.g. ERCOT).

The usage is identified by the **Usage ID (UUID; formerly 'Reference Number ID')**. This Usage ID is assigned by the originator of the usage UET – either the MRE or the LDC. If usage is cancelled, the **Original Usage ID indicates the specific Usage ID to be cancelled**.

The Usage ID is echoed in any invoice or payment UET's that use this usage, establishing a thread to tie these transactions together for involved parties.

Each original Billing Usage header contains:

- Final Indicator
- Sender Common Code ID
- Sender Name
- Customer Account ID
- Customer Name
- Customer Name Overflow
- Non-Billing Party Invoice Due Date
- Receiver ID

RXQ.3.6.1 Usage

- Receiver Name
- Receiver Account ID
- Original Usage ID
- Party Calculating Bill
- Party Sending Bill
- Purpose = 'Original'
- Usage ID
- Report Type Code
- Service Type
- Transaction Date

Each original Billing Usage can contain multiple detail records. Each detail record contains:

- Ending/Single Reading
- Quantity
- Summary Level
- Unit of Measure
- Interval End Date Time
- Measurement Reference ID
- Service Period End Date
- Service Period Start Date
- Therm Factor
- Transformer Loss Multiplier
- Usage Detail Category
- Usage Code

If providing information at a meter level, each original Billing Usage detail contains, if available:

- Beginning Reading
- Meter Multiplier
- Meter Consumption Type
- Meter Interval Type
- Meter Number
- Meter Role
- Number of Dials / Digits
- Power Factor
- Pressure Correction Factor
- Primary Metering Indicator

In addition to the above detail elements, each original Billing Usage interval usage transaction has a interval detail record for each interval, as defined by **Meter Consumption Type** and **Meter Report Period**, including:

- Interval Date
- Interval Time
- Interval Quantity
- Interval Unit of Measure

Each cancel Billing Usage includes **Purpose Code = 'Cancel'**, the Usage ID trace number to the original transaction, and the same data found in the original Billing Usage transaction.

Reissuing cancelled usage is treated as original usage.

RXQ.3.6.1 Usage

This section describes the purpose of each Category of usage reported, which depends on the characteristics of the Customer account.

Monthly Billed Summary Information (X12:PTD=BB): This section is always required for every type of account, and reports what was billed by the party reading the meters, usually the Distribution Company.

Non-Interval Metered Services Information (X12: PTD01 = SU, PL) – These sections are used to report usage for metered data, at both a detail level by meter by unit of measure, and at a summary level for all meters.

Non-Interval Metered Services Summary (X12:PTD01=SU): This section sums to the account level by kWh and KVARH. The Summary report is not provided for kW or KVAR. Data is obtained from the metering system. If you have two meters and each meter measures kW and kWh, you will send one Summary report, with kWh readings from Meter 1 and Meter 2 summed.

Non-Interval Metered Services Detail (X12:PTD01=PL): There will be one Non-interval detail report for:

- each meter for each unit of measure
- missing or abundance of consumption
- meter exchange before: includes the Service Period Start Date and the Meter Exchange Date
- meter exchange after: includes the Meter Exchange Date and the Service Period End Date.

For Additive/Subtractive Metering Only: This report is also used for Additive/Subtractive Metering when the Master Meter is on one Customer ID and the additive and/or subtractive meters are on Customer IDs that are different than the master Meter. All additive usage is summed. All subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage. When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Additive/Subtractive usage must be provided in the PTD06 by using code "AI" or code "AO".

For Missing or Abundance of Non-Interval Consumption: This report is also used to report missing or abundance of consumption when the consumption (added or subtracted) provided has not been registered by the meter, for example: tampering, fast, slow and/or flat/bypass. The conditions exist only for non-interval meters on the same Customer ID. The meter number must be provided, as well as the type of missing or abundance consumption. The receiver must add or subtract this consumption.

Interval Metered Services Information (X12: PTD01 = BO, PM) – These sections are used to report usage for interval metered data, at both a detail level by meter by unit of measure by interval time, and at a summary level for all meters.

Interval Metered Services Summary (X12: PTD01=BO): This section sums to the account level by kWh and KVARH. The Summary report is not provided for kW or KVAR. Data is obtained from the metering system. If you have two meters and each meter measures kW and kWh, you will send one Summary report, with kWh readings from Meter 1 and Meter 2 summed.

RXQ.3.6.1 Usage

Metered Services Detail (X12=PTD01=PL): This section has reports for one or more meters for each unit of measure. Data is obtained from the metering system. In the case of one meter reporting one unit of measure (kWh), the PTD01=PM will be the same as the PTD01=SU and both must be provided.

Unmetered Services Information (X12=PTD01 = BC) – This report is usage for any unmetered portion of an account. This information must be provided at the summary level (X12=PTD01=BC). Total Consumption for all unmetered services at the account level. Even though some of the consumption may be estimated, the consumption is reported as actual for unmetered services. The summary is required at this time for Unmetered Services.

Cancellations

- Usage Cancellations are by metering period, i.e. same as the original Usage. Restated original Usage transactions may be for multiple periods.
- The “from” and “to” dates on the Cancel must match exactly with the original usage.
- On a cancellation, the signs are not reversed (don't change positive usage to negative usage). Quantities will not be negative on Cancels. Cancels should be interpreted as negative consumption.
- The consumption sent in the cancel must match the consumption sent in the original transaction.
- Cancels must be sent at the same level of detail as the original usage.
- There is a cross reference between billing related documents.

Additive & Subtractive Metering

Type of Metering	Description
Additive Metering	Additive Usage for Additive meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable additive meters.
Subtractive Metering	Subtractive Usage for Subtract meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable subtractive meters.
Added Flat /Bypass	Missing or Abundance of Consumption. For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption for the meter.
Added Slow- Missing or Abundance of Consumption	For adjusting consumption when the added consumption provided has not been registered by the meter. The conditions exist only for non-interval meters on the same Customer ID. The receiver must add this consumption for the meter.
Subtracted Fast- Missing or Abundance of Consumption	For adjusting consumption when the subtracted consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must subtract this consumption for the meter.
Added Tampering- Missing or Abundance of Consumption	For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption for the meter.

Transformer Loss Factor. Where the delivery point is prior to the transformation such that the Customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater than unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness.

Where the delivery point is after the transformation such that the Customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less than unity. E.g. 0.995, to reflect a negative adjustment to the meter reads.

Interval Time. Interval reads require the time of the read. Most meter reading software applications use the ending period time to record a read: e.g. 0015 (12:15 AM) is the first 15-minute read of the day; 2400 (12:00 AM) is the last.

RXQ.3.6.1 Usage

X12 does not allow 2400 as a valid time. Parties are required to submit 2359 (11:59 PM) as the time for the last read of the day. For example, midnight between October 15th and October 16th is reflected as 2359 of October 15th.

RXQ.3.6.1 Usage**Sample Paper Transaction**

Usage Header	
Usage Date:	20040413
Usage ID:	04132004TR4877
Original Usage ID:	
Purpose:	Original
Final Indicator:	No
Sender Name:	Distribute-It Incorporated
Sender Common Code ID:	123456789
Receiver Name:	Sell-It Incorporated
Receiver Entity ID:	546897321
Total KWH Billed	4,000
Total KW Billed	20
Total KVA Billed	18

Category	Meter #	Service Period Start Date	Service Period End Date	Interval End Time	Actual/ Estimated	Unit of Measure	Quantity
IU	12345678	20040410	20040509	0015	Actual	KW	200
IU	12345678	20040410	20040509	0030	Estimated	KW	

Category	Meter #	Service Period Start Date	Service Period End Date	Actual/ Estimated	Unit of Measure	Quantity
MU	23456789	20040410	20040509	Actual	KWH	200
MU	23456789	20040410	20040509	Estimated	KWH	

RXQ.3.6.1 Usage**Data Dictionary**

[??insert from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancellation]
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	M		
Usage Date	Date this transaction was created by the sender's application system.	M		
Report Type Code	Defines if usage is reported at interval, non-interval or mixed	M		[Interval, Non-Interval, Mixed]
Final Indicator	Indicates whether this is a final usage	M		[Yes, No]
Original Usage ID	The UUID from the original transaction provides a cross-reference; used only to cancel the original	C	[M] when Purpose='Reverse' or 'Cancel'	
Non-Billing Party Invoice Due Date	The last date invoices will be accepted by the Billing Party for inclusion on the bill	RBC	CBBR only	
Receiver Entity ID	Receiver's Entity Common Code ID (e.g. DUNS Number)	M		
Receiver Entity Name	Receiver Name	M		
Sender Entity ID	Common Code ID (DUNS Number or DUNS+4 Number or other mutually-agreed upon number) of the party that initiates the transaction.	M		
Sender Name	Name of the trading partner that initiates the transaction.	M		
Service Period Start Date	Previous Meter Reading Date	M		
Service Period End Date	Current Meter Reading Date	M		
Customer Name	Customer Name	M		
Receiver Customer Account ID	Receiver Customer Account ID assigned by the Receiver. Not the Customer ID.	RBC	BR: sent if previously received by Non-Billing Party	
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Party Sending Bill	Identifies party sending the bill to the Customer	RBC		[Distribution Company, DUAL, Supplier]
Party Calculating Bill	Identifies party calculating the Non-Billing Party Charges	RBC		[Distribution Company, DUAL, Supplier]
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Power Region	Reliability Council	RBC		
Usage Detail Category	Code that defines what type of detailed usage is reported	M		[Non-Interval Metered, Interval Metered, Summary Interval, Unmetered, Billed]
Billed Demand	Demand Customer was actually billed. Billed (derived) Demand is based on contract or rate minimum and may be different than measured demand.	M		
Billed Consumption	Consumption Customer was billed	M		
Measured Demand	Measured Demand	M		
Interval Meter Read End Time	Timestamp for end of interval read	C	[M] when ReportType='INTERVAL'	
Interval Meter Exchange Date	Date meter was exchanged	M		
Interval Meter Read Transformer Loss	Transformer Loss Multiplier. When a Customer owns a	C	[M] when this measure is available	

Use Legend: **M** = Mandatory; **C** = Conditional; **SO**=Sender's Option; **BC**=Business Conditional; **RBC**=Retail Business Conditional

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RXQ.3.6.1 Usage

Data Elem. Name	Description	Use	Condition	Comments [Options]
Multiplier	transformer and the transformer loss is not measured by the meter.			
Interval Meter Read Multiplier	Represents the number of units that are reflected by one dial or digit increment. Can be multiple multipliers per meter	C	[M] when ReportType='METER'	
Interval Meter Read Power Factor	Relationship between Watts and Volt - Amperes necessary to supply electric load	C	[M] when this measure is available	
Interval Meter Read Estimated Actual Flag	Flag identifying if beginning and ending meter reads are estimated or actual		[M] when ReportType ='METER'	[Beg / End actual; Beg actual / End estimated; Actual Total; As Billed; Beg est. / End actual; Beg est. / End est.]
Interval Meter Read Unit of Measure	Unit of measure for read	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Interval Meter Read Beginning	Value specifying beginning reading for the metering period.	C	[M] when ReportType ='METER'	
Interval Meter Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when ReportType ='METER'	
Interval Meter Quantity Usage Code	Code distinguishes between estimated usage and actual usage	M		[Actual, Estimated]
Interval Meter Quantity	Usage	M		
Interval Meter Quantity Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Interval Meter Channel Number	Interval Meter Channel Number	M		
Interval Meter Number of Dials / Digits	Number of meter dials or digits on the meter	C	[M] when Report Type ='METER'	X12 uses dials to left of decimal, digits to right of decimal
Interval Meter Role	Code that defines the effect of consumption on summarized total.	C	[M] when Report Type ='METER'	[Subtractive; Additive; Ignore]
Interval Meter ID	Serial number identifier for a specific interval meter	RBC		
Interval Meter Type	Meter Type			[See Meter Type Definition]
Interval Meter Rate Class	Rate Class	C		
Interval Meter Rate Subclass	Rate Subclass	C		
Interval Meter Summary Consumption	Total consumption on interval metered services			
Summary Interval Read End Time	Timestamp for end of interval read	C	[M] when ReportType='INTERVAL'	
Summary Interval Exchange Date	Date meter was exchanged	M		
Summary Interval Read Transformer Loss Multiplier	Transformer Loss Multiplier. When a Customer owns a transformer and the transformer loss is not measured by the meter.	C	[M] when this measure is available	
Summary Interval Read Multiplier	Represents the number of units that are reflected by one dial or digit increment. Can be multiple multipliers per meter	C	[M] when ReportType='METER'	
Summary Interval Read Power Factor	Relationship between Watts and Volt - Amperes necessary to supply electric load	C	[M] when this measure is available	
Summary Interval Read Estimated Actual Flag	Flag identifying if beginning and ending meter reads are estimated or actual		[M] when ReportType ='METER'	[Beg / End actual; Beg actual / End estimated; Actual Total; As Billed; Beg est. / End actual; Beg est. / End est.]

RXQ.3.6.1 Usage

Data Elem. Name	Description	Use	Condition	Comments [Options]
Summary Interval Read Unit of Measure	Unit of measure for read	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Summary Interval Read Beginning	Value specifying beginning reading for the metering period.	C	[M] when ReportType = 'METER'	
Summary Interval Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when ReportType = 'METER'	
Summary Interval Summary Consumption	Total consumption on interval metered services			
Summary Interval Quantity Usage Code	Code distinguishes between estimated usage and actual usage	M		[Actual, Estimated]
Summary Interval Quantity	Usage	M		
Summary Interval Quantity Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Summary Interval Number of Dials / Digits	Number of meter dials or digits on the meter	C	[M] when Report Type = 'METER'	X12 uses dials to left of decimal, digits to right of decimal
Summary Interval Role	Code that defines the effect of consumption on summarized total.	C	[M] when Report Type = 'METER'	[Subtractive; Additive; Ignore]
Summary Interval ID	Serial number identifier for a specific interval meter	RBC		
Summary Interval Type	Meter Type			[See Meter Type Definition]
Summary Interval Rate Class	Rate Class	C		
Summary Interval Rate Subclass	Rate Subclass	C		
Meter Add'l Info Code	Code used to define if the meter is 'behind the meter' (e.g. Cogen')	BC	[M] when meter is considered 'behind the meter']	[Behind the meter]
Pressure Correction Factor	Corrects for varying delivery pressures	C	[M] when ReportType= 'METER'	
Non-Interval Meter Read Therm Factor	Converts volumetric meter reading data to therm values	C	[M] when ReportType= 'METER' and ServiceType= 'GAS' and UnitMeasure = 'THERM'	
Non-Interval Meter Exchange Date	Date meter was exchanged	M		
Non-Interval Meter Read Transformer Loss Multiplier	Transformer Loss Multiplier. When a Customer owns a transformer and the transformer loss is not measured by the meter.	C	[M] when this measure is available	
Non-Interval Meter Read Multiplier	Represents the number of units that are reflected by one dial or digit increment. Can be multiple multipliers per meter	C	[M] when ReportType='METER'	
Non-Interval Meter Read Power Factor	Relationship between Watts and Volt - Amperes necessary to supply electric load	C	[M] when this measure is available	
Non-Interval Meter Read Estimated Actual Flag	Flag identifying if beginning and ending meter reads are estimated or actual	C	[M] when ReportType = 'METER'	[Beg / End actual; Beg actual / End estimated; Actual Total; As Billed; Beg est. / End actual; Beg est. / End est.]
Non-Interval Meter Read Unit of Measure	Unit of measure for read	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour, therms, ccf, mcf]
Non-Interval Meter Read Beginning	Value specifying beginning reading for the metering period.	C	[M] when ReportType = 'METER'	

Use Legend: **M** = Mandatory; **C** = Conditional; **SO**=Sender's Option; **BC**=Business Conditional; **RBC**=Retail Business Conditional

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RXQ.3.6.1 Usage

Data Elem. Name	Description	Use	Condition	Comments [Options]
Non-Interval Meter Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when ReportType ='METER'	
Non-Interval Meter Read Time Of Use	Code that defines whether this usage is on peak, off peak, or intermediate peak			[On Peak, Off Peak, Intermediate Peak, Total, Low]
Non-Interval Meter Number of Dials / Digits	Number of meter dials or digits on the meter	C	[M] when Report Type ='METER'	
Non-Interval Meter Role	Code that defines the effect of consumption on summarized total.	C	[M] when Report Type ='METER'	[Subtractive; Additive; Ignore]
Non-Interval Meter ID	Serial number identifier for a specific interval meter	RBC		
Non-Interval Meter Type	Type of usage that is reported. Consists of 2-digit prefix and 3-digit suffix. See 'X.X Meter Type Definition'.			[See Meter Type Definition]
Non-Interval Rate Class	Rate Class	C		
Non-Interval Rate Subclass	Rate Subclass	C		
Unmetered Quantity Usage Code	Code distinguishes between estimated usage and actual usage	M		[Actual, Estimated]
Unmetered Quantity	Unmetered Usage	M		
Unmetered Quantity Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes Hour, therms, ccf, mcf]

RXQ.3.6.1 Usage**Code Values Dictionary**

[??insert from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Actual Estimated Flag	Actual	Actual	QD
Actual Estimated Flag	Estimated	Estimated	KA
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Final Indicator	No	Not last usage to be sent by metering agent	[blank]
Final Indicator	Yes	Identifies last usage to be sent by metering agent	F
Meter Role (Non-Interval, Interval, Summary Interval)	Additive	Additive	A
Meter Role (Non-Interval, Interval, Summary Interval)	Ignore	Ignore	I
Meter Role (Non-Interval, Interval, Summary Interval)	Subtractive	Subtractive	S
Party Calculating Bill	Distribution Co	Distribution Co	LDC
Party Calculating Bill	Dual	Each party calculates own charges	DUAL
Party Calculating Bill	Retailer	Retailer	ESP
Party Sending Bill	Distribution Co	Distribution Co	LDC
Party Sending Bill	Dual	Each party sends bill to customer	DUAL
Party Sending Bill	Retailer	Retailer	ESP
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Actual Total	Total is actual reading	AF
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	As Billed	As Billed	BO
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg / End Actual	Beginning and Ending reading are actual readings	AA
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg / End Estimated	Beginning and Ending reading are estimated	EE
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg Actual / End Estimated	Beginning reading is actual reading; Ending reading is an estimate	AE
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg Estimated / End Actual	Beginning reading is estimated reading; Ending reading is actual	EA
Read Time of Use (Non-Interval, Summary Interval)	Intermediate Peak	Intermediate Peak	43
Read Time of Use (Non-Interval, Summary Interval)	Low	Low	66
Read Time of Use (Non-Interval, Summary Interval)	Off Peak	Off Peak	41
Read Time of Use (Non-Interval, Summary Interval)	On Peak	On Peak	42
Read Time of Use (Non-Interval, Summary Interval)	Total	Total	51
Read Unit of Measure	Ccf	??	??
Read Unit of Measure	Kilovolt Amperes	Kilovolt Amperes	K4
Read Unit of Measure	kilovolt Amperes Reactive Demand	kilovolt Amperes Reactive Demand	K2
Read Unit of Measure	Kilovolt Amperes Reactive Hour	Kilovolt Amperes Reactive Hour	K3
Read Unit of Measure	kiloWatt demand	kiloWatt demand	K1
Read Unit of Measure	Kilowatt Hour	kiloWatt hour consumption	KH
Read Unit of Measure	Mcf	??	??
Read Unit of Measure	Therms	Therms	??
Report Type Code	Interval	Interval	CI

RXQ.3.6.1 Usage

Data Element	Code Description	Code Definition	Code Value
Report Type Code	Mixed	Mixed	DR
Report Type Code	Non-Interval	Non-Interval	DD
Transaction Purpose	Cancellation	Cancellation	01
Transaction Purpose	Original	Original	00
Unmetered Unit of Measure	kiloWatt demand	kiloWatt demand	K1
Unmetered Unit of Measure	kiloWatt hour	kiloWatt hour consumption	KH
Unmetered Unit of Measure	Watts	Watts	99
Usage Detail Category	Billed	Usage actually billed to Customer by Billing Party	BB
Usage Detail Category	Interval	Interval usage detail	PM
Usage Detail Category	Interval Summary	Interval usage summarized by meter, time of use	BO
Usage Detail Category	Non-Interval	Non-interval usage summarized by meter, read period	PL
Usage Detail Category	Non-Interval Summary	Non-interval usage summarized by read period	SU
Usage Detail Category	Unmetered	Unmetered usage	BD

RXQ.3.6.1 Usage

X12 EDI Subtab

ASC X12 Mapping Guidelines

RXQ.3.6.1 Usage

867 NAESB RXQ.3.6.1 Usage for Billing

Functional Group ID=PT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
	050	DTM	Document Due Date (DTM~649)	C	1		
M	060	REF	Customer ID (REF~12/Q5)	M	1		
	060	REF	Non-Billing Party Account ID (REF~11)	C	1		
	060	REF	Old Customer ID (REF~45)	C	1		
	060	REF	Enrollment ID (REF~TN)	C	1		
M	060	REF	Party Sending Bill (REF~BLT)	M	1		
M	060	REF	Party Calculating Non-Billing Party Charges (REF~PC)	M	1		
	060	REF	Power Region (REF~SR)	C	1		
LOOP ID - N1						1	
M	080	N1	Name: Distribution Company (N1~8S)	M	1		
LOOP ID - N1						1	
	080	N1	Name: Registration Agent (N1~AY)	C	1		
LOOP ID - N1						1	
M	080	N1	Name: Supplier (N1~SJ)	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - PTD						1	
M	010	PTD	Monthly Billed Summary (PTD~BB)	M	1		
M	020	DTM	PTD~BB Service Period Start Date (DTM~150)	M	1		
M	020	DTM	PTD~BB Service Period End Date (DTM~151)	M	1		
LOOP ID - QTY						1	
M	110	QTY	PTD~BB Billed kiloWatt Hours (QTY~D1)	M	1		
LOOP ID - QTY						1	
M	110	QTY	PTD~BB Billed Demand (QTY~D1)	M	1		
LOOP ID - QTY						1	

RXQ.3.6.1 Usage

M	110	QTY	PTD~BB Measured Demand (QTY~QD)	M	1
LOOP ID - PTD					1
M	010	PTD	Non-Interval Summary (PTD~SU)	M	1
	020	DTM	PTD~SU Service Period Start Date (DTM~150)	C	1
	020	DTM	PTD~SU Service Period End Date (DTM~151)	C	1
	020	DTM	PTD~SU Exchange Date (DTM~514)	C	1
M	030	REF	PTD~SU Meter Type (REF~MT)	M	1
LOOP ID - QTY					>1
M	110	QTY	PTD~SU Quantity (QTY~QD)	M	1
M	160	MEA	PTD~SU Consumption (MEA~~PRQ)	M	1
LOOP ID - PTD					1
M	010	PTD	Non-Interval Detail (PTD~PL)	M	1
	020	DTM	PTD~PL Service Period Start Date (DTM~150)	C	1
	020	DTM	PTD~PL Service Period End Date (DTM~151)	C	1
	020	DTM	PTD~PL Exchange Date (DTM~514)	C	1
	030	REF	PTD~PL Number of Dials (REF~IX)	C	1
M	030	REF	PTD~PL Meter Role (REF~JH)	M	1
M	030	REF	PTD~PL Meter Type (REF~MT)	M	1
LOOP ID - QTY					>1
M	110	QTY	PTD~PL Quantity (QTY~QD)	M	1
M	160	MEA	PTD~PL Meter Reads (MEA~AA)	M	1
M	160	MEA	PTD~PL Transformer Loss Factor (MEA~~CO)	M	1
M	160	MEA	PTD~PL Meter Multiplier (MEA~~MU)	M	1
M	160	MEA	PTD~PL Power Factor (MEA~~ZA)	M	1
LOOP ID - PTD					1
M	010	PTD	Unmetered Services (PTD~BD)	M	1
M	020	DTM	PTD~BD Service Period Start Date (DTM~150)	M	1
M	020	DTM	PTD~BD Service Period End Date (DTM~151)	M	1
M	030	REF	PTD~BD Unmetered Service Type (REF~PRT)	M	1
LOOP ID - QTY					>1
M	110	QTY	PTD~BD Quantity of Unmetered Services (QTY~QD)	M	1
LOOP ID - PTD					1
M	010	PTD	Interval Summary (PTD~BO)	M	1
	020	DTM	PTD~BO Service Period Start Date (DTM~150)	C	1
	020	DTM	PTD~BO Service Period End Date (DTM~151)	C	1
	020	DTM	PTD~BO Exchange Date (DTM~514)	C	1
M	030	REF	PTD~BO Meter Role (REF~JH)	M	1
M	030	REF	PTD~BO Meter Type (REF~MT)	M	1
LOOP ID - QTY					>1
M	110	QTY	PTD~BO Quantity	M	1
M	160	MEA	PTD~BO Meter Reads (MEA~AA)	M	1
M	160	MEA	PTD~BO Transformer Loss Factor (MEA~~CO)	M	1
M	160	MEA	PTD~BO Meter Multiplier (MEA~~MU)	M	1
M	160	MEA	PTD~BO Power Factor (MEA~~ZA)	M	1

RXQ.3.6.1 Usage

		LOOP ID - PTD		1	
M	010	PTD	Interval Detail (PTD~PM)	M	1
	020	DTM	PTD~PM Service Period Start Date (DTM~150)	C	1
	020	DTM	PTD~PM Service Period End Date (DTM~151)	C	1
	020	DTM	PTD~PM Exchange Date (DTM~514)	C	1
M	030	REF	PTD~PM Channel Number (REF~6W)	M	1
M	030	REF	PTD~PM Meter Type (REF~MT)	M	1
M	030	REF	PTD~PM Meter Role (REF~JH)	M	1
		LOOP ID - QTY		>1	
M	110	QTY	PTD~PM Quantity	M	1
M	210	DTM	PTD~PM Interval End Time (DTM~194)	M	1

Summary:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	030	SE	Transaction Set Trailer	M	1		

RXQ.3.6.1 Usage**Segment:** **ST** Transaction Set Header**Position:** 010**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of a transaction set and to assign a control number**Syntax Notes:****Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).**Comments:****Notes:** REQUIRED

ST~867~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set 867 Product Transfer and Resale Report	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.1 Usage**Segment:** **BPT** Beginning Segment for Product Transfer and Resale**Position:** 020**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data**Syntax Notes:** 1 If either BPT05 or BPT06 is present, then the other is required.**Semantic Notes:** 1 BPT02 identifies the transfer/resale number.

2 BPT03 identifies the transfer/resale date.

3 BPT08 identifies the transfer/resale time.

4 BPT09 is used when it is necessary to reference a Previous Report Number.

Comments:**Notes:**

This beginning segment for Usage reports:

-Original versus Cancel status(BPT01)

-Usage ID (BPT02) and cross-reference to original Usage ID if this is a cancellation (BPT09)

-Date of transaction (BPT03)

-Whether interval, non-interval or both are being reported (BPT04)

-If this is the final usage for the Customer (BPT07)

REQUIRED

BPT~00~200102010001~20010131~DD

BPT~00~200102010001~20010131~DD~~~F

BPT~01~200102020001~20010131~DD~~~~~2001020100001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BPT01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			Contains original usage for the Customer. If usage is canceled and restated, the restatement is sent as an original.	
			01 Cancellation	
			Cancels usage previously reported for the Customer. This cancels the entire period of usage reported with Usage ID found in BPT09.	
Must Use	BPT02	127	Reference Identification	O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			A unique transaction identification number assigned by the originator of this transaction. ID must be unique over time, only contain uppercase letters (A to Z) and digits (0 to 9), and exclude punctuation (spaces, dashes, etc.).	
Must Use	BPT03	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
			Date that the data was processed by the sender's application system	

RXQ.3.6.1 Usage

Must Use	BPT04	755	Report Type Code	O ID 2/2
			Code indicating the title or contents of a document, report or supporting item	
			C1	Cost Data Summary
				Interval Meters
			DD	Distributor Inventory Report
				Non-interval metered and unmetered
			DR	Datalog Report
				Both Interval and Non-interval Meters/Unmetered
Dep	BPT07	306	Action Code	O ID 1/2
			Code indicating type of action	
				REQUIRED for Final Usage Statement
			F	Final
				Final meter read data being sent for this Customer. The Customer account is closed by the Distribution Company or the Customer switched to a new Supplier.
Dep	BPT09	127	Reference Identification	O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
				REQUIRED when BPT01=01 (cancel); this element contains the Usage ID from BPT02 of the transaction that is being cancelled

RXQ.3.6.1 Usage**Segment:** **DTM** Document Due Date (DTM~649)**Position:** 050**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Date the Non-Billing Party must provide the 810 transaction back to the Billing Party. In Bill Ready billing, the meter read party sends usage to the Non-Billing Party, who calculates their own portion of the bill and sends an invoice to the Billing Party

Transactions received by the Billing Party after this DTM~649 date and time require the Billing Party notify the Non-Billing Party via the 824 (Application Advice) to either

-resend the transaction during the next billing window, or

-do nothing; the Billing Party will hold the transaction until the next billing window

REQUIRED for Bill Ready

DTM~649~20020131~1800

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			649 Document Due	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Must Use	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
			HHMM, where H = Hours (00-23) and M = Minutes (00-59) in prevailing time at the meter controls. X12 does not allow 2400 for time; use 2359 to indicate 'midnight'.	
Used	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
			AT Alaska Time	
			CT Central Time	

RXQ.3.6.1 Usage

ET	Eastern Time
GM	Greenwich Mean Time
MT	Mountain Time
PT	Pacific Time
TT	Atlantic Time

RXQ.3.6.1 Usage

Segment:	REF Customer ID (REF~12/Q5)
Position:	060
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	ID that uniquely defines the Customer in marketplace. Governing document define whether REF~12 or REF~Q5 is REQUIRED - REF~12 uses REF02 for ID; usually LDC Account Number - REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT) REQUIRED REF~12~10111111234567890 REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPSRS

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which billing is rendered	
			Account number ID; sent in REF02	
			Q5 Property Control Number	
			Service Delivery ID (e.g. ESIID); sent in REF03	
Used	REF02	127	Customer Account ID; use when REF01=12	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Must Use	REF03	352	Customer SD ID; use when REF01=Q5	X AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.1 Usage**Segment:** **REF** Non-Billing Party Account ID (REF~11)**Position:** 060**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED when previously provided by Non-Billing Party

REF~11~10111111234567890

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **REF** Old Customer ID (REF~45)**Position:** 060**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED when Customer ID has changed in last 45 days

REF~45~10111111234567890

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			Identifies accounts being changed	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **REF** Enrollment ID (REF~TN)**Position:** 060**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1** At least one of REF02 or REF03 is required.
- 2** If either C04003 or C04004 is present, then the other is required.
- 3** If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1** REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Cross-reference ID to the value in BGN06 of the Enrollment or Drop Transactions sent from the Distribution Company to the Registration Agent.

REQUIRED on Final Usage in Centralized Registration marketplaces

REF~TN~1234567820010620

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification TN Transaction Reference Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage

Segment:	REF Party Sending Bill (REF~BLT)
Position:	060
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Identifies party sending the bill to the Customer. Valid REF~BLT values are: -LDC: the Distribution Company sends the Bill to the Customer -ESP: Supplier sends bill -DUAL: each party sends a bill to the Customer REQUIRED REF~BLT~ESP

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			BLT Billing Type	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **REF** Party Calculating Non-Billing Party Charges (REF~PC)**Position:** 060**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Identifies party calculating Non-Billing Party charges. Valid REF~PC values are:
 -LDC: Distribution Company calculates Non-Billing Party charges on the bill
 -ESP: the Supplier calculates the Non-Billing Party portion of the charges
 -DUAL: the Non-Billing Party calculates their own portion of the charges
 REQUIRED

REF~PC~DUAL

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification PC Production Code	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **REF** Power Region (REF~SR)**Position:** 060**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Power Region of the Customer ID
 REQUIRED in Centralized Registration marketplaces

REF~SR~ERCOT
 REF~SR~SERC
 REF~SR~SPP
 REF~SR~WSCC

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			SR Sales Responsibility	
			Power Region	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			ERCOT Electric Reliability Council of Texas	
			SERC Southwest Electric Reliability Council	
			SPP Southwest Power Pool	
			WSCC Western States Coordinating Council	

RXQ.3.6.1 Usage**Segment:** **N1** **Name: Distribution Company (N1~8S)****Position:** 080**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:**

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Distribution Company Name and Entity ID

REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~~41 (Distribution Company to the Registration Agent)

N1~8S~DISTRIBUTE-IT INC.~1~007909411 (Registration Agent to the Supplier)

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8S Consumer Service Provider (CSP)	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Distribution Company Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Distribution Company Entity ID	
Dep	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			41 Submitter	

RXQ.3.6.1 Usage**Segment:** **N1** **Name: Registration Agent (N1~AY)****Position:** 080**Loop:** N1 Conditional**Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Registration Agent Name and Entity ID

REQUIRED when the Registration Agent receives the usage

N1~AY~REGISTER-IT INC.~1~888777888~~40 (Distribution Company to the Registration Agent)

N1~AY~REGISTER-IT INC.~1~888777888~~41 ((Registration Agent to the Supplier)

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			AY Clearinghouse	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Registration Agent Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Registration Agent Entity ID	
Must Use	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	

RXQ.3.6.1 Usage**Segment:** **N1** **Name: Supplier (N1~SJ)****Position:** 080**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Supplier Name and Entity ID

REQUIRED

N1~SJ~SUPPLY LTD~9~007909422CRN1~~40

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Supplier Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Supplier Entity ID	
Dep	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	

RXQ.3.6.1 Usage**Segment:** **PTD** **Monthly Billed Summary (PTD~BB)****Position:** 010**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data**Syntax Notes:** 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Monthly Billed Summary PTD~BB set of information is obtained from the billing system to reflect the data that the Customer will see on the bill

PTD loops may be sent in any order

REQUIRED. One Monthly Billed Summary PTD~BB set is required for every Customer.

PTD~BB

Data Element Summary

Must Use	Ref.	Data			Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
	PTD01	521	Product Transfer Type Code		M ID 2/2
			Code identifying the type of product transfer		
			BB	Demand Information Only	
				No physical transfer of material occurs; historical demand information is provided for record purposes only	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~BB Service Period Start Date (DTM~150)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period Start Date

REQUIRED except in second of two meter exchange PTD loops

DTM~150~20050101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time 150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~BB Service Period End Date (DTM~151)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in first of two meter exchange PTD loops

DTM~151~20050131

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **QTY** PTD~BB Billed kiloWatt Hours (QTY~D1)**Position:** 110**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify quantity information**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.**Comments:****Notes:** Billed kiloWatt Hours as shown on the Customer's bill. May or may not be the same as measured kilowatt hours.
REQUIRED

QTY~D1~22348~KH

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	QTY01	673 Quantity Qualifier	M ID 2/2
		Code specifying the type of quantity	
		D1 Billed	
Must Use	QTY02	380 Quantity	M R 1/15
		Numeric value of quantity	
Must Use	QTY03	C001 Composite Unit of Measure	M
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
		Note this is a composite data element, populate C00101	
Must Use	C00101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		KH Kilowatt Hour	

RXQ.3.6.1 Usage**Segment:** **QTY** PTD~BB Billed Demand (QTY~D1)**Position:** 110**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify quantity information**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.**Comments:****Notes:**

REQUIRED if Customer ID has measured demand KW. This must be sent even if billed/derived demand is equal to measured demand.
QTY~D1~22~K1

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			D1 Billed	
			Used when Quantity in QTY02 is a "Billed" quantity.	
Must Use	QTY02	380	Quantity	M R 1/15
			Numeric value of quantity	
Must Use	QTY03	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			Note this is a composite data element, populate C00101	
Must Use	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			K1 Kilowatt Demand	
			kW	

RXQ.3.6.1 Usage**Segment:** **QTY** PTD~BB Measured Demand (QTY~QD)**Position:** 110**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify quantity information**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.**Comments:****Notes:** REQUIRED if account measures kiloWatt demand (KW)
QTY~QD~14~K1**Data Element Summary**

	Ref. Des.	Data Element	Name	Attributes
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			KA Estimated	
			QD Quantity Delivered	
			Actual	
Must Use	QTY02	380	Quantity	M R 1/1
			Numeric value of quantity	
Must Use	QTY03	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			Note this is a composite data element, populate C00101	
Must Use	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			K1 Kilowatt Demand	

RXQ.3.6.1 Usage

Segment: **PTD** Non-Interval Summary (PTD~SU)
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.
 2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:

Comments:

Notes: Non-Interval Summary PTD~SU All reports consumption and demand summarized by unit of measure. There will be one Non-interval detail PTD~SU loop for
 -each meter for each unit of measure

 One PTD~SU loop is provided (if measured) for coincidental peak demand
 REQUIRED for each meter for each unit of measure.

 PTD~SU

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	PTD01	521 Product Transfer Type Code	M ID 2/2
		Code identifying the type of product transfer	
		SU Summary	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~SU Service Period Start Date (DTM~150)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period Start Date

REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time 150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~SU Service Period End Date (DTM~151)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~SU Exchange Date (DTM~514)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Meter exchange date. There will be two PTD loops when a meter is exchanged.
 -The first PTD includes the Service Period Start Date and the Meter Exchange Date
 -The second PTD includes the Meter Exchange Date and the Service Period End Date
 REQUIRED when a meter is exchanged and the meter agent does not change.

First PTD:
 DTM~150~20010101
 DTM~514~20010114

Second PTD:
 DTM~514~20010114
 DTM~151~20010128

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			514 Transferred	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage

Segment:	REF PTD~SU Meter Type (REF~MT)
Position:	030
Loop:	PTD Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where:</p> <p>-xx is the type of consumption and,</p> <p>-yyy is the metering interval reported by the metering agent</p> <p>Type of Consumption Valid Values:</p> <p>-K1: Kilowatt Demand (kW)</p> <p>-K2: KiloVolt Amperes Reactive Demand (kVAR)</p> <p>-K3: KiloVolt Amperes Reactive Hour (kVARH)</p> <p>-K4: KiloVolt Amperes (kVA)</p> <p>-KH: Kilowatt Hour (kWh)</p> <p>Metering Interval Reported for Billing Purposes (yyy) Valid Values:</p> <p>-nnn: Number of minutes from 001 to 999</p> <p>-DAY: Daily</p> <p>MON:Monthly</p> <p>REQUIRED</p> <p>REF~MT~KHMON</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MT Meter Ticket Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **QTY** PTD~SU Quantity (QTY~QD)**Position:** 110**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify quantity information**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.**Comments:****Notes:**

Only one QTY loop is used when reporting time of use. Each individual time of use (i.e. On Peak kWh, Off Peak kWh, Mid Peak kWh, etc.) will be reported in separate MEAs under the QTY.

The QTY02 will equal the totalizer. If the totalizer is not measured, the QTY02 will equal the sum of the usage provided in the MEA03s.

REQUIRED: one QTY loop for each time of use (e.g. one for On Peak kWh, one for Off Peak, kWh, one for Total kWh, etc.)

QTY~QD~1000

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			Note: There may be scenarios where the Quantity Qualifier could be Estimated/KA while the MEA01 is not AA (Meter read-beginning actual/ending actual). ?? what are those scenarios??	
		KA	Estimated	
			Quantity is estimated; required when reporting missing or abundance of consumption	
		QD	Quantity Delivered	
			Quantity is actual	
Must Use	QTY02	380	Quantity	X R 1/15
			Numeric value of quantity	

RXQ.3.6.1 Usage

Segment:	MEA PTD~SU Consumption (MEA~~PRQ)
Position:	160
Loop:	QTY Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:	Total consumption after meter multiplier and transformer loss factor are applied. REQUIRED MEA~~PRQ~772~~~~51

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA02	738	Measurement Qualifier	M ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			PRQ Product Reportable Quantity	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
Must Use	MEA07	935	Measurement Significance Code	O ID 2/2
			Code used to benchmark, qualify or further define a measurement value	
		41	Off Peak	
		42	On Peak	
		43	Intermediate	
			Mid-Peak	
		51	Total	
			Totalizer/Total/Max (Demand)	
		71	Low	
			Summer Super On-Peak	

RXQ.3.6.1 Usage

Segment: **PTD** **Non-Interval Detail (PTD~PL)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.
 2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

There will be one Non-interval detail PTD~PL loop for
 -each meter for each unit of measure
 -missing or abundance of consumption
 -meter exchange before: includes the Service Period Start Date and the Meter Exchange Date
 -meter exchange after: includes the Meter Exchange Date and the Service Period End Date.

For Additive/Subtractive Metering Only:

This loop is also used to for Additive/Subtractive Metering when the Master Meter is on one Customer ID and the additive and/or subtractive meters are on Customer IDs that are different than the master Meter. All additive usage is summed. All subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage. When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Additive/Subtractive usage must be provided in the PTD06 by using code "AI" or code "AO".

For Missing or Abundance of Consumption - Non Interval:

This loop is also used to report missing or abundance of consumption when the consumption (added or subtracted) provided has not been registered by the meter, for example: tampering, fast, slow and/or flat/bypass. The conditions exist only for non-interval meters on the same Customer ID. The meter number must be provided in the PTD04 and PTD05. The type of missing or abundance consumption must be provided in the PTD06. The receiver must add or subtract this consumption from the meter number provided in the PTD05. Net usage for the Customer ID is provided in the PTD~SU Loop.

REQUIRED for each meter for each unit of measure.

PTD~PL~~~MG~1234568MG

PTD~PL~~~~~AO (used to report subtractive metering off a master meter)

PTD~PL~~~MG~1234568MG~MD (used to report tampering)

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2
			Code identifying the type of product transfer	
			PL Property Level Movement/Sale	
			Non-Interval Detail	
Dep	PTD04	128	Reference Identification Qualifier	X ID 2/3

RXQ.3.6.1 Usage

			Code qualifying the Reference Identification	
			MG	Meter Number
			Not used if the PTD06= "AO" or "AI"	
Dep	PTD05	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Meter Number	
			Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present.	
			Not used if the PTD06= "AO" or "AI".	
Used	PTD06	486	Product Transfer Movement Type Code	O ID 2/2
			To indicate the type of product transfer movement	
			RBC	
			To indicate the type of product transfer movement. This field is only used when reporting the type of Master/Additive usage, Master/Subtractive usage or missing or abundance of consumption adjustment. The receiver must add this consumption to the meter number provided in the PTD05.	
			AI	Adjustment In
			Additive Metering	
			Additive Usage for Additive meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable additive meters. When the PTD06 equals "AI", the REF~JH equals "A".	
			AO	Adjustment Out
			Subtractive Metering	
			Subtractive Usage for Subtract meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable subtractive meters. . When the PTD06 equals "AO", the REF~JH equals "S".	
			CD	Customer to Distributor
			Added Flat /Bypass - Missing or Abundance of Consumption	
			For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption to the meter number provided in the PTD05. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "CD", the REF~JH equals "A".	
			DC	Distributor to Customer
			Added Slow- Missing or Abundance of Consumption	

RXQ.3.6.1 Usage

DM

For adjusting consumption when the added consumption provided has not been registered by the meter. The conditions exists only for non-interval meters on the same Customer ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "DC", the REF~JH equals "A".

Distributor to Manufacturer

Subtracted Fast- Missing or Abundance of Consumption

MD

For adjusting consumption when the subtracted consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must subtract this consumption to the meter number provided in the PTD05. When the PTD06 equals "DM", the REF~JH equals "S".

Manufacturer to Distributor

Added Tampering- Missing or Abundance of Consumption

For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "MD", the REF~JH equals "A".

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~PL Service Period Start Date (DTM~150)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period Start Date

REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~PL Service Period End Date (DTM~151)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~PL Exchange Date (DTM~514)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Meter exchange date. There will be two PTD loops when a meter is exchanged.

-The first PTD includes the Service Period Start Date and the Meter Exchange Date

-The second PTD includes the Meter Exchange Date and the Service Period End Date

REQUIRED when a meter is exchanged and the meter agent does not change.

First PTD:

DTM~150~20010101

DTM~514~20010114

Second PTD:

DTM~514~20010114

DTM~151~20010128

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			514 Transferred	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage

Segment: **REF** PTD~PL Number of Dials (REF~IX)
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:

Number of dials on the meter displayed as a decimal where:
 -the number of dials is integer value (number to the left of the decimal point), and
 -the number of dials is the decimal value (number to the right of the decimal point)
 REQUIRED for meters with dials

REF~IX~6.0
 REF~IX~5.1
 REF~IX~4.2

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification IX Item Number	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **REF** PTD~PL Meter Role (REF~JH)**Position:** 030**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: Role defines whether to add, subtract or do neither with the value and the summarized total
REQUIRED

REF~JH~A

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification JH Tag	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		A	Additive	
			This consumption must be added to the summarized total	
		I	Ignore	
			This consumption did not contribute to the summarized total (do nothing)	
		S	Subtractive	
			This consumption must be subtracted from the summarized total	

RXQ.3.6.1 Usage

Segment:	REF PTD~PL Meter Type (REF~MT)
Position:	030
Loop:	PTD Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where:</p> <p>-xx is the type of consumption and,</p> <p>-yyy is the metering interval reported by the metering agent</p> <p>Type of Consumption Valid Values:</p> <p>-K1: Kilowatt Demand (kW)</p> <p>-K2: KiloVolt Amperes Reactive Demand (kVAR)</p> <p>-K3: KiloVolt Amperes Reactive Hour (kVARH)</p> <p>-K4: KiloVolt Amperes (kVA)</p> <p>-KH: Kilowatt Hour (kWh)</p> <p>Metering Interval Reported for Billing Purposes (yyy) Valid Values:</p> <p>-nnn: Number of minutes from 001 to 999</p> <p>-DAY: Daily</p> <p>MON:Monthly</p> <p>REQUIRED</p> <p>REF~MT~KHMON</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MT Meter Ticket Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage

Segment:	QTY PTD~PL Quantity (QTY~QD)
Position:	110
Loop:	QTY Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required. 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	

Quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 has not been adjusted for any additive/Master Meter, subtractive/Master Meter or missing or abundance of consumption occurring in the PTD~PL when the PTD06 has a valid code.

MEA with an MEA07 = "51" (total) is required.

"KA" - Estimate must be used when reporting missing or abundance of consumption.

REQUIRED: one QTY loop for each time of use (e.g. one for On Peak kWh, one for Off Peak, kWh, one for Total kWh, etc.)

QTY~QD~1000

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			Note: There may be instances where the Quantity Qualifier could be AO or QD while the MEA01 is not AA (Meter read-beginning actual/ending actual).	
			AO	Verified Receipts
				Verified as actual value
			KA	Estimated
				Quantity is estimated; required when reporting missing or abundance of consumption
			QD	Quantity Delivered
				Quantity is actual
Must Use	QTY02	380	Quantity	X R 1/15
			Numeric value of quantity	

RXQ.3.6.1 Usage

Segment:	MEA PTD~PL Meter Reads (MEA~AA)
Position:	160
Loop:	QTY Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:	<p>REQUIRED unless reporting Additive/Subtractive Metering Usage or Adjusted (missing or abundance) Consumption. (if the PTD06 equals "AI" , "AO", "CD", "DC", "DM", or "MD")</p> <p>MEA with an MEA07 = "51" (total) is required unless reporting Additive/Subtractive Metering Usage (the PTD06 equals "AI" or "AO", "CD", "DC", "DM", or "MD")</p> <p>MEA~AA~PRQ~1000~KH~1000~1100~51</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measurement applies	
			AA Meter reading-beginning actual/ending actual	
			AE Meter reading-beginning actual/ending estimated	
			EA Meter reading-beginning estimated/ending actual	
			EE Meter reading-beginning estimated/ending estimated	
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			PRQ Product Reportable Quantity	
			Consumption	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
			Total consumption after meter multiplier and transformer loss factor are applied.	
Must Use	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			Please note that this is a composite data element, populate C00101.	
Must	C00101	355	Unit or Basis for Measurement Code	M ID 2/2

RXQ.3.6.1 Usage

Use

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

K1 Kilowatt Demand

kW

K2 Kilovolt Amperes Reactive Demand

kVAR

K3 Kilovolt Amperes Reactive Hour

kVARH

K4 Kilovolt Amperes

kVA

KH Kilowatt Hour

kWh

Dep

MEA05

740

Range Minimum

X R 1/20

The value specifying the minimum of the measurement range

The Beginning read is required when C00101, element 355 Unit of Measure is equal to

"K3" - kVARH (KiloVolt Amperes Reactive Hour),

"K4" - kVA (KiloVolt Amperes)

"KH" - kWh (Kilowatt Hour).

The Beginning read is not used for

"K1" - kW (Kilowatt Demand)

"K2" - kVAR (KiloVolt Amperes Reactive Demand).

Must Use

MEA06

741

Range Maximum

X R 1/20

The value specifying the maximum of the measurement range

Ending read when C00101, element 355 Unit of Measure is equal to

"K3" - kVARH (KiloVolt Amperes Reactive Hour)

"K4" - kVA (KiloVolt Amperes)

"KH" - kWh (Kilowatt Hour)

Single read when

"K1" - kW (Kilowatt Demand)

"K2" - kVAR (KiloVolt Amperes Reactive Demand)

Must Use

MEA07

935

Measurement Significance Code

O ID 2/2

Code used to benchmark, qualify or further define a measurement value

41 Off Peak

42 On Peak

43 Intermediate

Mid-Peak

51 Total

Totalizer/Total/Max (Demand)

71 Low

Summer Super On-Peak

RXQ.3.6.1 Usage**Segment:** **MEA** PTD~PL Transformer Loss Factor (MEA~~CO)**Position:** 160**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.**Notes:** Transformer Loss Factor not measured by the meter.

Where the delivery point is prior to the transformation such that the Customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater than unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness.

Where the delivery point is after the transformation such that the Customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less than unity. E.g. 0.995, to reflect a negative adjustment to the meter reads.

The value in the field will always be a positive value

REQUIRED for ELECTRIC when the transformer loss is not measured by the meter

MEA~~CO~1.015 (format when the factor is positive)

MEA~~CO~.985 (format when the factor is negative)

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			CO Core Loss	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	

RXQ.3.6.1 Usage**Segment:** **MEA** PTD~PL Meter Multiplier (MEA~~MU)**Position:** 160**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.**Notes:** (Ending read - Beginning read) * Meter Multiplier = Billed Usage

If no meter multiplier, then populate with "1"

Format of the multiplier could be in the form of a fraction (e.g. 48.78432)

REQUIRED

MEA~~MU~1

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			MU Multiplier	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	

RXQ.3.6.1 Usage

Segment:	MEA PTD~PL Power Factor (MEA~~ZA)
Position:	160
Loop:	QTY Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:	Relationship between Watts and Volt - amperes necessary to supply electric load REQUIRED if measured MEA~~ZA~.95

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			ZA Power Factor	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	

RXQ.3.6.1 Usage**Segment:** **PTD** **Unmetered Services (PTD~BD)****Position:** 010**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data**Syntax Notes:** 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:**Comments:****Notes:** PTD = BD (Unmetered Services)

One PTD loop is required per device type per Customer account id. Total consumption for all unmetered services is at the unmetered device detail level. One loop is required for each unmetered device type per each unique wattage and/or lumen reported. Even though some consumption may be estimated, the consumption is reported as actual quantity delivered for unmetered services. The detail is required for Unmetered Services.

REQUIRED for each unmetered service type

PTD~BD

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
Must Use	PTD01	521 Product Transfer Type Code	M ID 2/2
		Code identifying the type of product transfer	
		BD Issue - Other Department	
		Unmetered Services Detail	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~BD Service Period Start Date (DTM~150)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period Start Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~BD Service Period End Date (DTM~151)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage

Segment:	REF PTD~BD Unmetered Service Type (REF~PRT)
Position:	030
Loop:	PTD Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>Provides additional information for the specified unmetered service. Includes type of device which this measurement loop references, additional text information which may be useful to the Supplier (e.g. a specific wattage of a light, additional text information for further clarification, etc.)</p> <p>REQUIRED if there are unmetered services on Customer account</p> <p>REF~PRT~MV~750 REF~PRT~SD~400 Company Owned REF~PRT~SD~400 Customer Owned REF~PRT~MV~Third party maintained facilities</p>

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			PRT Product Type	
			Defined Unmetered Service Type	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			RBC - see governing documents for valid unmetered type codes.	
			AN Antenna	
			AR Argon	
			BB Bill Boards	
			BS Bus Shelters	
			CU Cat Unit	
			ED Electronic Device	
			FL Fluorescent	
			HA Historical/Antique	
			IN Incandescent	
			LV Levys	
			MH Metal Halide	
			MV Mercury Vapor	
			OT Other Un-Metered	
			PA Power Analog node	
			PB Phone Booth	
			PO Phone Outlet	
			PS Pump Station	

RXQ.3.6.1 Usage

RR	Rail Road Crossings
SD	Sodium
TL	Traffic Lights
TR	Tranceiver
WM	Wallpacked Mercury Vapor
WS	Warning Sirens

Dep	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
			Used to provide additional clarification information to the Non-Billing Party for the unmetered service when necessary. Used to provide the specific wattage/lumens for a light	

RXQ.3.6.1 Usage**Segment:** **QTY** PTD~BD Quantity of Unmetered Services (QTY~QD)**Position:** 110**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify quantity information**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.**Comments:****Notes:**

Quantity is the total unmetered consumption per device type for the billable period. There is no PTD06 = "AI","A0","CD","DC","DM" or "MD" Adjusted Consumption in this loop. Billable quantity in the monthly usage may not match the invoiced quantity in the monthly invoice because of Distribution Company's tariff adjustments to the monthly invoice data.

REQUIRED: one QTY loop for each consumption quantity per device.

QTY~QD~2000~EA^^20^KH^^100

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity QD Quantity Delivered	
Must Use	QTY02	380	Quantity	X R 1/15
			Numeric value of quantity	
Must Use	QTY03	C001	Composite Unit of Measure	O
			Total consumption of unmetered device type	
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Note this is a composite data element, populate C00101	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	
Must Use	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Must Use	C00104	355	Unit or Basis for Measurement Code	O ID 2/2
			Number of unmetered devices for this specific Unmetered Service Type (as defined in the REF~PRT segment).	
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	
Must Use	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	

RXQ.3.6.1 Usage**Segment:** **PTD** Interval Summary (PTD~BO)**Position:** 010**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data**Syntax Notes:** 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Summary of monthly interval consumption at each meter. There will be separate PTD~BO loops to reflect summed adjusted consumption.

Individual intervals are not reported in the PTD~BO loop. The PTD~BO loop will never report KW or KVAR.

For Additive/Subtractive Metering Only:

This loop is also used for Additive/Subtractive Metering when the Master Meter is on one Customer ID and the additive and/or subtractive meters are on Customer ID that are different than the master Meter. All additive and subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage. When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Subtractive and/or Master/ Additive usage must be provided in the PTD06 by using code "AI" or code "AO". Distribution Companies provide for the Master/Subtractive or Master/Additive net intervals in the PTD~PP when the PTD~BO element PTD06 equals "AI" or "AO". No netted usage is reported in this Loop. The receiver must net the PTD~BO Loops to determine Master Meter usage.

Missing or Abundance of Consumption:

Not reported for Interval Meters.

REQUIRED for each meter for each unit of measure.

PTD~BO~~~MG~1234568MG

PTD~BO~~~~~AI (used to report Additive/Master metering usage)

PTD~BO~~~~~AO (used to report Subtractive/Master metering usage)

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2
			Code identifying the type of product transfer	
			BO Designated Items	
			Consumption across intervals and across the same unit of measure summarized at the meter level	
Dep	PTD04	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			MG Meter Number	
			Not used if the PTD06 = "AO" or "AI"	
Dep	PTD05	127	Reference Identification	X AN 1/30

RXQ.3.6.1 Usage

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Meter Number

Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present.

Not used if the PTD06 = "AO" or "AI".

Used**PTD06****486****Product Transfer Movement Type Code****O ID 2/2**

To indicate the type of product transfer movement

This field is only used when reporting the type of Master/Additive or Master/Subtractive usage. This indicates to the receiver that they will find the netted interval usage for the Master Meter the PTD~PP.

AI**Adjustment In****Additive Metering**

Additive Usage for Additive meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable additive meters. When the PTD06 equals "AI", the REF~JH equals "A".

AO**Adjustment Out****Subtractive Metering**

Subtractive Usage for Subtract meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable subtractive meters. . When the PTD06 equals "AO", the REF~JH equals "S".

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~BO Service Period Start Date (DTM~150)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:**

Notes: Service Period Start Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~BO Service Period End Date (DTM~151)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~BO Exchange Date (DTM~514)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Meter exchange date. There will be two PTD loops when a meter is exchanged.
 -The first PTD includes the Service Period Start Date and the Meter Exchange Date
 -The second PTD includes the Meter Exchange Date and the Service Period End Date
 REQUIRED when a meter is exchanged and the meter agent does not change.

DTM~514~19990201 - 1st PTD

DTM~150~19990214

DTM~514~19990214 - 2nd PTD

DTM~151~19990228

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			514 Transferred	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **REF** PTD~BO Meter Role (REF~JH)**Position:** 030**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: Role defines whether to add, subtract or do neither with the value and the summarized total
REQUIRED

REF~JH~A

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			JH Tag	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		A	Additive	
			This consumption contributed to the summarized total (do nothing)	
		I	Ignore	
			This consumption did not contribute to the summarized total (do nothing)	
		S	Subtractive	
			This consumption must be subtracted from the summarized total	

RXQ.3.6.1 Usage

Segment:	REF PTD~BO Meter Type (REF~MT)
Position:	030
Loop:	PTD Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where:</p> <p>-xx is the type of consumption and,</p> <p>-yyy is the metering interval reported by the metering agent</p> <p>Type of Consumption Valid Values:</p> <p>-K1: Kilowatt Demand (kW)</p> <p>-K2: KiloVolt Amperes Reactive Demand (kVAR)</p> <p>-K3: KiloVolt Amperes Reactive Hour (kVARH)</p> <p>-K4: KiloVolt Amperes (kVA)</p> <p>-KH: Kilowatt Hour (kWh)</p> <p>Metering Interval Reported for Billing Purposes (yyy) Valid Values:</p> <p>-nnn: Number of minutes from 001 to 999</p> <p>-DAY: Daily</p> <p>MON:Monthly</p> <p>REQUIRED</p> <p>REF~MT~KHMON</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MT Meter Ticket Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **QTY** PTD~BO Quantity**Position:** 110**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify quantity information**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.**Comments:****Notes:**

Quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 has not been adjusted for any master/additive/ subtractive meter usage.

Quantity is sent with a minimum of two digits and a maximum of four digits to the right of the decimal point, e.g., 525.15; 567.1375, etc., while adhering to the ANSI rules for providing Real numbers. For instance, if the quantity reported is:

525	then the QTY02 is reported as	525
525.1275	then the QTY02 is reported as	525.1275
525.12	then the QTY02 is reported as	525.12
525.10	then the QTY02 is reported as	525.1
0	then the QTY02 is reported as	0

Leading zeros are suppressed and trailing zeros are truncated.

REQUIRED

QTY~QD~746

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			KA Estimated	
			Quantity is estimated	
			QD Quantity Delivered	
			Quantity is actual	
Must Use	QTY02	380	Quantity	X R 1/15
			Numeric value of quantity	

RXQ.3.6.1 Usage

Segment:	MEA PTD~BO Meter Reads (MEA~AA)
Position:	160
Loop:	QTY Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:	Total (MEA with an MEA07 = "51") is required unless reporting Additive/Subtractive Metering Usage (the PTD06 equals "AI" or "AO"). REQUIRED unless reporting Additive/Subtractive Metering Usage. (if the PTD06 equals "AI" or "AO").
	MEA~AF~~~KH~9500~10231~51

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measurement applies AF Actual Total	
Must Use	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use) This is a composite data element, please populate C00101	
Must Use	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K3 Kilovolt Amperes Reactive Hour kVARH KH Kilowatt Hour kWh	
Dep	MEA05	740	Range Minimum	X R 1/20
			The value specifying the minimum of the measurement range Beginning Read; Required when C00101 equals "KH" - kWh (Kilowatt Hour).	
Must Use	MEA06	741	Range Maximum	X R 1/20
			The value specifying the maximum of the measurement range Ending Read.	
Must	MEA07	935	Measurement Significance Code	O ID 2/2

RXQ.3.6.1 Usage

Use

Code used to benchmark, qualify or further define a measurement value

51

Total

Totalizer/Total/Max (Demand)

RXQ.3.6.1 Usage**Segment:** **MEA** PTD~BO Transformer Loss Factor (MEA~~CO)**Position:** 160**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.**Notes:** Transformer Loss Factor not measured by the meter.

Where the delivery point is prior to the transformation such that the Customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater than unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness.

Where the delivery point is after the transformation such that the Customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less than unity. E.g. 0.995, to reflect a negative adjustment to the meter reads.

The value in the field will always be a positive value
REQUIRED for ELECTRIC when the transformer loss is not measured by the meter

MEA~~CO~1.015 (format when the factor is positive)

MEA~~CO~.985 (format when the factor is negative)

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			CO Core Loss	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	

RXQ.3.6.1 Usage**Segment:** **MEA** PTD~BO Meter Multiplier (MEA~~MU)**Position:** 160**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.**Notes:** (Ending read - Beginning read) * Meter Multiplier = Billed Usage

If no meter multiplier, then populate with "1"

Format of the multiplier could be in the form of a fraction (e.g. 48.78432)

Meter Multipliers for IDR Meters can be quite large. Format allows for eight digits to the left of the decimal and five digits to the right of the decimal, e.g., 9999999.99999.

REQUIRED for all IDR Meters when meter reads are reported. Not provided for additive/subtractive meters when they are on a different SD ID than the Master Meter because meter reads are not reported.

MEA~~MU~20000000.12345

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			MU Multiplier	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	

RXQ.3.6.1 Usage**Segment:** **MEA** PTD~BO Power Factor (MEA~~ZA)**Position:** 160**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.**Notes:** Relationship between Watts and Volt - amperes necessary to supply electric load
REQUIRED if measured

MEA~~ZA~.95

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			ZA Power Factor	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	

RXQ.3.6.1 Usage

Segment: **PTD** Interval Detail (PTD~PM)
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

PTD = PM (Interval Detail)

REQUIRED when sending interval details. One PTD~PM loop is required for each meter channel for each unit of measure. Demand is not reported in the PTD~PM loop. This is the lowest level of detail.

PTD~PM~~~MG~1234568MG

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2
			Code identifying the type of product transfer	
			PM Physical Meter Information	
			Interval Detail	
Must Use	PTD04	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			MG Meter Number	
Must Use	PTD05	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Meter Number	
			Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present.	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~PM Service Period Start Date (DTM~150)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:**

Notes: Service Period Start Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~PM Service Period End Date (DTM~151)**Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:

Month 1	DTM~150~20010501	DTM~151~20010601
Month 2	DTM~150~20010601	DTM~151~20010701

REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage**Segment:** **DTM** **PTD~PM Exchange Date (DTM~514)****Position:** 020**Loop:** PTD Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 1**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Meter exchange date. There will be two PTD loops when a meter is exchanged.
 -The first PTD includes the Service Period Start Date and the Meter Exchange Date
 -The second PTD includes the Meter Exchange Date and the Service Period End Date
 REQUIRED when a meter is exchanged and the meter agent does not change.

DTM~514~19990201 - 1st PTD

DTM~150~19990214

DTM~514~19990214 - 2nd PTD

DTM~151~19990228

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time 514 Transferred	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Must Use	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM, where H = Hours (00 to 23) and M = Minutes (00 to 59). For this transaction, since X12 does not allow 2400 for time, 2359 will be used to indicate midnight. For example, midnight between October 15th and October 16th will be reflected as 2359 of October 15th.	
Used	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow AT Alaska Time CT Central Time	

RXQ.3.6.1 Usage

ET	Eastern Time
GM	Greenwich Mean Time
MT	Mountain Time
PT	Pacific Time
TT	Atlantic Time

RXQ.3.6.1 Usage**Segment:** **REF** PTD~PM Channel Number (REF~6W)**Position:** 030**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Channel Number

REQUIRED

REF~6W~2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification 6W Sequence Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage

Segment:	REF PTD~PM Meter Type (REF~MT)
Position:	030
Loop:	PTD Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where:</p> <p>-xx is the type of consumption and,</p> <p>-yyy is the metering interval reported by the metering agent</p> <p>Type of Consumption Valid Values:</p> <p>-K1: Kilowatt Demand (kW)</p> <p>-K2: KiloVolt Amperes Reactive Demand (kVAR)</p> <p>-K3: KiloVolt Amperes Reactive Hour (kVARH)</p> <p>-K4: KiloVolt Amperes (kVA)</p> <p>-KH: Kilowatt Hour (kWh)</p> <p>Metering Interval Reported for Billing Purposes (yyy) Valid Values:</p> <p>-nnn: Number of minutes from 001 to 999</p> <p>-DAY: Daily</p> <p>MON:Monthly</p> <p>REQUIRED</p> <p>REF~MT~KHMON</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MT Meter Ticket Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage**Segment:** **REF** PTD~PM Meter Role (REF~JH)**Position:** 030**Loop:** PTD Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: Role defines whether to add, subtract or do neither with the value and the summarized total
REQUIRED

REF~JH~A

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			JH Tag	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			A Additive	
				This consumption must be added to the summarized total
			I Ignore	
				This consumption did not contribute to the summarized total (do nothing)
			S Subtractive	
				This consumption must be subtracted from the summarized total

RXQ.3.6.1 Usage**Segment:** **QTY** PTD~PM Quantity**Position:** 110**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify quantity information**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.**Comments:****Notes:**

Quantity is the total measured interval consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 has not been adjusted for any additive and/or subtractive usage.

Quantity is sent with a minimum of two digits and a maximum of four digits to the right of the decimal point, e.g., 525.15; 567.1375, etc., while adhering to the ANSI rules for providing Real numbers. For instance, if the quantity reported is:

525	then the QTY02 is reported as	525
525.1275	then the QTY02 is reported as	525.1275
525.12	then the QTY02 is reported as	525.12
525.10	then the QTY02 is reported as	525.1
0	then the QTY02 is reported as	0

Leading zeros are suppressed and trailing zeros are truncated. Please refer to ANSI ASC X12 Version 004010 for further information on ANSI data elements, segments and loop usage and requirements.

REQUIRED

QTY~QD~22348

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			KA Estimated	
			Quantity is estimated	
			QD Quantity Delivered	
			Quantity is actual	
Must Use	QTY02	380	Quantity	X R 1/15
			Numeric value of quantity	

RXQ.3.6.1 Usage**Segment:** **DTM** PTD~PM Interval End Time (DTM~194)**Position:** 210**Loop:** QTY Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:** HHMM timestamp to define interval

REQUIRED

DTM~194~20010115~1500~ET

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			194 Period End	
			The date/time of the end of the interval	
Must Use	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
Must Use	DTM03	337	Time	M TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
			HHMM, where H = Hours (00 to 23) and M = Minutes (00 to 59). Since X12 does not allow 2400 for time, 2359 will be used to indicate 'midnight'	
Must Use	DTM04	623	Time Code	M ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
			The time code defines the time zone, including daylight savings time	
			AD Alaska Daylight Time	
			AS Alaska Standard Time	
			AT Alaska Time	
			CD Central Daylight Time	
			CS Central Standard Time	
			CT Central Time	
			ED Eastern Daylight Time	
			ES Eastern Standard Time	

RXQ.3.6.1 Usage

ET	Eastern Time
GM	Greenwich Mean Time
MD	Mountain Daylight Time
MS	Mountain Standard Time
MT	Mountain Time
PD	Pacific Daylight Time
PS	Pacific Standard Time
PT	Pacific Time
TD	Atlantic Daylight Time
TS	Atlantic Standard Time
TT	Atlantic Time
UT	Universal Time Coordinate

RXQ.3.6.1 Usage

Segment: **SE** Transaction Set Trailer
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Notes: REQUIRED

SE~42~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

RXQ.3.6.2: CONSOLIDATED BILL-READY INVOICE & SINGLE RETAIL BILL OPTION INVOICE

Technical Implementation Of Business Process

Related MBP's: RXQ..1.3.3.1, RXQ.3.3.4.2 through 1.3.4.12

The Consolidated Billing Bill-Ready Invoice transaction is the communication used by the non-billing party to transmit the billing components and amounts of charges to the billing party for presentation on the customer's bill. The billing party sends an invoice to the customer that displays both the billing and non-billing parties' charges.

The types of invoice transactions supported by Consolidated Bill-Ready Invoice in retail energy markets include:

- Monthly Invoice Original
- Monthly Invoice Cancel
- Final Invoice

The **Sender** and **Receiver** of the transaction is either the distribution company or the supplier/retailer.

The **Invoice Number ID (InvID)** identifies the invoice. This is a unique number assigned by the originator of the transaction.

The Non-Billing Party echoes in the invoice transaction the specific **Usage ID** originally transmitted with the usage information. The UUID links the usage, invoice and payment transactions together for tracking purposes.

Each Invoice Header contains the following:

- **Invoice Date**
- **Invoice ID**
- **Usage ID**
- **Purpose**
- **Final Indicator (when applicable)**
- **Billing Party Name**
- **Billing Party ID**
- **Non-Billing Party Name**
- **Non-Billing Party Entity ID**
- **Non-Billing Party Account ID (when applicable)**
- **Customer Name**
- **Customer ID**
- **BP Customer Previous Account Number**
- **Service Address**
- **Service Type**
- **Party Calculating Bill**
- **Party Sending Bill**
- **Non-Billing Party Rate Code**
- **Non-Billing Party Message to Customer**
- **Service Period Start Date**
- **Service Period End Date**
- **Transaction Date**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

- **Non-Billing Party Current Total Charges.**

Each Invoice can have multiple Charge Detail records. Each Invoice Detail contains the following:

- **Charge/Allowance Line Amount**
- **Charge/Allowance Line Category**
- **Charge/Allowance Credit/Debit Code**
- **Charge Allowance Line Description**
- **Charge Allowance Line Quantity**
- **Charge/Allowance Line Summary**
- **Charge/Allowance Line Unit of Measure.**

Each Single Retailer Billing Option (SRBO) Invoice Detail contains

- **Non-Billing Party Charge/Allowance Rate ID**
- **Non-Billing Party Charge/Allowance Rate Class**
- **Non-Billing Party Charge/Allowance Rate Subclass**

Each Invoice can have multiple Tax Detail records. Each Tax Detail contains the following:

- **Taxes**
- **Taxing Entity.**

Each cancel transaction includes **Purpose Code = Cancel**, the **UUID** trace number from the original Billing Usage transaction, and the same data found in the original Invoice transaction.

Reissuing an invoice is treated as an original invoice.

Invoice Sections

NAESB ?? Invoice uses a single section for Account charges and taxes, and does not support charges in separate 'Rate' or 'Unmetered' sections.

Budget Billing and Payment Plans

There is no current support for Budget Billing or Payment Plans.

Cancellations: Rate Ready

- The prior 810 will be sent (cancel by billing period), however, it is not necessary to include the BAL segments in Rate Ready LDC Consolidated Billing scenario.
- The values will be identical in sign to what they were on the original bill. The way to indicate the bill is being reversed is through the use of the BIG08 field – value "01".
- The rebill will always be coded as an original (BIG08 – "00")

LDC Consolidated with LDC Meter Read:

Some LDC's will cancel 810 charges when they cancel 867 usage. Others will not and will require the ESP to send back an 810 cancel if they want to cancel the corresponding charges. See the Notes Section for each State for each Bill Ready LDC's requirements

Usage ID Cross Reference

There is a cross reference between billing related documents.

- 867 – BPT02 – This document establishes the cross reference number.
- 810 – BIG05 – This document must have the cross reference number from the respective 867.

RXQ.3.6.2 Bill-Ready & SRBO Invoice

- 820 – REF60 (letter O) – When making the other party whole, the 820 to the non-billing party must also include the cross reference number from 867/810 document.

Bill Ready Scenario – Not directly related to usage

- ESP will send their 810 Reversal (BIG08 = “17”)
 - The service period dates must match original bill period
 - The total of reversed charges will show as a line item on the bill and must equal the total charges on the original 810.
- The cross-reference number (BIG05) must be provided.
- The 810 Reversal ((BIG08=17) can be received at any time prior to or in the same ISA as the Reissue (BIG08=“18”), however, the 810 Reissue (BIG08 = “18”) must be received during the billing window
- ESP will send their 810 Reissue (BIG08 = “18”)
 - The service period dates must match original bill period
 - New charges will be sent during the billing window
- The 810 Reissue must be received prior to the 810 current charges or in the same ISA envelope. (Sending at the same time does not guarantee that PECO will receive them at the same time unless they are in the same ISA envelope).
- ESP will send their 810 Current Charges (BIG08 = “00”)
 - All prior and current charges must be sent to LDC during current bill window

Missed Bill Windows

If the ESP does not get the 810 to the LDC in time for the charges to be added to the bill, the LDC will queue up received 810s until the next bill window opens.

Missed Bill Window and Switch Overlap

The following outlines the rules that apply when there is an ESP switch and the previous ESP misses the billing window:

- Once the switch has taken place the old ESP must bill the customer directly for previously unbilled ESP charges. An ESP reversal (BIG08=“17”) will be processed if it is received after the switch; however, a reissue (BIG08=“18”) must be billed to the Customer directly by the ESP.

Bill Ready - Cancel / Rebill due to usage

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF*OI
Utility sends Usage via 867	00	111				
Supplier sends 810 invoice	00			301	111	
Utility cancels usage via 867	01	112	111			
Supplier cancels original charge via 810	01			302	111	301
Utility sends restated charges via 867	00	113				
Supplier sends restated charges via 810	00			303	113	

Bill Ready - Supplier Initiated cancellation (not related to usage)

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF*OI
Utility sends Usage via 867	00	111				
Supplier sends 810 invoice	00			301	111	
Supplier cancels original charge via 810	17			302	111	301
Supplier sends restated charges via 810	18			303	111	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Sample Paper Transaction**

Invoice Header	
Invoice Date:	20040413
Invoice Number:	04132004TR4877
Usage Cross-Reference Number:	04132004MR8392
Invoice Purpose:	Original
Final Invoice Indicator:	No
Billing Party (BP) Name:	Distribute-It Incorporated
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Incorporated
NBP Entity ID:	546897321
BP Customer Name:	John Shoulders
Customer ID:	8473937UHFTR41304
BP Customer Previous Account Number or SDID:	
Service Type:	Electric
NBP Rate Code:	NBPR1
Service Period Start Date:	20040313
Service Period End Date:	20040412

Line Item Charges and Allowances						
Indicator	Category	Unit	Qty	Rate	Amt	Description
Charge	GEN002	KWh	500	\$0.100	\$50.00	Current Basic Generation - Consumption
Charge	DMD009	KW	20	\$1.000	\$20.00	Current Basic Generation - Peak Demand
Charge	LPC001		1	\$20.00	\$20.00	Late Payment Charge
Allowance	ADJ002		1	\$10.00	\$10.00	Adjustment to Last Bill
Charge	BAS001		1	\$0.750	\$0.75	Miscellaneous: Receivables Charge
Total of NBP Line Item Charges:					\$79.25	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Data Dictionary**

[??insert from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Invoice Date	Date this transaction was created by the sender's application system.	M		
Invoice ID	Unique number identifying this transaction, created by the originator of this transaction	M		
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	M		
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancellation]
Final Indicator	Indicates whether this is a final bill	M		[Yes, No]
Original Invoice ID	The unique number assigned to the original document, used only to cancel the original. When a transaction is cancelled, the Original Invoice ID is used as a cross-reference.	C	Send when Purpose is 'Reversal' or 'Cancellation'	
Current Total Charges	Sum of all current charges	M		
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Submitter/Receiver Code	Code that defines if a party is the submitter or the receiver of the invoice	M		
Service Period Start Date	Previous Meter Reading Date	M		
Service Period End Date	Current Meter Reading Date	M		
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Customer Name	Customer Name	M		
Service Location Address	Service Location Street Address	RBC		
Non-Billing Party Message To Customer	A text message the Non-Billing Party wants to appear on the Customer's bill	RBC		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	BC		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Old Customer ID used if Billing Party changes Customer ID	BC		

Use Legend: **M** = Mandatory; **C** = Conditional; **SO**=Sender's Option; **BC**=Business Conditional; **RBC**=Retail Business Conditional

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RXQ.3.6.2 Bill-Ready & SRBO Invoice

Data Elem. Name	Description	Use	Condition	Comments [Options]
Party Sending Bill	Identifies party sending the bill to the Customer	RBC		[Distribution Company, DUAL, Supplier]
Party Calculating Bill	Identifies party calculating the Non-Billing Party Charges	RBC		[Distribution Company, DUAL, Supplier]
Currency	Code that defines currency	M		[American \$, Canadian \$, pesos]
Rate Class	Non-Billing Party Rate Class	RBC	3:CADetail	??
Rate Subclass	Non-Billing Party Rate Subclass	RBC		
Chg/Allow Summary Level	Code that defines if the data is summarized by Account, Rate, SDID, Un-metered, or Meter.	M		[Account, Rate, SDID, Un-metered, Metered]
Chg/Allow Credit/Debit Code	Identifies if Line Item is allowance/credit, charge/debit or no charge	M		Allowance, Charge, No Charge
Chg/Allow Category	Code for the class of charge	M		[Adjustment, Budget, Late Payment, Miscellaneous, Payment Plan Charge, etc.]
Chg/Allow Amount	Dollar amount for the credit/debit	M		
Chg/Allow Rate	Non-Billing Party Rate	RBC		
Chg/Allow Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Each, Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour, therms, ccf, mcf]
Chg/Allow Quantity	Usage	M		
Chg/Allow Description	Line Item text that will print on the customer's bill	RBC		
Tax Type	Tax Type	RBC		
Tax Amount	A taxable amount transmitted to the non-taxing Party	RBC		
Tax Percent	Tax Percent	RBC		
Taxing Jurisdiction	Identifies the taxing jurisdiction	RBC		
Tax Inclusion Indicator	Include or exclude from total charges	RBC		

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Code Values Dictionary**

[??insert from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Charge/Allowance Credit/Debit Code	Allowance	Allowance	A
Charge/Allowance Line Credit/Debit Code	Charge	Charge	C
Charge/Allowance Line Credit/Debit Code	No	No Allowance or Charge	N
Charge/Allowance Line Unit of Measure Code	British Thermal Units	British Thermal Units	BTU?
Charge/Allowance Line Unit of Measure Code	Each	Each	EA
Charge/Allowance Line Unit of Measure Code	Hundred Cubic Feet	Hundred Cubic Feet	CCF?
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes	Kilovolt Amperes	K4
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes Reactive Hour	Kilovolt Amperes Reactive Hour	K3
Charge/Allowance Line Unit of Measure Code	kiloWatt demand	potential power load measured at predetermined intervals	K1
Charge/Allowance Line Unit of Measure Code	Kilowatt Hour	Kilowatt Hour	KH
Charge/Allowance Line Unit of Measure Code	KVAR Kilovolt Amperes Reactive Demand	KVAR Kilovolt Amperes Reactive Demand	K2
Charge/Allowance Line Unit of Measure Code	Months	Months	MO
Charge/Allowance Line Unit of Measure Code	Therms	Therms	??
Charge/Allowance Line Unit of Measure Code	Thousand Cubic Feet	Thousand Cubic Feet	MCF??
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/Allowance Line Credit/Debit Code	Allowance	Allowance	A
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Final Indicator	No	Not the final bill	[blank]
Final Indicator	Yes	Identifies this bill as the final bill	F
Party Calculating Bill	Distribution Company	Distribution Co calculates charges	LDC
Party Calculating Bill	Dual	Each party calculates own charges	DUAL
Party Calculating Bill	Retail Supplier	Supplier calculates charges	ESP
Party Sending Bill	Distribution Company	Distribution Company sends bill to Customer	LDC
Party Sending Bill	Dual	Both parties send bill to customer	DUAL
Party Sending Bill	Retail Supplier	Supplier sends bill to Customer	ESP
Transaction Purpose	Cancellation	Cancellation	01
Transaction Purpose	Original	Original	00

RXQ.3.6.2 Bill-Ready & SRBO Invoice

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??insert from rtf]

RXQ.3.6.2 Bill-Ready & SRBO Invoice

810 NAESB RXQ.3.6.2 Invoice: Bill Ready & Single Retailer Billing Option

Functional Group ID=**IN****Introduction:**

This NAESB guideline contains the format and establishes the data contents of the Bill Ready (BR) and Single Retailer Billing Option (SRBO) Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The Bill Ready and SRBO transaction set is used to communicate invoice details between Suppliers and Distribution Companies in a competitive retail marketplace where one party is acting as the 'Billing Party' and the second party is acting as the 'Non-Billing Party'. The BR/SRBO Invoice enables the Non-Billing Party to communicate charges and information that should be placed on the bill generated by the Billing Party.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	030	NTE	Non-Billing Party Required Messages (NTE~ADD)	O	100		
	030	NTE	Non-Billing Party Regulatory Messages (NTE~OTH)	O	100		
	050	REF	Non-Billing Party Account ID (REF~11)	C	12		
	050	REF	Original Invoice ID (REF~OI)	C	12		
M	050	REF	Customer ID (REF~12/Q5)	M	12		
	050	REF	Old Customer ID (REF~45)	C	1		
	050	REF	Party Sending Bill (REF~BLT)	O	12		
	050	REF	Party Calculating Non-Billing Party Charges (REF~PC)	O	12		
LOOP ID - N1						200	
M	070	N1	Name: Distribution Company (N1~8S)	M	1		
LOOP ID - N1						200	
M	070	N1	Name: Supplier (N1~SJ)	M	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - IT1						200000	
M	010	IT1	Baseline Item Data	M	1		
	120	REF	Distribution Company Rate Class (REF~NH)	C	>1		
	120	REF	Distribution Company Rate Subclass (REF~PR)	C	>1		
M	150	DTM	Service Period Start Date (DTM~150)	M	10		
M	150	DTM	Service Period End Date (DTM~151)	M	10		
LOOP ID - SLN						1000	
M	200	SLN	Subline Item Detail	M	1		
M	230	SAC	Invoice Charge or Allowance (SAC)	M	25		
	237	TXI	Tax Information	O	10		

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Summary:**

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	TDS	Total Monetary Value Summary	M	1		
M	070	CTT	Transaction Totals	M	1		n1
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **ST** Transaction Set Header

Position: 010

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of a transaction set and to assign a control number

Syntax Notes:

Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

Notes: REQUIRED

ST~810~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set 810 Invoice	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **BIG** Beginning Segment for Invoice**Position:** 020**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates**Syntax Notes:****Semantic Notes:**

- 1 BIG01 is the invoice issue date.
- 2 BIG03 is the date assigned by the purchaser to purchase order.
- 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments: 1 BIG07 is used only to further define the type of invoice when needed.**Notes:** REQUIRED

BIG~20010201~123567890120010201~~~2048392934504~~PR~00

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BIG01	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
			Date that the data was processed by the sender's application system.	
Must Use	BIG02	76	Invoice Number	M AN 1/22
			Identifying number assigned by issuer	
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. This number will be returned in the RMR02 of the 820 and/or the OTI03 of the 824.	
			Transaction reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	
Dep	BIG05	328	Release Number	O AN 1/30
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
			Monthly Invoice: The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05 of the 810 and in the RMR loop REF~6O of the 820.	
			For a cancelled invoice the cross-reference will be made to the original meter read BPT02, not the cancelled meter read BPT02 transaction.	
Must Use	BIG07	640	Transaction Type Code	O ID 2/2
			Code specifying the type of transaction	
			FB Final Bill	
			Final invoice sent for this Customer from the Non-Billing Party.	
			PR Product (or Service)	
			Monthly invoice	
Must Use	BIG08	353	Transaction Set Purpose Code	O ID 2/2
			Code identifying purpose of transaction set	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

00	Original
01	Cancellation
	Cancel the entire invoice/transaction cross-referenced in REF~OI

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **NTE** Non-Billing Party Required Messages (NTE~ADD)**Position:** 030**Loop:****Level:** Heading**Usage:** Optional**Max Use:** 100**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction**Syntax Notes:****Semantic Notes:****Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.**Notes:** Messages and notices from Non-Billing Party
OPTIONALNTE~ADD~NBP MESSAGES
NTE~ADD~LINE TWO OF MESSAGES**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NTE01	363	Note Reference Code	O ID 3/3
			Code identifying the functional area or purpose for which the note applies	
			ADD Additional Information	
Must Use	NTE02	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **NTE** Non-Billing Party Regulatory Messages (NTE~OTH)

Position: 030

Loop:

Level: Heading

Usage: Optional

Max Use: 100

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Syntax Notes:

Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Notes: Regulatory messages and notices from Non-Billing Party.
OPTIONAL

NTE~OTH~REGULATORY REQUIRED MESSAGES OR NOTICES
NTE~OTH~LINE TWO OF REGULATORY MESSAGES

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NTE01	363	Note Reference Code	O ID 3/3
			Code identifying the functional area or purpose for which the note applies	
			OTH Other Instructions	
Must Use	NTE02	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **REF** Non-Billing Party Account ID (REF~11)**Position:** 050**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1** At least one of REF02 or REF03 is required.
 - 2** If either C04003 or C04004 is present, then the other is required.
 - 3** If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1** REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party

OPTIONAL

REF~11~123456789019990102

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **REF** Original Invoice ID (REF~OI)**Position:** 050**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Cross-reference to Invoice ID from original invoice; used for cancel
REQUIRED on a cancel invoice transaction (BIG08=01)

REF~OI~123456789019990102

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification OI Original Invoice Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **REF** Customer ID (REF~12/Q5)**Position:** 050**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

ID that uniquely defines the Customer in marketplace. Governing document define whether REF~12 or REF~Q5 is required

- REF~12 uses REF02 for ID; usually LDC Account Number

- REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT)

REQUIRED

REF~12~1011111123456780

REF~Q5~~10111111234567890ABCDEFGHIJKL

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which billing is rendered	
			Account number ID; sent in REF02	
			Q5 Property Control Number	
			Service Delivery ID (e.g. ESIID); sent in REF03	
Used	REF02	127	Customer Account ID; use when REF01=12	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Used	REF03	352	Customer SD ID; use when REF01=Q5	X AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **REF** Old Customer ID (REF~45)**Position:** 050**Loop:****Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:** Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED when Customer ID has changed in last 45 days

REF~45~1011111123456780

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			Identifies accounts being changed	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **REF** Party Sending Bill (REF~BLT)**Position:** 050**Loop:****Level:** Heading**Usage:** Optional**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1** At least one of REF02 or REF03 is required.
 - 2** If either C04003 or C04004 is present, then the other is required.
 - 3** If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1** REF04 contains data relating to the value cited in REF02.

Comments:**Notes:** Identifies party sending the bill to the Customer

Valid REF~BLT values are:

-LDC: the Distribution Company sends the Bill to the Customer

-ESP: Supplier sends bill

-DUAL: each party sends a bill to the Customer

OPTIONAL

REF~BLT~LDC

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			BLT Billing Type	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **REF** Party Calculating Non-Billing Party Charges (REF~PC)

Position: 050

Loop:

Level: Heading

Usage: Optional

Max Use: 12

Purpose: To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

Identifies party calculating Non-Billing Party charges. Valid REF~PC values are:
 -LDC: Distribution Company calculates Non-Billing Party charges on the bill
 -ESP: the Supplier calculates the Non-Billing Party portion of the charges
 -DUAL: the Non-Billing Party calculates their own portion of the charges
 OPTIONAL

REF~PC~DUAL

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification PC Production Code	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **N1** **Name: Distribution Company (N1~8S)****Position:** 070**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Distribution Company Name and Entity ID
REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~~41

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8S Consumer Service Provider (CSP)	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Distribution Company Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Distribution Company Entity ID	
Must Use	N106	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **N1** **Name: Supplier (N1~SJ)****Position:** 070**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Supplier Name and Entity ID

REQUIRED

N1~SJ~SUPPLY-IT INC.~9~007909422CRN1~~40

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
			Supplier	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Supplier Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Supplier Entity ID	
Must Use	N106	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment:	ITD Terms of Sale/Deferred Terms of Sale
Position:	130
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify terms of sale
Syntax Notes:	<ol style="list-style-type: none"> 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required. 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required. 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.
Notes:	Date payment is due to the Non-Billing Party in a Single Retailer Billing Option marketplace (e.g. ERCOT) REQUIRED for Single Retail Billing Option ITD~~~~~20010215

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
ITD06	446	Terms Net Due Date	O DT 8/8
Must Use		Date when total invoice amount becomes due expressed in format CCYYMMDD	
		Payment due date	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **IT1** **Baseline Item Data**
Position: 010
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax Notes:

- 1 If any of IT102 IT103 or IT104 is present, then all are required.
- 2 If either IT106 or IT107 is present, then the other is required.
- 3 If either IT108 or IT109 is present, then the other is required.
- 4 If either IT110 or IT111 is present, then the other is required.
- 5 If either IT112 or IT113 is present, then the other is required.
- 6 If either IT114 or IT115 is present, then the other is required.
- 7 If either IT116 or IT117 is present, then the other is required.
- 8 If either IT118 or IT119 is present, then the other is required.
- 9 If either IT120 or IT121 is present, then the other is required.
- 10 If either IT122 or IT123 is present, then the other is required.
- 11 If either IT124 or IT125 is present, then the other is required.

Semantic Notes: 1 IT101 is the purchase order line item identification.

Comments:

- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Multiple IT1 Loops may be sent for each 810, and are differentiated by a combination of the IT109 element and the associated REF segments.

ACCOUNT: If the Non-Billing Party intends to display charges at an account level, one IT1 Loop is provided for the entire account: there may be *ONLY ONE* IT1 ACCOUNT loop per 810 transaction.
REQUIRED

IT1~1~~~~SV~ELECTRIC~C3~ACCOUNT
IT1~1~~~~SV~GAS~C3~ACCOUNT

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	IT101	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
Must Use	IT106	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			SV Service Rendered	
Must Use	IT107	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
			Only one commodity (Electric or Gas) for each 810 transaction	
			ELECTRIC	
			GAS	
Must Use	IT108	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Must Use	IT109	234	Product/Service ID (234)		M	AN 1/48
			C3	Classification		
			Product/Service ID			
			Identifying number for a product or service			
			ACCOUNT	Charges/Taxes at an Account level		
				Account equates to a Customer as defined by NAESB standards		
			RATE	Charges/Taxes at a Rate Level		

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **REF** Distribution Company Rate Class (REF~NH)**Position:** 120**Loop:** IT1 Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** >1**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:**

Distribution Company Rate Class

REQUIRED in Single Retail Bill Option

REF~NH~RS1

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification NH Rate Card Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **REF** Distribution Company Rate Subclass (REF~PR)

Position: 120

Loop: IT1 Mandatory

Level: Detail

Usage: Conditional

Max Use: >1

Purpose: To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

Distribution Company Rate Subclass
REQUIRED in Single Retail Bill Option

REF~PR~RSHT

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Distribution Company Rate Subclass	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **DTM** Service Period Start Date (DTM~150)**Position:** 150**Loop:** IT1 Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 10**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period Start Date. The full service period should match the applicable
PTD loops from the 867
REQUIRED

DTM~150~20010106

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **DTM** Service Period End Date (DTM~151)**Position:** 150**Loop:** IT1 Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 10**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

Service Period End Date. The full service period should match the applicable
PTD loops from the 867
REQUIRED

DTM~151~20010206

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **SLN** Subline Item Detail**Position:** 200**Loop:** SLN Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify product subline detail item data**Syntax Notes:** 1 If either SLN04 or SLN05 is present, then the other is required.

2 If SLN07 is present, then SLN06 is required.

3 If SLN08 is present, then SLN06 is required.

4 If either SLN09 or SLN10 is present, then the other is required.

5 If either SLN11 or SLN12 is present, then the other is required.

6 If either SLN13 or SLN14 is present, then the other is required.

7 If either SLN15 or SLN16 is present, then the other is required.

8 If either SLN17 or SLN18 is present, then the other is required.

9 If either SLN19 or SLN20 is present, then the other is required.

10 If either SLN21 or SLN22 is present, then the other is required.

11 If either SLN23 or SLN24 is present, then the other is required.

12 If either SLN25 or SLN26 is present, then the other is required.

13 If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes: 1 SLN01 is the identifying number for the subline item.

2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments: 1 See the Data Element Dictionary for a complete list of IDs.

2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: SLN is used to group charges together

REQUIRED

SLN~1~~A

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SLN01	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
			Used as a loop counter	
Must Use	SLN03	662	Relationship Code	M ID 1/1
			Code indicating the relationship between entities	
			A Add	

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **SAC** Invoice Charge or Allowance (SAC)**Position:** 230**Loop:** SLN Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 25**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Invoice line item charge or allowance.

REQUIRED

SAC~C~~EU~DIS001~2400~~~.016~KH~1500~~~~~DUOS

SAC~C~~EU~LPC001~500~~~100.00~EA~.05

SAC~C~~EU~INT001~500~~~100.00~EA~.05

SAC~C~~EU~INT003~500~~~100.00~EA~.05

SAC~C~~EU~MSC003~2500~~~1~EA~25.00~~~~~METER

SEAL

REPLACEMENT CHARGE

Data Element Summary

Ref.	Data		Attributes
Des.	Element	Name	
Must Use	SAC01 248	Allowance or Charge Indicator	M ID 1/1

Code which indicates an allowance or charge for the service specified

A Allowance

C Charge

N No Allowance or Charge

Ignore the amount in the SAC05 when summing the invoice total

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Must Use	SAC03	559	Agency Qualifier Code	X	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			GU Natural Gas Utilities		
Must Use	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge		
			Refer to governing documents of marketplace for a complete list of valid codes		
Must Use	SAC05	610	Amount	O	N2 1/15
			Monetary amount		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05		
Must Use	SAC08	118	Rate	O	R 1/9
			Rate expressed in the standard monetary denomination for the currency specified		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.		
Must Use	SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to governing documents of marketplace		
		4A	Bobbin		
			A cylinder or spindle on which yarn or thread is wound		
			ERCOT 4CP Kilowatt Demand		
		4B	Cap		
			Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance		
			ERCOT 4CP KVA Demand		
		4C	Centistokes		
			1 * 10/-6 square meters/second		
			ERCOT 4CP Power Factor Adjusted		
		4D	Curie		
			A unit of radioactivity equal to 3.7 * 10/10 disintegrations per second		
			ERCOT 4CP KVAR Demand		
		99	Watt		
		AF	Centigram		
			A unit of metric weight equal to 0.01 gram or 0.000035 ounce		
		DA	Days		
		DO	Dollars, U.S.		
		EA	Each		
		HH	Hundred Cubic Feet		
			ccf		
		K1	Kilowatt Demand		
		K2	Kilovolt Amperes Reactive Demand		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

K3	Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes
K5	Kilovolt Amperes Reactive
K7	Kilowatt
KH	Kilowatt Hour
MO	Months
NA	Milligrams per Kilogram
	ERCOT NCP Kilowatt Demand
NB	Barge
	ERCOT NCP KVA Demand
NC	Car
	ERCOT NCP Power Factor Adjusted
ND	Net Barrels
	ERCOT NCP KVAR Demand
RA	Rack
	ERCOT Ratchet Kilowatt Demand
RB	Radian
	ERCOT Ratchet KVA Demand
RC	Rod (area) - 16.25 Square Yards
	ERCOT Ratchet Power Factor Adjusted
RD	Rod (length) - 5.5 Yards
	ERCOT Ratchet KVAR Demand
TD	Therms
TZ	Thousand Cubic Feet

Must Use **SAC10** **380** **Quantity** **X** **R 1/15**

Numeric value of quantity

Consumption or Quantity

This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.

Used **SAC11** **380** **Quantity** **O** **R 1/15**

Numeric value of quantity

Used **SAC13** **127** **Print Sequencing Number** **X** **AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Used to assign a print sequencing number to determine the order that the line item will appear on the bill.

Dep **SAC15** **352** **Description** **X** **AN 1/80**

A free-form description to clarify the related data elements and their content

RXQ.3.6.2 Bill-Ready & SRBO Invoice**Segment:** **TXI** Tax Information**Position:** 237**Loop:** SLN Mandatory**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify tax information**Syntax Notes:** 1 At least one of TXI02 TXI03 or TXI06 is required.

2 If either TXI04 or TXI05 is present, then the other is required.

3 If TXI08 is present, then TXI03 is required.

Semantic Notes: 1 TXI02 is the monetary amount of the tax.

2 TXI03 is the tax percent expressed as a decimal.

3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:**Notes:** REQUIRED if taxes are applicable to the preceding SAC charge.

TXI~FR~2.5~~~~~A

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TXI01	963	Tax Type Code	M ID 2/2
			Code specifying the type of tax	
			CA City Tax	
			Service Tax imposed by City	
			CT County Tax	
			FR Franchise Tax	
			GR Gross Receipts Tax	
			LO Local Tax (Not Sales Tax)	
			Service tax imposed on a local level	
			LS State and Local Sales Tax	
			ST State Sales Tax	
Must Use	TXI02	782	Monetary Amount	X R 1/18
			Monetary amount	
			Calculated Tax Amount. If negative, this amount must be preceded by a negative sign.	
Must Use	TXI07	662	Relationship Code	O ID 1/1
			Code indicating the relationship between entities	
			A Add	
			The amount in the TXI02 is included when summing the invoice total.	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment:	TDS	Total Monetary Value Summary
Position:	010	
Loop:		
Level:	Summary	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify the total invoice discounts and amounts	
Syntax Notes:		
Semantic Notes:	<ol style="list-style-type: none"> 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable). 2 TDS02 indicates the amount upon which the terms discount amount is calculated. 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount). 4 TDS04 indicates the total amount of terms discount. 	
Comments:	<ol style="list-style-type: none"> 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01. 	
Notes:	<p>Total amount due for this invoice, equals the algebraic sum of the amounts in the TXI02 and SAC05 segments with the exception of any charges that are designated to be ignored in the calculation in the TXI07 or SAC01.</p> <p>REQUIRED</p> <p>TDS~19875 (\$198.75 since the decimal is implied)</p>	

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	TDS01	610	Amount	M N2 1/15
			Monetary amount	
			If negative, this amount must be preceded by a negative sign. Note this is an implied decimal field: do not send the decimal point	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **CTT** Transaction Totals

Position: 070

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.

2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Notes: REQUIRED

CTT~1

Data Element Summary

Must Use	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
			The number of IT1 segments.	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Notes: REQUIRED

SE~35~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.3 Rate-Ready Invoice

RXQ.3.6.3: CONSOLIDATED RATE READY INVOICE

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.5.1 through 3.3.5.6

The Rate Ready Invoice transaction is used when billing data is transmitted from the Billing Party to the Non-Billing Party in the form of an invoice that contains individual Customer bill components and their corresponding amounts for both parties.

The Billing Party is responsible for calculating charges and issuing bills to the retail customer on behalf of the Non-Billing Party.

The Billing Party sends the Rate Ready invoice transaction to the Non-Billing Party as notification that a Customer bill has been calculated and rendered.

The **Sender** and **Receiver** of the Consolidated Billing Rate Ready transaction is either a distribution company (LDC) or a supplier / retailer.

The Rate Ready Invoice transaction includes the specific **Usage ID** originally transmitted with the usage information. The UUID links the usage, invoice and payment transactions together for tracking purposes.

The Rate Ready Invoice transaction also notifies the Non-Billing Party of data concerning the Customer accounts that it has recently billed on behalf of the Non-Billing Party. Accordingly, the exchange of billing data between the Billing Party and Non Billing Party under this scenario is to have the Billing Party send the Non-Billing Party "after-the-fact information" concerning the Customer accounts that it has recently billed on behalf of the Non-Billing Party.

Each original Consolidated Billing Rate Ready transaction header contains

- **Invoice Date**
- **Invoice Number**
- **Usage ID**
- **Invoice Purpose**
- **Billing Final Indicator**
- **Original Invoice Number**
- **Invoice Due Date**
- **Billing Party Name**
- **Billing Party ID**
- **Non-Billing Party Name**
- **Non-Billing Party ID**
- **Customer ID**
- **Billing Party Customer Name**
- **Billing Party Previous Account Number**
- **Customer Balance Total**
- **Service Type**
- **Service Period Start Date**
- **Service Period End Date**
- **and Payment Plan Indicator.**

Each original Consolidated Billing Rate Ready transaction detail contains one or more

RXQ.3.6.3 Rate-Ready Invoice

- **Line Item Charges and Allowances**
- **Service Type**
- **Summary Level**
- **Unit of Measure for Quantity**
- **Usage Category**
- **Usage Code**
- **and Rate Codes**

Each cancel Rate Ready invoice transaction must include an **Invoice Purpose Code = 'Cancel'**, the UUID from the original transaction, and the same data found in the original Rate Ready invoice.

Rebilling of a cancelled Rate Ready invoice transaction is processed as an original Rate Ready invoice transaction.

Rate Ready – Cancel / Rebill due to usage

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF*OI
Utility sends Usage via 867	00	111				
Utility sends 810 invoice	00			301	111	
Utility cancels usage via 867	01	112	111			
Utility cancels original charge via 810	01			302	111	301
Utility sends restated charges via 867	00	113				
Utility sends restated charges via 810	00			303	113	

RXQ.3.6.3 Rate-Ready Invoice**Sample Paper Transaction**

Invoice Header	
Invoice Date:	20040413
Invoice Number:	04132004TR4877
Original Usage ID:	
Invoice Purpose:	Original
Billing Final Indicator:	No
Original Invoice Number:	X2004042312345
Invoice Due Date:	20040508
Billing Party (BP) Name:	Distribute-It Incorporated
Billing Party ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Incorporated
NBP ID:	546897321
BP Customer Name:	John Shoulders
BP Customer ID:	8473937UHFTR41304
Customer ID:	
Customer Balance Total:	\$100.00
Service Type:	Electric
Service Period Start Date:	20040313
Service Period End Date:	20040412

Line Item Charges and Allowances						
Indicator	Category	Unit	Qty	Rate	Amt	Description
Charge	GEN002	KWh	500	\$0.100	\$50.00	Current Basic Generation - Consumption
Charge	DMD009	KW	20	\$1.000	\$20.00	Current Basic Generation - Peak Demand
Total of NBP Line Item Current Charges:					\$79.25	

RXQ.3.6.3 Rate-Ready Invoice**Data Dictionary**

[??insert from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Invoice Date	Date this transaction was created by the sender's application system.	M		
Invoice ID	Unique number identifying this transaction, created by the originator of this transaction	M		
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	RBC		
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancellation]
Final Indicator	Indicates whether this is a final bill	M		[Yes, No]
Original Invoice ID	The unique number assigned to the original document, used only to cancel the original. When a transaction is cancelled, the Original Reference Number is used as a trace number.	C	Send when Purpose is 'Reversal' or 'Cancellation'	
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Non-Billing Party Balance, Prior to Current Charges	Also known as Non-Billing Party Arrears	M		
Non-Billing Party Balance, After Current Charges	Amount due on the previous bill	M		
Non-Billing Party Balance, Previous	Total Non-Billing Party Account Balance	RBC		
Billing Cycle	Cycle number (1-99) on which the bill will be rendered.	RBC		
Date Customer Bill Issued	Date the Customer bill was issued	M		
Date Customer Payment Due	Date payment is due from Customer	M		
Service Period Start Date	Previous Meter Reading Date	M		
Service Period End Date	Current Meter Reading Date	M		
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Customer Name	Customer Name	M		
Customer Name	Customer Name	M		
Customer Name Overflow	Customer Name Overflow (e.g. store number)	BC		
Customer Name Overflow	Additional information used to further identify the Customer, as defined in Billing Party's systems.	SO		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Party Sending Bill	Identifies party sending the bill to the Customer	RBC		[Distribution Company, DUAL, Supplier]
Party Calculating Bill	Identifies party calculating the Non-Billing Party Charges	RBC		[Distribution Company, DUAL, Supplier]
Current Total Charges	Sum of all current charges	M		
Total Current Charge	Total NBP Current Charge	M		
Chg/Allow Summary Level	Code that defines if the data is summarized by Account, Rate, SDID, Un-metered, or Meter.	M		[Account, Rate, SDID, Un-metered, Metered]

Use Legend: **M** = Mandatory; **C** = Conditional; **SO**=Sender's Option; **BC**=Business Conditional; **RBC**=Retail Business Conditional

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RXQ.3.6.3 Rate-Ready Invoice

Data Elem. Name	Description	Use	Condition	Comments [Options]
Chg/Allow Credit/Debit Code	Identifies if Line Item is allowance/credit, charge/debit or no charge	M		Allowance, Charge, No Charge
Chg/Allow Category	Code for the class of charge	M		[Adjustment, Budget, Late Payment, Miscellaneous, Payment Plan Charge, etc.]
Chg/Allow Amount	Dollar amount for the credit/debit	M		
Chg/Allow Rate	Non-Billing Party Rate	M		
Chg/Allow Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Each, Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour, therms, ccf, mcf]
Chg/Allow Quantity	Usage	M		
Chg/Allow Description	Line Item text that will print on the customer's bill	RBC		
Tax Type	Tax Type	RBC		
Tax Amount	Dollar amount for the tax	M		
Tax Percent	Tax Percent	RBC		
Taxing Jurisdiction	Identifies the taxing jurisdiction	RBC		
Tax Inclusion Indicator	Include or exclude from total charges	RBC		

RXQ.3.6.3 Rate-Ready Invoice**Code Values Dictionary**

[??insert from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Charge/Allowance Credit/Debit Code	Allowance	Allowance	A
Charge/Allowance Line Credit/Debit Code	Charge	Charge	C
Charge/Allowance Line Credit/Debit Code	No	No Allowance or Charge	N
Charge/Allowance Line Unit of Measure Code	British Thermal Units	British Thermal Units	BTU??
Charge/Allowance Line Unit of Measure Code	Hundred Cubic Feet	Hundred Cubic Feet	CCF??
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes	Kilovolt Amperes	K4
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes Reactive Hour	Kilovolt Amperes Reactive Hour	K3
Charge/Allowance Line Unit of Measure Code	Kilowatt Hour	Kilowatt Hour	KH
Charge/Allowance Line Unit of Measure Code	KVAR	KVAR Kilovolt Amperes Reactive Demand	K2
Charge/Allowance Line Unit of Measure Code	kW	kW - Represents potential power load measured at predetermined intervals	K1
Charge/Allowance Line Unit of Measure Code	Months	Months	MO
Charge/Allowance Line Unit of Measure Code	Therms	Therms	??
Charge/Allowance Line Unit of Measure Code	Thousand Cubic Feet	Thousand Cubic Feet	MCF??
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/Allowance Line Credit/Debit Code	Allowance	Allowance	A
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
FinalInd	No	Left blank??	[blank]
FinalInd	Yes	Identifies last bill to be sent	F
Party Calculating Bill	Distribution Company	Distribution Co calculates charges	LDC
Party Calculating Bill	Retail Supplier	Supplier calculates charges	ESP
Party Sending Bill	Distribution Company	Distribution Company sends bill to Customer	LDC
Party Sending Bill	Retail Supplier	Supplier sends bill to Customer	ESP
Purpose	Cancellation	Cancellation	1
Purpose	Duplicate	Duplicate	7
Purpose	Original	Original	0

RXQ.3.6.3 Rate-Ready Invoice

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??insert from rtf]

RXQ.3.6.3 Rate-Ready Invoice

810 NAESB RXQ.3.6.3 Invoice: Rate Ready

Functional Group ID=IN

Introduction:

This NAESB guideline contains the format and establishes the data contents of the Rate Ready (RR) Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The Rate Ready transaction set is used to communicate invoice details between Suppliers and Distribution Companies in a competitive retail marketplace where one party is acting as the 'Billing Party' and the second party is acting as the 'Non-Billing Party'. The RR Invoice enables the Billing Party to communicate charges and information that it has calculated and placed on the bill on behalf of the Non-Billing Party

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	050	REF	Non-Billing Party Account ID (REF~11)	O	12		
	050	REF	Original Invoice ID (REF~OI)	O	12		
M/U	050	REF	Customer ID (REF~12/Q5)	O	12		
M/U	050	REF	Old Customer ID (REF~45)	C	1		
M/U	050	REF	Party Sending Bill (REF~BLT)	O	12		
M/U	050	REF	Party Calculating Non-Billing Party Charges (REF~PC)	O	12		
			LOOP ID - N1			200	
	070	N1	Name: Distribution Company (N1~8S)	O	1		
			LOOP ID - N1			200	
	070	N1	Name: Supplier (N1~SJ)	O	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - IT1			200000	
	010	IT1	Account Level Charges (IT109=ACCOUNT)	O	1		
	150	DTM	Service Period Start Date (DTM~150)	O	10		
	150	DTM	Service Period End Date (DTM~151)	O	10		
			LOOP ID - SLN			1000	
	200	SLN	Subline Item Detail	O	1		
	230	SAC	Invoice Charge or Allowance (SAC)	O	25		
	237	TXI	Tax Information	O	10		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	TDS	Total Monetary Value Summary	M	1		
M/U	070	CTT	Transaction Totals	O	1		n1
M	080	SE	Transaction Set Trailer	M	1		

RXQ.3.6.3 Rate-Ready Invoice

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

RXQ.3.6.3 Rate-Ready Invoice

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

Notes:

REQUIRED

ST~810~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set 810 Invoice	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Syntax Notes:**Semantic Notes:**

- 1 BIG01 is the invoice issue date.
- 2 BIG03 is the date assigned by the purchaser to purchase order.
- 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments: 1 BIG07 is used only to further define the type of invoice when needed.

Notes: REQUIRED

BIG~20010201~123567890120010201~~~2048392934504~~PR~00

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BIG01	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
			Date that the data was processed by the sender's application system	
Must Use	BIG02	76	Invoice Number	M AN 1/22
			Identifying number assigned by issuer	
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. This number will be returned in the RMR02 of the 820 and/or the OTI03 of the 824.	
			Transaction Reference Number only contains uppercase letters (A to Z) and digits (0 to 9). Punctuation (spaces, dashes, etc.) must be excluded.	
Dep	BIG05	328	Release Number	O AN 1/30
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
			Monthly Invoice: The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05 of the 810 and in the RMR loop REF~6O of the 820.	
			For a cancelled invoice the cross-reference will be made to the original meter read BPT02, not the cancelled meter read BPT02 transaction.	
Must Use	BIG07	640	Transaction Type Code	O ID 2/2
			Code specifying the type of transaction	
			FB Final Bill	
			Final invoice sent for this Customer from the Non-Billing Party.	
			PR Product (or Service)	
			Monthly invoice	
Must Use	BIG08	353	Transaction Set Purpose Code	O ID 2/2
			Code identifying purpose of transaction set	

RXQ.3.6.3 Rate-Ready Invoice

00	Original
01	Cancellation
	Cancel the entire invoice/transaction cross-referenced in REF~OI
07	Duplicate

RXQ.3.6.3 Rate-Ready Invoice

Segment:	REF	Non-Billing Party Account ID (REF~11)
Position:	050	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	12	
Purpose:	To specify identifying information	
Syntax Notes:	1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.	
Comments:		
Notes:	ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party REQUIRED when previously provided by Non-Billing Party REF~11~123456789019990102	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **REF** Original Invoice ID (REF~OI)**Position:** 050**Loop:****Level:** Heading**Usage:** Optional**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Cross-reference to Invoice ID from original invoice; used for cancel
REQUIRED on a cancel invoice transaction (BIG08=01)

REF~OI~123456789019990102

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification OI Original Invoice Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **REF** Customer ID (REF~12/Q5)**Position:** 050**Loop:****Level:** Heading**Usage:** Optional (Must Use)**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

ID that uniquely defines the Customer in marketplace. Governing document define whether REF~12 or REF~Q5 is required

- REF~12 uses REF02 for ID; usually LDC Account Number

- REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT)

REQUIRED

REF~12~1011111123456780

REF~Q5~~10111111234567890ABCDEFGHIJKL

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which billing is rendered	
			Account number ID; sent in REF02	
			Q5 Property Control Number	
			Service Delivery ID (e.g. ESIID); sent in REF03	
Used	REF02	127	Customer Account ID; use when REF01=12	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Used	REF03	352	Customer SD ID; use when REF01=Q5	X AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **REF** Old Customer ID (REF~45)**Position:** 050**Loop:****Level:** Heading**Usage:** Conditional (Must Use)**Max Use:** 1**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:**

Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days

REQUIRED when Customer ID has changed in last 45 days

REF~45~1011111123456780

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which billing is rendered	
			Q5 Property Control Number	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **REF** Party Sending Bill (REF~BLT)**Position:** 050**Loop:****Level:** Heading**Usage:** Optional (Must Use)**Max Use:** 12**Purpose:** To specify identifying information

Syntax Notes:

- 1** At least one of REF02 or REF03 is required.
- 2** If either C04003 or C04004 is present, then the other is required.
- 3** If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1** REF04 contains data relating to the value cited in REF02.

Comments:**Notes:** Identifies party sending the bill to the Customer

Valid REF~BLT values are:

-LDC: the Distribution Company sends the Bill to the Customer

-ESP: Supplier sends bill

-DUAL: each party sends a bill to the Customer

OPTIONAL

REF~BLT~LDC

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification BLT Billing Type	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **REF** Party Calculating Non-Billing Party Charges (REF~PC)**Position:** 050**Loop:****Level:** Heading**Usage:** Optional (Must Use)**Max Use:** 12**Purpose:** To specify identifying information

Syntax Notes:

- 1** At least one of REF02 or REF03 is required.
- 2** If either C04003 or C04004 is present, then the other is required.
- 3** If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1** REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Identifies party calculating Non-Billing Party charges. Valid REF~PC values are:
 -LDC: Distribution Company calculates Non-Billing Party charges on the bill
 -ESP: the Supplier calculates the Non-Billing Party portion of the charges
 -DUAL: the Non-Billing Party calculates their own portion of the charges
 OPTIONAL

REF~PC~DUAL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification PC Production Code	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **N1** **Name: Distribution Company (N1~8S)****Position:** 070**Loop:** N1 Optional**Level:** Heading**Usage:** Optional**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~~41

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8S Consumer Service Provider (CSP)	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Distribution Company Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Distribution Company Entity ID	
Must Use	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **N1** **Name: Supplier (N1~SJ)****Position:** 070**Loop:** N1 Optional**Level:** Heading**Usage:** Optional**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Supplier Name and Entity ID

REQUIRED

N1~SJ~SUPPLY-IT INC.~9~007909422CRN1~~40

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Supplier Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Supplier Entity ID	
Must Use	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **ITD** **Terms of Sale/Deferred Terms of Sale****Position:** 130**Loop:****Level:** Heading**Usage:** Optional**Max Use:** >1**Purpose:** To specify terms of sale**Syntax Notes:** **1** If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.**2** If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.**3** If ITD09 is present, then at least one of ITD10 or ITD11 is required.**Semantic Notes:** **1** ITD15 is the percentage applied to a base amount used to determine a late payment charge.**Comments:** **1** If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.**Notes:** Date payment is due from Customer

REQUIRED

ITD~~~~~20010215

Data Element Summary

Must Use	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
	ITD06	446	Terms Net Due Date	O DT 8/8
			Date when total invoice amount becomes due expressed in format CCYYMMDD	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **IT1** Account Level Charges (IT109=ACCOUNT)
Position: 010
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax Notes:

- 1 If any of IT102 IT103 or IT104 is present, then all are required.
- 2 If either IT106 or IT107 is present, then the other is required.
- 3 If either IT108 or IT109 is present, then the other is required.
- 4 If either IT110 or IT111 is present, then the other is required.
- 5 If either IT112 or IT113 is present, then the other is required.
- 6 If either IT114 or IT115 is present, then the other is required.
- 7 If either IT116 or IT117 is present, then the other is required.
- 8 If either IT118 or IT119 is present, then the other is required.
- 9 If either IT120 or IT121 is present, then the other is required.
- 10 If either IT122 or IT123 is present, then the other is required.
- 11 If either IT124 or IT125 is present, then the other is required.

Semantic Notes: 1 IT101 is the purchase order line item identification.
Comments: 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Rate Ready only allows charges at a Customer level. Only one commodity is allowed per Invoice.

REQUIRED

IT1~1~~~~SV~ELECTRIC~C3~ACCOUNT

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	IT101	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
Must Use	IT106	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			SV Service Rendered	
Must Use	IT107	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			Only one commodity (electric or gas) for each 810 transaction.	
			ELECTRIC	
			GAS	
Must Use	IT108	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			C3 Classification	
Must Use	IT109	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	

RXQ.3.6.3 Rate-Ready Invoice

ACCOUNT Charges/Taxes at an Account level

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **DTM** Service Period Start Date (DTM~150)**Position:** 150**Loop:** IT1 Optional**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

The full service period should match the applicable PTD loops from the Usage 867.

REQUIRED

DTM~150~20010106

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **DTM** Service Period End Date (DTM~151)**Position:** 150**Loop:** IT1 Optional**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify pertinent dates and times**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

The full service period should match the applicable PTD loops from the Usage 867.

REQUIRED

DTM~151~20010204

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **SLN** Subline Item Detail**Position:** 200**Loop:** SLN Optional**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To specify product subline detail item data**Syntax Notes:** 1 If either SLN04 or SLN05 is present, then the other is required.

2 If SLN07 is present, then SLN06 is required.

3 If SLN08 is present, then SLN06 is required.

4 If either SLN09 or SLN10 is present, then the other is required.

5 If either SLN11 or SLN12 is present, then the other is required.

6 If either SLN13 or SLN14 is present, then the other is required.

7 If either SLN15 or SLN16 is present, then the other is required.

8 If either SLN17 or SLN18 is present, then the other is required.

9 If either SLN19 or SLN20 is present, then the other is required.

10 If either SLN21 or SLN22 is present, then the other is required.

11 If either SLN23 or SLN24 is present, then the other is required.

12 If either SLN25 or SLN26 is present, then the other is required.

13 If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes: 1 SLN01 is the identifying number for the subline item.

2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments: 1 See the Data Element Dictionary for a complete list of IDs.

2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: The SLN will be used to group charges together.

REQUIRED

SLN~1~~A

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SLN01	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
			Used as a loop counter	
Must Use	SLN03	662	Relationship Code	M ID 1/1
			Code indicating the relationship between entities	
			A Add	

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **SAC** Invoice Charge or Allowance (SAC)**Position:** 230**Loop:** SLN Optional**Level:** Detail**Usage:** Optional**Max Use:** 25**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Invoice line item charge or allowance.

REQUIRED

SAC~C~~EU~DIS001~2400~~~.016~KH~1500~~~~~DUOS

SAC~C~~EU~LPC001~500~~~100.00~EA~.05

SAC~C~~EU~INT001~500~~~100.00~EA~.05

SAC~C~~EU~INT003~500~~~100.00~EA~.05

SAC~C~~EU~MSC003~2500~~~1~EA~25.00~~~~~METER

SEAL

REPLACEMENT CHARGE

Data Element Summary

Ref.	Data		
Des.	Element	Name	Attributes
SAC01	248	Allowance or Charge Indicator	M ID 1/1

Must Use

Code which indicates an allowance or charge for the service specified

C Charge

N No Allowance or Charge

Ignore this SAC05 amount when summing the invoice total

RXQ.3.6.3 Rate-Ready Invoice

Must Use	SAC03	559	Agency Qualifier Code	X	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			Use regardless of Electric or Gas charges since SAC04 values are from governing documents		
			GU Natural Gas Utilities		
Must Use	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge		
			Refer to governing documents for marketplace for list of valid codes		
Must Use	SAC05	610	Amount	O	N2 1/15
			Monetary amount		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05		
Must Use	SAC08	118	Rate	O	R 1/9
			Rate expressed in the standard monetary denomination for the currency specified		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.		
Must Use	SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to governing documents for marketplace for list of valid codes		
		4A	Bobbin		
			A cylinder or spindle on which yarn or thread is wound		
			ERCOT 4CP Kilowatt Demand		
		4B	Cap		
			Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance		
			ERCOT 4CP KVA Demand		
		4C	Centistokes		
			1 * 10 ⁻⁶ square meters/second		
			ERCOT 4CP Power Factor Adjusted		
		4D	Curie		
			A unit of radioactivity equal to 3.7 * 10 ¹⁰ disintegrations per second		
			ERCOT 4CP KVAR Demand		
		99	Watt		
		AF	Centigram		
			A unit of metric weight equal to 0.01 gram or 0.000035 ounce		
		DA	Days		
		DO	Dollars, U.S.		
		EA	Each		
		HH	Hundred Cubic Feet		
			ccf		
		K1	Kilowatt Demand		

RXQ.3.6.3 Rate-Ready Invoice

K2	Kilovolt Amperes Reactive Demand
K3	Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes
K5	Kilovolt Amperes Reactive
K7	Kilowatt
KH	Kilowatt Hour
MO	Months
NA	Milligrams per Kilogram
	ERCOT NCP Kilowatt Demand
NB	Barge
	ERCOT NCP KVA Demand
NC	Car
	ERCOT NCP Power Factor Adjusted
ND	Net Barrels
	ERCOT NCP KVAR Demand
RA	Rack
	ERCOT Ratchet Kilowatt Demand
RB	Radian
	ERCOT Ratchet KVA Demand
RC	Rod (area) - 16.25 Square Yards
	ERCOT Ratchet Power Factor Adjusted
RD	Rod (length) - 5.5 Yards
	ERCOT Ratchet KVAR Demand
TD	Therms
TZ	Thousand Cubic Feet

Must Use **SAC10** **380** **Quantity** **X** **R 1/15**

Numeric value of quantity

Consumption or Quantity. This field must be signed if it is negative.
SAC08 x SAC10 always equals SAC05.

RXQ.3.6.3 Rate-Ready Invoice**Segment:** **TXI** Tax Information**Position:** 237**Loop:** SLN Optional**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify tax information**Syntax Notes:** 1 At least one of TXI02 TXI03 or TXI06 is required.

2 If either TXI04 or TXI05 is present, then the other is required.

3 If TXI08 is present, then TXI03 is required.

Semantic Notes: 1 TXI02 is the monetary amount of the tax.

2 TXI03 is the tax percent expressed as a decimal.

3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TXI01	963	Tax Type Code	M ID 2/2
			Code specifying the type of tax	
			CA City Tax	
			Service Tax imposed by City	
			CT County Tax	
			FR Franchise Tax	
			GR Gross Receipts Tax	
			LO Local Tax (Not Sales Tax)	
			Service tax imposed on a local level	
			LS State and Local Sales Tax	
			ST State Sales Tax	
Must Use	TXI02	782	Monetary Amount	X R 1/18
			Monetary amount	
Must Use	TXI07	662	Relationship Code	O ID 1/1
			Code indicating the relationship between entities	
			A Add	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **TDS** Total Monetary Value Summary

Position: 010

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

Purpose: To specify the total invoice discounts and amounts

Syntax Notes:

Semantic Notes:

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

Comments: 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Notes: TDS01 is the total amount due for this invoice and must equal the algebraic sum of the amounts in the TXI02 and SAC05 segments with the exception of any charges that are designated to be ignored in the calculation in the TXI07 or SAC01. If this amount is negative, send the minus sign.
REQUIRED

TDS~19875 (Represents \$198.75 since the decimal is implied)

Data Element Summary

Must Use	Ref.	Data	Name	Attributes
	Des.	Element		
	TDS01	610	Amount	M N2 1/15
			Monetary amount	
			If negative, this amount must be preceded by a negative sign. Implied decimal field: DO NOT send the decimal point	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **CTT** Transaction Totals

Position: 070

Loop:

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.

2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Notes: REQUIRED

CTT~1

Data Element Summary

Must Use	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
			The number of IT1 segments.	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Notes: REQUIRED

SE~35~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.4 Payments

RXQ.3.6.4: PAYMENT REMITTANCE

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.3.7

The Payment Remittance transaction is the communication between companies that itemizes payments made from the Billing Party to the Non-Billing Party.

The Payment Remittance transaction is designed to be sent directly from the Billing Party to the Non-Billing Party. By mutual agreement Payment Remittance and actual Payments may be combined under a single transaction (e.g. CTX payments). These standards do not address this scenario. Different banks have different requirements that must be addressed.

The payment is identified by the **Reference Number ID**.

The payment header includes:

- Billing Party ID
- Billing Party Name
- Funds Transfer Date
- Monetary Amount
- Non-Billing Party ID
- Non-Billing Party Name
- Payment Format Code
- Payment Method Code
- Purpose
- Payment Reference ID
- Transaction Date
- Transaction Handling Code

The remittance detail includes:

- Adjustment Reason Code
- Credit/Debit Indicator
- Customer Account ID
- Customer Payment Posting Date
- Discount Amount
- Money Collected
- Non-Billing Party Account ID
- Payment/Adjustment Type

RXQ.3.6.4 Payments**Sample Paper Transaction**

Remittance Header	
Remittance Date:	20040413
Number:	04132004TR4877
Remittance / Payment Cross-Reference Number:	04132004MR8392
Trace Type:	Remittance Only
Payment Method Type	ACH
Settlement Date:	20040413
Billing Party (BP) Name:	Distribute-It Incorporated
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Incorporated
NBP Entity ID:	546897321
Total Monetary Amount Transferred	\$100.00

Payment Action Code	BP Customer ID	Date Posted	Usage Reference Number	Orig Invoice Amount	Disc Amt	Payment Amt	Cred/Debit Code	Adj Amt	Adj Reason
Payment	123456789012	20040410	200403251234	\$100.00	\$5.00	\$95.00	C		
Payment	12345678123	20040411	200403255678	\$100.00			C		
Adjustment			200403265678				D		

RXQ.3.6.4 Payments**Data Dictionary**

[??insert from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Payment Reference ID	Unique number identifying this transaction and created by the originator of this transaction	M		
Transaction Handling Code	A code to identify which type of transaction is being used	M		[Remittance only, Remittance and payment together]
Monetary Amount	The positive dollar amount being sent to the Non-Billing Party. This amount should sum to the individual amounts in detail.	M		
Payment Method Code	Defines the method for transmitting payment	M		[Automated Clearing House, Check]
Payment Format Code	Defines the payment format to be used	M		[Corp Trade Exchange, Cash Concentration Disbursement, Check]
Date Funds Transferred	Date the Billing Party intends for the transaction to be settled	M		
Bank Trace ID	Links remittance transaction to the bank payment transaction	M		
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Customer Payment Posting Date	Date the Customer's payment was posted	M		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		
Non-Billing Party Customer Account ID	Non-Billing Party Customer Account ID	M		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Old Customer Account ID	M		
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	M		
Payment/Adjustment Type	A code to indicate the type of payment or adjustment	M		[Adjustment, Payment on Account]
Money Collected	Payments / Credits applied (+/-)	M		
Adjustment Reason Code	Code that specifies the reason for the accounting adjustment	C	Send when Payment/Adjustment Type is "Adjustment"	[Adjustment, Invoice Cancelled, Insufficient Funds, Authorized Return]
Discount Amount	The amount of discount the Billing Party is entitled to when assuming receivables	M		

RXQ.3.6.4 Payments**Code Values Dictionary**

[??insert from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Adjustment Reason Code	Adjustment	Adjustment	CS
Adjustment Reason Code	Authorized Return	Authorized Return	72
Adjustment Reason Code	Insufficient Funds	Insufficient Funds	IF
Adjustment Reason Code	Invoice Cancelled	Invoice Cancelled	26
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Payment Format	CCD+	Cash Concentration/Disbursement plus Addenda	CCP
Payment Format	CTX	Corporate Trade Exchange	CTX
Payment Method	ACH	Automated Clearing House	ACH
Payment Method	Check	Check	CHK
Payment/Adjustment Code	Adjustment	Adjustment	AJ
Payment/Adjustment Code	Payment on Account	Payment on Account	PO
Transaction Handling Code	Handling Party Option	Handling parties option to split payment and remittance	X
Transaction Handling Code	Payment Only	Make Payment Only	D
Transaction Handling Code	Prenotification	Prenotification of future transfers	P
Transaction Handling Code	Remittance and Payment	Remittance and Payment	C
Transaction Handling Code	Remittance Only	Remittance Only	I
Transaction Handling Code	Split Payment and Remittance	Split payment and Remittance	U

RXQ.3.6.4 Payments

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??insert from rtf]

RXQ.3.6.4 Payments

820 NAESB RXQ.3.6.4 Payment Order/Remittance Advice

Functional Group ID=**RA**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
	035	TRN	Trace	C	1		c1
LOOP ID - N1						>1	
M	070	N1	Name: Payee	M	1		c2
LOOP ID - N1						>1	
M	070	N1	Name: Payer	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - ENT						>1	
M	010	ENT	Entity	M	1		n1, c3
LOOP ID - RMR						>1	
M	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	M	1		c4
M	170	REF	Usage ID (REF~60)	M	>1		
M	170	REF	Customer ID (REF~12/Q5)	M	>1		
	170	REF	Non-Billing Party Account ID (REF~11)	C	>1		
	170	REF	Old Customer ID (REF~45)	C	>1		
M	170	REF	Commodity Service Type (REF~QY)	M	>1		
M	180	DTM	Date Posted (DTM~809)	M	>1		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

RXQ.3.6.4 Payments

1. The ENT loop is for vendor or consumer third party consolidated payments.

Transaction Set Comments

1. The TRN segment is used to uniquely identify a payment order/remittance advice.
2. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
3. ENT09 may contain the payee's accounts receivable customer number.
4. Loop RMR is for open items being referenced or for payment on account.

RXQ.3.6.4 Payments

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:**Notes:**

REQUIRED

ST~820~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set 820 Payment Order/Remittance Advice	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.4 Payments**Segment:** **BPR** Beginning Segment for Payment Order/Remittance Advice**Position:** 020**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur**Syntax Notes:** 1 If either BPR06 or BPR07 is present, then the other is required.

2 If BPR08 is present, then BPR09 is required.

3 If either BPR12 or BPR13 is present, then the other is required.

4 If BPR14 is present, then BPR15 is required.

5 If either BPR18 or BPR19 is present, then the other is required.

6 If BPR20 is present, then BPR21 is required.

Semantic Notes: 1 BPR02 specifies the payment amount.

2 When using this transaction set to initiate a payment, all or some of BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used.

BPR06 and BPR07 relate to the originating depository financial institution (ODFI).

3 BPR08 is a code identifying the type of bank account or other financial asset.

4 BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.

5 BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).

6 BPR14 is a code identifying the type of bank account or other financial asset.

7 BPR15 is the account number of the receiving company to be debited or credited with the payment order.

8 BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).

9 BPR17 is a code identifying the business reason for this payment.

10 BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification number and account to be used for return items only.

11 BPR20 is a code identifying the type of bank account or other financial asset.

Comments:**Notes:**

820 remittance advice is sent daily and includes all applicable adjustments as long as adjustments are not larger than payments.

If adjustments are larger (creating a negative remittance advice), the sender will hold the remittance advice for one business day.

If negative remittance cannot be offset in one business day, the payer contacts the payee to determine the best remedy.

REQUIRED

BPR~I~1000.00~C~FWT~~~~~20010731

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	BPR01	305 Transaction Handling Code	M ID 1/2
		Code designating the action to be taken by all parties	
		I Remittance Information Only	
Must	BPR02	782 Monetary Amount	M R 1/18

RXQ.3.6.4 Payments**Use**

Monetary amount

The total positive amount (including zero) being sent to Payee. Monetary Amount must equal the sum of all Detail Position 150 RMR04 elements.

Must Use **BPR03** **478** **Credit/Debit Flag Code** **M** **ID 1/1**

Code indicating whether amount is positive or negative

C Credit

Must Use **BPR04** **591** **Payment Method Code** **M** **ID 3/3**

Code identifying the method for transmitting the payment

ACH Automated Clearing House (ACH)

CHK Check

Must Use **BPR05** **812** **Payment Format Code** **M** **ID 1/10**

Code identifying the payment format to be used

CCP Cash Concentration/Disbursement plus Addenda (CCD+) (ACH)

CTX Corporate Trade Exchange (CTX) (ACH)

Must Use **BPR16** **373** **Funds Transfer Date** **O** **DT 8/8**

Date [CCYYMMDD] when Payee intends for the transaction to be settled

The date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).

RXQ.3.6.4 Payments

Segment:	TRN Trace
Position:	035
Loop:	
Level:	Heading
Usage:	Conditional
Max Use:	1
Purpose:	To uniquely identify a transaction to an application
Syntax Notes:	
Semantic Notes:	<ol style="list-style-type: none"> 1 TRN02 provides unique identification for the transaction. 2 TRN03 identifies an organization. 3 TRN04 identifies a further subdivision within the organization.
Comments:	
Notes:	<p>Unique ID identifying this transaction, created by the originator, enabling cross-reference to ACH or wire payments.</p> <p>REQUIRED when this 820 is for remittance information only</p> <p>TRN~3~UCP103941</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TRN01	481	Trace Type Code	M ID 1/2
			Code identifying which transaction is being referenced	
			3 Financial Reassociation Trace Number	
Must Use	TRN02	127	Payment Reference ID	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Transaction Reference numbers contain only uppercase letters (A to Z) and digits (0 to 9); punctuation (spaces, dashes, etc.) must be excluded	

RXQ.3.6.4 Payments

Segment:	N1	Name: Payee
Position:	070	
Loop:	N1	Mandatory
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.	
Semantic Notes:		
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.	
Notes:	Receiver of the payment/remittance advice REQUIRED N1~PE~PAYEE COMPANY~1~007191969	

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			PE Payee	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Payee Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Payee Entity ID	

RXQ.3.6.4 Payments

Segment:	N1	Name: Payer
Position:	070	
Loop:	N1	Mandatory
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.	
Semantic Notes:		
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.	
Notes:	Initiator of the payment/remittance advice REQUIRED N1~PR~PAYER CO~9~0079111957CRN1	

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			PR Payer	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Payer Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Payer D-U-N-S Number or D-U-N-S + 4 Number	

RXQ.3.6.4 Payments**Segment:** **ENT** Entity**Position:** 010**Loop:** ENT Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To designate the entities which are parties to a transaction and specify a reference meaningful to those entities**Syntax Notes:** 1 If any of ENT02 ENT03 or ENT04 is present, then all are required.

2 If any of ENT05 ENT06 or ENT07 is present, then all are required.

3 If either ENT08 or ENT09 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows:

(1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master).

(2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used.

(3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used.

(4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master.

This segment also allows for the transmission of a unique reference number that is meaningful between the entities.

Notes: Only one ENT loop per 820

REQUIRED

ENT~1

Data Element Summary

Must Use	Ref.	Data			Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
	ENT01	554	Assigned Number		O N0 1/6
			Number assigned for differentiation within a transaction set		

RXQ.3.6.4 Payments

Segment:	RMR	Remittance Advice Accounts Receivable Open Item Reference
Position:	150	
Loop:	RMR	Mandatory
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail	
Syntax Notes:	<ol style="list-style-type: none"> 1 If either RMR01 or RMR02 is present, then the other is required. 2 If either RMR07 or RMR08 is present, then the other is required. 	
Semantic Notes:	<ol style="list-style-type: none"> 1 If RMR03 is present, it specifies how the cash is to be applied. 2 RMR04 is the amount paid. 3 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items. 4 RMR06 is the amount of discount taken. 5 RMR08, if present, represents an interest penalty payment, amount late interest paid, or amount anticipation. 	
Comments:	<ol style="list-style-type: none"> 1 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication. 2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present. 3 RMR05 may be needed by some payees to distinguish between duplicate reference numbers. 	
Notes:	<p>A separate RMR loop & segment is required for each Customer ID payment remittance reported REQUIRED</p> <p>RMR~IK~123455~~1000.00 (using Invoice ID in RMR02) RMR~IK~6789012345~~~1000.00 (using Customer Account ID in RMR02)</p>	

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	RMR01	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			IK Invoice Number	
			Single Retailer Billing Option use only; invoice ID from the BIG02 of the 810 Invoice	
Must Use	RMR02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Single Retailer Billing Option use only; Invoice Number	
Used	RMR03	482	Payment Action Code	O ID 2/2
			Code specifying the accounts receivable open item(s), if any, to be included in the cash application.	
			AJ Adjustment	
			AJ limited to:	
			a) Payment was made to the wrong vendor;	
			b) Duplicate Payment; or	
			c) Cancel/rebill created a credit	
			PO Payment on Account	

RXQ.3.6.4 Payments

Must Use	RMR04	782	Net Amount Paid	O R 1/18
			Monetary amount	
			Payment or adjustment amount - the sum of all Detail Position 150 RMR04 elements must equal the amount in Header Position 020 BPR02. Please see the Notes section in the BPR Segment for instructions on how to handle a negative remittance.	
Used	RMR05	782	Discount Amount	O R 1/18
			Monetary amount	
Used	RMR06	782	Original Invoice Amount	O R 1/18
			Monetary amount	
Used	RMR07	426	Adjustment Reason Code	X ID 2/2
			Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment	
			26	Invoice Cancelled
			72	Authorized Return
			CS	Adjustment
			IF	Insufficient Funds
Used	RMR08	782	Adjustment Amount	X R 1/18
			Monetary amount	
			Signed if negative, amount in RMR04 will always be the same as the amount in RMR08. The adjustment amount is only populated if there is an adjustment to be made.	

RXQ.3.6.4 Payments

Segment:	REF Usage ID (REF~6O)
Position:	170
Loop:	RMR Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Usage ID establishes a cross-reference to Usage (867 BPT02)

REQUIRED

REF~6O~2348400586

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification 6O Cross Reference Number	
Must Use	REF02	127	Usage ID	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Usage ID only contains uppercase letters (A to Z) and digits (0 to 9). Punctuation (spaces, dashes, etc.) must be EXCLUDED.	

RXQ.3.6.4 Payments

Segment:	REF Customer ID (REF~12/Q5)
Position:	170
Loop:	RMR Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>ID that uniquely defines the Customer in marketplace. Governing document define whether REF~12 or REF~Q5 is required</p> <p>- REF~12 uses REF02 for ID; usually LDC Account Number - REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT) REQUIRED</p> <p>REF~12~1234567890 REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPS</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which billing is rendered	
			Account number ID; sent in REF02	
			Q5 Property Control Number	
			Service Delivery ID (e.g. ESIID); sent in REF03	
Used	REF02	127	Customer Account ID; use when REF01=12	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Must Use	REF03	352	Customer SDID; use when REF01=Q5	X AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.4 Payments

Segment:	REF	Non-Billing Party Account ID (REF~11)
Position:	170	
Loop:	RMR	Mandatory
Level:	Detail	
Usage:	Conditional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.	
Comments:		
Notes:	ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party REQUIRED when provided by the Non-Billing Party REF~11~3940193248	

Data Element Summary				
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.4 Payments

Segment:	REF Old Customer ID (REF~45)
Position:	170
Loop:	RMR Mandatory
Level:	Detail
Usage:	Conditional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p>Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days</p> <p>REQUIRED if the Customer ID has changed within the last 45 days</p> <p>REF~45~1105687500</p>

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			Identifies accounts being changed	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Customer ID only contains uppercase letters (A to Z) and digits (0 to 9). Punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the ID must be present.	

RXQ.3.6.4 Payments

Segment: **REF** **Commodity Service Type (REF~QY)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Identifies type of commodity service (electric or natural gas)

REQUIRED

REF~QY~73913859308

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			QY Service Performed Code	
			Number indicating the type of service performed to repair a product	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Identifies service type: 'ELECTRIC' or 'GAS' are only valid values.	
			ELECTRIC Electric Commodity Service	
			GAS Natural Gas Commodity Service	

RXQ.3.6.4 Payments

Segment: **DTM** Date Posted (DTM~809)
Position: 180
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:
Notes:

Date payment was posted to Billing Parties AR System
 REQUIRED

DTM~809~20051111

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time 809 Posted	
Used	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

RXQ.3.6.4 Payments

Segment: **SE** Transaction Set Trailer
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:****Comments:****Notes:**

1 SE is the last segment of each transaction set.

REQUIRED

SE~28~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M NO 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.5 Payment Notification

RXQ.3.6.5: PAYMENT NOTIFICATION (COLLECTIONS)

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.8.1 through 3.3.9.5, 3.3.7.1, 3.3.7.2, 3.3.8.3,

The Payment Notification/Collections transaction is used in the 'Assumption of Receivables' scenario to enable Non-Billing Parties to identify accounts that are delinquent. It is the communication of all payments and adjustments made to customer accounts by the Billing Party. A single Payment Notification transaction is sent each day.

The transaction is sent by the **Billing Party**. The transaction is received by the **Non-Billing Party**.

The transaction is identified by the **Collection Unique ID**.

Each original Payment Notice header contains

- **Transaction Purpose**
- **Collection Unique ID**
- **Transaction Date**
- **Total Monetary Amount**
- **Billing Party ID and name**
- **Non-Billing Party ID and name.**

The Payment Notice detail repeats for each payment being reported. Multiple payments for a single customer are allowed. Each original Payment Notice detail contains

- **Customer ID and Name**
- **Supplier ID**
- **Service Type**
- **Assigned line number**
- **Transaction reference number for the amount**
- **Payment/Adjustment Indicator.**

RXQ.3.6.5 Payment Notification**Sample Paper Transaction**

Payment Notification Header	
Transaction Date:	20040413
Collection Unique ID:	04132004TR4877
Trans Purpose:	Original
Billing Party (BP) Name:	Distribute-It Incorporated
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Incorporated
NBP Entity ID:	546897321
Total Monetary Amount	\$190.00
Detail	
Customer ID:	12345767890
NBP Customer ID:	12345656788
Customer Name	John Doe
Service Type:	Electric
Transaction Reference Number	Dkoejdhhk20040511
Payment / Adjustment Flag:	Payment
Payment Level Allocated Amount::	\$100.00
Customer Acct ID:	12345767890
NBP Customer Acct ID:	12345656788
Customer Name	John Doe
Service Type:	Electric
Transaction Reference Number	Dkoejdhhk20040514
Payment / Adjustment Flag:	Payment
Payment Level Allocated Amount::	\$90.00

Note: this example shows a notification for a single customer, so the Total Monetary Amount is \$190.00. In the event other customers are to be reported, the Total Monetary Amount would include those monies associated with the other customers.

RXQ.3.6.5 Payment Notification**Data Dictionary**

[??insert from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancel]
Payment Notification Unique ID	Unique number assigned by the originator of this transaction. This should be unique over time.	M		
Payment Notification Date	Date this transaction was created by the sender's application system.	M		
Total Monetary Amount Allocated	Total Monetary Amount allocated to the non-billing party; Sum of all detail amounts in this transaction.	M		
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Non-Billing Party Amount Allocated for Account	Total Monetary or Adjustment allocated for this Customer by the Billing Party on behalf of the Non-Billing Party	M		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC	Send if previously sent	
Old Customer ID	Previous Billing Party Customer Account Number	BC	Send if Customer ID changed in last 45 days	
Transaction Tracking ID	Transaction tracking number used to uniquely identify this allocation	M		
Customer Name	Customer Name	M		
Payment Level Allocated Amount	Individual allocated amount or amounts. If more than one Customer payment was posted to this Customer account, this will be repeated for each Customer payment.	M		
Transaction Detail ID	Unique Number identifying this Customer account record.	M		
Type of Adjustment	Adjustment reason code	C	Send when Payment/Adjustment code indicates Adjustment	[Adjustment, Insufficient Funds, Returned Items]
Posting Date	Date the payment or adjustment was posted in the billing party's system. Format: CCYYMMDD	M		
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]

RXQ.3.6.5 Payment Notification**Code Values Dictionary**

[??insert from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Payment/Adjustment Indicator	Adjustment	Adjustment	BM
Payment/Adjustment Indicator	Collected Amount	Collected Amount	KL
Purpose	Original	Original	00
Type of Adjustment	Adjustment	Adjustment	CS
Type of Adjustment	Insufficient Funds	Insufficient Funds	IF
Type of Adjustment	Returned Items	Returned Items	72

RXQ.3.6.5 Payment Notification

X12 EDI Subtab

Data Element Cross Reference to ASC X12

[??insert from spreadsheet]

ASC X12 Mapping Guidelines

[??insert from rtf]

RXQ.3.6.5 Payment Notification

568 NAESB RXQ.3.6.5 Payment Notification

Functional Group ID=**D5****Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Contract Payment Management Report Transaction Set (568) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to enable the transmission of a management report to provide the details of payments and collections made against funds obligated on contracts, orders, and other services.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BGN	Beginning Segment	M	1		n1
M	030	AMT	Monetary Amount: Total Received (AMT~AT)	M	2		n2
LOOP ID - N1							10
M	040	N1	Name: Distribution Company (N1~8S)	M	1		n3
LOOP ID - N1							10
M	040	N1	Name: Supplier (N1~SJ)	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - CS							>1
M	010	CS	Contract Summary	M	1		n4
	020	N9	Non-Billing Party Account ID (N9~11)	C	3		n5
	020	N9	Old Customer ID (N9~45)	C	3		
LOOP ID - REF							>1
M	060	REF	Commodity Service Type (REF~QY)	M	1		n6
LOOP ID - LX							>1
M	080	LX	Assigned Number	M	1		
M	090	N9	Transaction Tracking ID (N9~TN)	M	1		n7
M	100	AMT	Monetary Amount	M	>1		n8
LOOP ID - N1							1
M	140	N1	Name: Customer (N1~8R)	M	1		n9

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The BGN segment identifies the transaction set purpose code, a unique number used to identify this transmission, and the date and time of transaction set creation.
2. The AMT segment identifies the collected amount and the disbursed amount to the extent that either amount applies to the transaction set.

RXQ.3.6.5 Payment Notification

3. The N1 loop identifies the name and address information for the transmitting and receiving parties.
4. The CS segment identifies the contract, modification, call, and order number of the procurement instrument, and the voucher number of the payment being reported on in this contract payment management report.
5. The N9 segment identifies the number of the original voucher on which a payment was made if the voucher being reported on in this transmission is a change, correction, or adjustment to that previous voucher.
6. The REF segment identifies a reference number associated with the following appropriation data.
7. The N9 segment identifies a contract line item, exhibit line item, or subclassification of either against which specific data is being reported.
8. The AMT segment identifies the gross, net, deducted, or collected amounts and the net variance amount applicable to the line item being reported.
9. The N1 loop identifies address information for a quantity delivered in a specific shipment, to a specific ship-to address.

RXQ.3.6.5 Payment Notification**Segment:** **ST** Transaction Set Header**Position:** 010**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of a transaction set and to assign a control number**Syntax Notes:****Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).**Comments:****Notes:** REQUIRED

ST~568~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.5 Payment Notification

Segment: **BGN** Beginning Segment

Position: 020

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of a transaction set

Syntax Notes: 1 If BGN05 is present, then BGN04 is required.

Semantic Notes: 1 BGN02 is the transaction set reference number.

2 BGN03 is the transaction set date.

3 BGN04 is the transaction set time.

4 BGN05 is the transaction set time qualifier.

5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Comments:

Notes: REQUIRED

BGN~00~94852-34985-9~20051118

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BGN01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set 00 Original	
Must Use	BGN02	127	Payment Notification ID	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time.	
Must Use	BGN03	373	Payment Notification Date	M DT 8/8
			Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	

RXQ.3.6.5 Payment Notification

Segment: **AMT** Monetary Amount: Total Received (AMT~AT)

Position: 030

Loop:

Level: Heading

Usage: Mandatory

Max Use: 2

Purpose: To indicate the total monetary amount

Syntax Notes:

Semantic Notes:

Comments:

Notes:

REQUIRED

AMT~AT~1500.00

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code	M ID 1/3
			Code to qualify amount	
			AT	Total Received
			The AMT02 element is the sum of all CS11s in this transaction set.	
Must Use	AMT02	782	Monetary Amount	M R 1/18
			Monetary amount	

RXQ.3.6.5 Payment Notification**Segment:** **N1** **Name: Distribution Company (N1~8S)****Position:** 040**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Distribution Company Name and Entity ID
REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~41

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8S Consumer Service Provider (CSP)	
Used	N102	93	Name	X AN 1/60
			Free-form name	
			Distribution Company Name	
Used	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Used	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Distribution Company Entity ID	
Used	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			Entity to accept transmission	
			The receiver is the Non-Billing Party	
			41 Submitter	
			Entity transmitting transaction set	
			The sender is the Billing Party	

RXQ.3.6.5 Payment Notification**Segment:** **N1** **Name: Supplier (N1~SJ)****Position:** 040**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Supplier Name and Entity ID

REQUIRED

N1~SJ~SUPPLY-IT INC.~9~007909422CRN1~~40

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
			Identifies name and address information as pertaining to a service provider for which billing is being rendered	
Used	N102	93	Name	X AN 1/60
			Free-form name	
			Supplier Name	
Used	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
		1	D-U-N-S Number, Dun & Bradstreet	
		9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Used	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Supplier Entity ID	
Used	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
		40	Receiver	
			Entity to accept transmission	
			The receiver is the Non-Billing Party	
		41	Submitter	
			Entity transmitting transaction set	
			The sender is the Billing Party	

RXQ.3.6.5 Payment Notification

Segment:	CS Contract Summary
Position:	010
Loop:	CS Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To provide information about a contract
Syntax Notes:	1 If either CS04 or CS05 is present, then the other is required.
Semantic Notes:	1 CS09 is the permissible overage as a percentage of the total contract line item number (CLIN) quantity. 2 CS10 is the permissible shortage as a percentage of the total contract line item number (CLIN) quantity. 3 CS11 is the permissible overage dollar value specified by the contract above which discrepancy action is taken. 4 CS14 is the Unit of Measure stipulated in the contract. 5 CS15 is the contract line item number (CLIN) unit price specified in the contract. 6 CS17 conveys the Critical Application Indicator. A "Y" indicates that a Critical Application Indicator is specified in the contract; an "N" indicates that no Critical Application Indicator is specified in the contract. 7 CS18 conveys the Special Requirements Indicator. A "Y" indicates that a Special Requirements Indicator (requiring special testing and or evaluation) is specified in the contract; an "N" indicates that no Special Requirements Indicator is specified in the contract.
Comments:	1 CS04 may be used to identify the Contract Line Item Number (CLIN) or Extended (or Exhibit) Line Item Number (ELIN). 2 CS07 and CS13 can be used to indicate two different types of special services required.
Notes:	The CS segment defines the Customer ID and the total amount allocated/adjusted. Each CS loop will only contain one LX loop (payment detail). If there are multiple payments on a specific account, there will be multiple CS loops for that account. REQUIRED CS~~~~12~12345678988~~~~~50.00

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Used	CS04	128	Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered	X ID 2/3
Must Use	CS05	127	Customer ID Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ID that uniquely defines the Customer in the marketplace	M AN 1/30
Used	CS11	782	Monetary Amount Monetary amount Total monetary amount allocated for the Customer account by the Billing Party on behalf of the Non-Billing Party or adjustment amount allocated by the Billing Party on behalf of the Non-Billing Party. The CS11 will equal the sum of all AMT02 elements of this Customer ID	O R 1/18

RXQ.3.6.5 Payment Notification**Segment:** **N9 Non-Billing Party Account ID (N9~11)****Position:** 020**Loop:** CS Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 3**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier**Syntax Notes:** 1 At least one of N902 or N903 is required.

2 If N906 is present, then N905 is required.

3 If either C04003 or C04004 is present, then the other is required.

4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 N906 reflects the time zone which the time reflects.

2 N907 contains data relating to the value cited in N902.

Comments:**Notes:** ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED when previously provided by Non-Billing Party

N9~11~333444555666

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N901	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
Used	N902	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.5 Payment Notification**Segment:** **N9** Old Customer ID (N9~45)**Position:** 020**Loop:** CS Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 3**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED if Customer ID has changed in last 45 days

N9~45~212345438756

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N901	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			Identifies accounts being changed	
Used	N902	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.5 Payment Notification**Segment:** **REF** **Commodity Service Type (REF~QY)****Position:** 060**Loop:** REF Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:** Code that defines the commodity

REQUIRED

REF~QY~ELECTRIC

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			QY	
			Service Performed Code	
			Number indicating the type of service performed to	
			repair a product	
			Commodity Service Type	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as	
			specified by the Reference Identification Qualifier	
			ELECTRIC	Electric Service
			GAS	Natural Gas Service

RXQ.3.6.5 Payment Notification

Segment: **LX** Assigned Number
Position: 080
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To reference a line number in a transaction set

Syntax Notes:

Semantic Notes:

Comments:

Notes: Use multiple CS loops for multiple payments/adjustments on a Customer ID. The AMT02 element in this loop for the Customer ID should match the CS11 value.
 REQUIRED
 LX~1

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
Must Use LX01	554	Assigned Number	M N0 1/6
Number assigned for differentiation within a transaction set			

RXQ.3.6.5 Payment Notification**Segment:** **N9** Transaction Tracking ID (N9~TN)**Position:** 090**Loop:** LX Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: ID used to uniquely identify this collection/adjustment
REQUIRED

N9~TN~123223327~~19990225

N9~TN~123223532~CS~19990225 (Adjustment)

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N901	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification TN Transaction Reference Number	
Used	N902	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transaction Tracking Number	
Used	N903	369	Free-form Description	X AN 1/45
			Free-form descriptive text Adjustment Reason Code. Only used if AMT01 (within the LX) is equal to "BM"	
			72 Returned Items CS Adjustment IF Insufficient Funds	
Used	N904	373	Date	O DT 8/8
			Date expressed as CCYYMMDD Date the payment or adjustment was posted by the Billing Party	

RXQ.3.6.5 Payment Notification

Segment: **AMT** Monetary Amount
Position: 100
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To indicate the total monetary amount

Syntax Notes:**Semantic Notes:****Comments:****Notes:**

Collected or adjustment amount allocated to the Non-Billing Party for this Customer.

REQUIRED

AMT~KL~25.00

AMT~BM~-130.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	AMT01	522	Amount Qualifier Code	M ID 1/3

Code to qualify amount

BM

Adjustments

KL

Collected Amount

Must Use	AMT02	782	Monetary Amount	M R 1/18
---------------------	--------------	------------	------------------------	-----------------

Monetary amount

Leading negative sign must be sent if this is a negative number, e.g. in the case of a bounced check to indicate the original check amount is being reversed. If the amount is positive, no sign is sent.

The sum of all AMT02 elements under this Customer ID is provided in the CS11

RXQ.3.6.5 Payment Notification

Segment:	N1	Name: Customer (N1~8R)
Position:	140	
Loop:	N1	Mandatory
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.	
Semantic Notes:		
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.	
Notes:	Name of Customer REQUIRED N1~8R~JOHN ENERGY USER	

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8R Consumer Service Provider (CSP) Customer	
Must Use	N102	93	Name	M AN 1/60
			Free-form name	

RXQ.3.6.5 Payment Notification

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Notes: REQUIRED

SE~28~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.6 Application Advice**RXQ.3.6.6: APPLICATION ADVICE****Technical Implementation Of Business Process**

Related MBP's: See Table Below

The Application Advice transaction is the communication between companies that advises trading partners of success or failure in certain business processes. The use of the Application Advice UET enables trading partners to automate processes for common exceptions, and for common notifications. The following retail energy business processes use the Application Advice:

??

Application Advice Use	MBP References
Invalid Usage – This negative acknowledgement, sent by the party receiving usage, notifies the sender that usage was bad.	2.1.1.me1 ??(draft)
Invalid Invoice – This negative acknowledgement, sent by the party receiving an invoice, notifies the party that generated the invoice that it was bad.	2.4.1.3 2.4.1.6 2.5.1.me2 (draft) 2.6.1.me3 (draft)
Invoice Missed Bill Window – This negative acknowledgement, sent by the Billing Party, notifies the Non-Billing Party that the invoice was received after the bill window had expired.	2.4.1.7 (revised)

The UET consists of the following logical groups of data:

- Envelope
- Billing Party
- Non-Billing Party
- Customer
- Advice Details, including rejection information where applicable.

Envelope information contains the **App Advice Action**, the **App Advice Date**, and the **App Advice ID**.

Billing Party group contains **Billing Party ID**, **Billing Party Name**, **Billing Party Technical Contact**.

Customer group contains **Customer ID**, **Billing Party Old Account ID**, **Customer Name**, **Non-Billing Party Account ID**.

Non-Billing Party group contains **Non-Billing Party Account ID**, **Non-Billing Party Name**, **Non-Billing Party Technical Contact**.

Application Advice Detail group contains **Bill Due Date**, **Cross Reference ID**, **Date Bill Rendered**, **Outstanding Balance**, **Rejection Level**, **Rejection Reason**, **Rejection Text**.

RXQ.3.6.6 Application Advice**Sample Paper Transaction**

Application Advice Header	
Transaction Date:	20040413
App Advice ID:	04132004TR4877
Action Required:	Do Not Resend
Trans Purpose:	
Billing Party (BP) Name:	Distribute-It Incorporated
BP Entity ID:	123456789
BP Technical Contact:	John Distribute
BP Technical Contact Phone:	713.111.1111
Non-Billing Party (NBP) Name:	Sell-It Incorporated
NBP Entity ID:	546897321
Customer Name:	Joe Customer
Customer Acct ID:	12345767890
NBP Customer Acct ID:	12345656788
Service Type:	Electric
Rejection Level:	Entire Transaction Rejected
Transaction Set Rejected:	810
Rejection Code:	MBW
Rejection Description:	Missed Bill Window

RXQ.3.6.6 Application Advice**Data Dictionary**

[??insert from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
App Advice ID	A unique transaction ID assigned by the originator of this transaction. This number must be unique over time.	M		
App Advice Date	Date that the data was processed by the sender's application system.	M		
App Advice Action	Indicates whether the receiver of the AA is expected to resend the transaction or not.	M		[Resend, Do Not Resend, Accept]
Receiver Entity ID	Receiver's Entity Common Code ID (e.g. DUNS Number)	M		
Receiver Entity Name	Receiver's Name	M		
Sender Entity ID	Sender Entity Common Code ID (e.g. DUNS Number)	M		
Sender Name	Sender Name	M		
Receiver Technical Contact	Receiver Contact information (Telephone, Email, Fax) to resolve this particular issue.	RBC	[M] if BP sends transaction	
Sender Technical Contact	Sender Contact information (Telephone, Email, Fax) to resolve this particular issue	RBC	[M] if NBP sends transaction	
Sender Technical Contact Email	Sender Contact E-mail	RBC		
Sender Technical Contact Fax	Sender Contact Fax	RBC		
Sender Technical Contact Phone	Sender Contact Telephone	RBC		
Customer Name	Customer Name	M		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Previous Customer Account ID	RBC	Send if Customer ID changed in last 45 days	
Outstanding Balance	Total outstanding balance printed on bill for Non-Billing Party (for Acceptance of a BR Invoice)	RBC		
Date Bill Rendered	Date bill was rendered to the Customer (for Acceptance of a Bill Ready Invoice)	RBC		
Date Bill Due	Date Customer payment is due (for Acceptance of a BR Invoice)	RBC		
Rejection Reason	Code indicating rejection reason	C	[M] if RejLev indicates reject	
Rejection Level	Code indicating rejection level (e.g. entire, partial, accepted).	M		[Entire Transaction Rejected, Part of Transaction Rejected, Entire Transaction Accepted, Item is Rejected]
Transaction Set	Transaction Set that is being responded to	M		[Usage, Invoice, Payment]
Cross Reference ID	Cross reference ID that links transaction to original Invoice or Payment transaction	M		
Rejection Text	Text explaining rejection reason	C	[M] if RejLev indicates reject	

RXQ.3.6.6 Application Advice**Code Values Dictionary**

[??insert from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
App Advice Action	Accept	Accept	CF
App Advice Action	Do Not Resend	Do Not Resend	EV
App Advice Action	Resend	Resend	82
Rejection Level	Entire Transaction Accepted	Entire Transaction Accepted	TA
Rejection Level	Entire Transaction Rejected	Entire Transaction Rejected	TR
Rejection Level	Item is Rejected	Item is Rejected	IR
Rejection Level	Part of Transaction Rejected	Part of Transaction Rejected	TP
Transaction Set	Invoice	Invoice	810
Transaction Set	Payment	Payment	820
Transaction Set	Usage	Usage	867

RXQ.3.6.6 Billing Services Termination

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??insert from rtf]

RXQ.3.6.6 Billing Services Termination

824 NAESB RXQ.3.6.6 Application Advice

Functional Group ID=**AG****Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Application Advice Transaction Set (824) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgment sent in response to a purchase order).

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BGN	Beginning Segment	M	1		
LOOP ID - N1							>1
M	030	N1	Name: Distribution Company (N1~8S)	M	1		
	080	PER	Administrative Communications Contact	C	3		
LOOP ID - N1							>1
	030	N1	Name: Registration Agent (N1~AY)	C	1		
	080	PER	Administrative Communications Contact	C	3		
LOOP ID - N1							>1
M	030	N1	Name: Supplier (N1~SJ)	M	1		
	080	PER	Administrative Communications Contact	C	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - OTI							>1
M	010	OTI	Original Transaction Identification	M	1		n1
M	020	REF	Customer ID (REF~12/Q5)	M	12		n2
	020	REF	Old Customer ID (REF~45)	C	12		
	020	REF	Non-Billing Party Account ID (REF~11)	C	12		
	020	REF	Usage ID (REF~6O)	C	12		
LOOP ID - TED							>1
M	070	TED	Technical Error Description	M	1		
	080	NTE	Note/Special Instruction	C	100		
M	090	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The OTI loop is intended to provide a unique identification of the transaction set that is the subject of this application acknowledgment.
2. The REF segment allows for the provision of secondary reference identification or numbers required to uniquely identify the original transaction set. The primary reference identification or number should be provided in elements

Use Legend: M = Mandatory; C = Conditional; SO=Sender's Option; BC=Business Conditional; RBC=Retail Business Conditional

RXQ.3.6.6 Billing Services Termination

OTI02-03.

RXQ.3.6.6 Billing Services Termination**Segment:** **ST** Transaction Set Header**Position:** 010**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of a transaction set and to assign a control number**Syntax Notes:****Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).**Comments:****Notes:** REQUIRED

ST~824~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set 824 Application Advice	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.6 Billing Services Termination**Segment:** **BGN** Beginning Segment**Position:** 020**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the beginning of a transaction set**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.**Semantic Notes:** 1 BGN02 is the transaction set reference number.

2 BGN03 is the transaction set date.

3 BGN04 is the transaction set time.

4 BGN05 is the transaction set time qualifier.

5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Comments:**Notes:** REQUIRED

BGN~11~200107111230001~20010711~~~~82

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BGN01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set 11 Response	
Must Use	BGN02	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. Transaction Reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	
Must Use	BGN03	373	Date	M DT 8/8
			Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	
Must Use	BGN08	306	Action Code	M ID 1/2
			Code indicating type of action 82 Follow Up Indicates that the receiver of the transaction must correct and resend the transaction. EV Evaluate Indicates that the receiver of the transaction must evaluate the error, but the transaction should NOT be resent.	

RXQ.3.6.6 Billing Services Termination**Segment:** **N1** **Name: Distribution Company (N1~8S)****Position:** 030**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Distribution Company Name and Entity ID
REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909999~40

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8S Consumer Service Provider (CSP)	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Distribution Company Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Distribution Company Entity ID	
Dep	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	

RXQ.3.6.6 Billing Services Termination**Segment:** **PER** Administrative Communications Contact**Position:** 080**Loop:** N1 Mandatory**Level:** Heading**Usage:** Conditional**Max Use:** 3**Purpose:** To identify a person or office to whom administrative communications should be directed**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

OPTIONAL

PER~IC~CONTACT~TE~8005551212~EM~CONTACT@COMPANY.COM

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named IC Information Contact Distribution Company contact to resolve this particular issue	
Must Use	PER02	93	Name	O AN 1/60
			Free-form name	
Must Use	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number EM Electronic Mail TE Telephone	
Must Use	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
Dep	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number Condition: Required if providing a second contact number EM Electronic Mail TE Telephone	
Dep	PER06	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable Condition: Required if providing a second contact number	

RXQ.3.6.6 Billing Services Termination**Segment:** **N1** **Name: Registration Agent (N1~AY)****Position:** 030**Loop:** N1 Conditional**Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Registration Agent Name and Entity ID
REQUIRED when Registration Agent submits or receives transaction.

N1~AY~REGISTER-IT INC.~1~183529049~~40

N1~AY~REGISTER-IT INC.~1~183529049~~OA

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			AY Clearinghouse	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Registration Agent Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Registration Agent Entity ID	
Must Use	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	
			OA Electronic Return Originator	
			Required when the original 824 is being forwarded by the Registration Agent. The N106 code will be changed by Registration Agent only.	

RXQ.3.6.6 Billing Services Termination**Segment:** **PER Administrative Communications Contact****Position:** 080**Loop:** N1 Conditional**Level:** Heading**Usage:** Conditional**Max Use:** 3**Purpose:** To identify a person or office to whom administrative communications should be directed**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:**Comments:****Notes:**

REQUIRED when Registration Agent initiates the 824

PER~IC~CONTACT~TE~8005551212~EM~contact@register-it.com

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			IC Information Contact	
			Registration Agent contact to resolve this particular issue	
Must Use	PER02	93	Name	O AN 1/60
			Free-form name	
Must Use	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			EM Electronic Mail	
			TE Telephone	
Must Use	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
Dep	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			Condition: Required if providing a second contact number	
			EM Electronic Mail	
			FX Facsimile	
			TE Telephone	
Dep	PER06	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
			Condition: Required if providing a second contact number	
Dep	PER07	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			Condition: Required if providing a third contact numbers	
			EM Electronic Mail	
			FX Facsimile	
			TE Telephone	

RXQ.3.6.6 Billing Services Termination

Dep	PER08	364	Communication Number	X	AN 1/80
Complete communications number including country or area code when applicable					
Condition: Required if providing a third contact numbers					

RXQ.3.6.6 Billing Services Termination**Segment:** **N1** **Name: Supplier (N1~SJ)****Position:** 030**Loop:** N1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: Supplier Name and Entity ID

REQUIRED

N1~SJ~SUPPLY-IT INC.~1~183529049~~41

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
Must Use	N102	93	Name	X AN 1/60
			Free-form name	
			Supplier Name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Supplier Entity ID	
Dep	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			41 Submitter	

RXQ.3.6.6 Billing Services Termination**Segment:** **PER Administrative Communications Contact****Position:** 080**Loop:** N1 Mandatory**Level:** Heading**Usage:** Conditional**Max Use:** 1**Purpose:** To identify a person or office to whom administrative communications should be directed**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:**Comments:****Notes:** PER~IC~CONTACT~TE~8005551212~EM~CONTACT@COMPANY.COM**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named IC Information Contact Registration Agent Contact to resolve this particular issue	
Must Use	PER02	93	Name	O AN 1/60
			Free-form name	
Must Use	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number EM Electronic Mail TE Telephone	
Must Use	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
Dep	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number Condition: Required if providing a second contact number EM Electronic Mail FX Facsimile TE Telephone	
Dep	PER06	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable Condition: Required if providing a second contact number	
Dep	PER07	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number Condition: Required if providing a third contact numbers EM Electronic Mail FX Facsimile TE Telephone	
Dep	PER08	364	Communication Number	X AN 1/80

RXQ.3.6.6 Billing Services Termination

Complete communications number including country or area code when applicable

Condition: Required if providing a third contact numbers

RXQ.3.6.6 Billing Services Termination**Segment:** **OTI** Original Transaction Identification**Position:** 010**Loop:** OTI Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify the edited transaction set and the level at which the results of the edit are reported, and to indicate the accepted, rejected, or accepted-with-change edit result**Syntax Notes:** 1 If OTI09 is present, then OTI08 is required.**Semantic Notes:** 1 OTI03 is the primary reference identification or number used to uniquely identify the original transaction set.

2 OTI06 is the group date.

3 OTI07 is the group time.

4 If OTI11 is present, it will contain the version/release under which the original electronic transaction was translated by the receiver.

5 OTI12 is the purpose of the original transaction set, and is used to assist in its unique identification.

6 OTI13 is the type of the original transaction set, and is used to assist in its unique identification.

7 OTI14 is the application type of the original transaction set, and is used to assist in its unique identification.

8 OTI15 is the type of action indicated or requested by the original transaction set, and is used to assist in its unique identification.

9 OTI16 is the action requested by the original transaction set, and is used to assist in its unique identification.

10 OTI17 is the status reason of the original transaction set, and is used to assist in its unique identification.

Comments: 1 OTI02 contains the qualifier identifying the business transaction from the original business application, and OTI03 will contain the original business application identification.

2 If used, OTI04 through OTI08 will contain values from the original electronic functional group generated by the sender.

3 If used, OTI09 through OTI10 will contain values from the original electronic transaction set generated by the sender.

Notes: REQUIRED

OTI~TR~TN~2001010100001~~~~~810

OTI~TR~TN~2001010100001~~~~~867

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	OTI01	110	Application Acknowledgment Code	M ID 1/2
			Code indicating the application system edit results of the business data	
			TE Transaction Set Accept with Error	
			Used when BGN08 = EV	
			TR Transaction Set Reject	
			Used when BGN08 = 82	
Must Use	OTI02	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			TN Transaction Reference Number	
Must Use	OTI03	127	Reference Identification	M AN 1/30

RXQ.3.6.6 Billing Services Termination

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

810: This data element is populated from

-248=BHT03

-568=BGN02

-810=BIG02

-867=BPT02

**Must
Use**

OTI10

143

Transaction Set Identifier Code

O ID 3/3

Code uniquely identifying a Transaction Set

EDI Transaction Set number transaction is in response to

248	Account Assignment/Inquiry and Service/Status
568	Contract Payment Management Report
810	Invoice
820	Payment Order/Remittance Advice
867	Product Transfer and Resale Report

RXQ.3.6.6 Billing Services Termination**Segment:** **REF** Customer ID (REF~12/Q5)**Position:** 020**Loop:** OTI Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

ID that uniquely defines the Customer in marketplace. Governing document define whether REF~12 or REF~Q5 is required

- REF~12 uses REF02 for ID; usually LDC Account Number

- REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT)

REQUIRED

REF~12~1011111123456780

REF~Q5~~10111111234567890ABCDEFGHIJKL

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which billing is rendered	
			Account number that identifies the unique Customer in the marketplace; sent in REF02	
			Q5 Property Control Number	
			SD ID (e.g. ESI ID) that identifies the unique Customer in the marketplace; sent in REF03	
Must Use	REF02	127	Account ID	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Invoice Number	
Used	REF03	352	SD ID	X AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.6 Billing Services Termination**Segment:** **REF** Old Customer ID (REF~45)**Position:** 020**Loop:** OTI Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:**Notes:**

Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
 REQUIRED when Customer ID has changed within last 45 days
 REF~45~10111111234

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			Identifies accounts being changed	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.6 Billing Services Termination**Segment:** **REF** Non-Billing Party Account ID (REF~11)**Position:** 020**Loop:** OTI Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 12**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:**

ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED if provided by the Non-Billing Party

REF~11~~1011111123

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Non-Billing Party Account ID	

RXQ.3.6.6 Billing Services Termination**Segment:** **REF** Usage ID (REF~6O)**Position:** 020**Loop:** OTI Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 12**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

Usage ID establishes a cross-reference to Usage (867 BPT02, 810 BIG05, 820 ??)
 REQUIRED
 REF~6O~2348400586

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification 60	
			Cross Reference Number NAESB uses this code to establish a cross-reference to Usage	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Non-Billing Party Account ID	

RXQ.3.6.6 Billing Services Termination**Segment:** **TED** Technical Error Description**Position:** 070**Loop:** TED Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify the error and, if feasible, the erroneous segment, or data element, or both**Syntax Notes:****Semantic Notes:****Comments:** 1 If used, TED02 will contain a generic description of the data in error (e.g., part number, date, reference number, etc.).**Notes:** More than one rejection reason code may be sent by repeating the TED Loop.
REQUIRED

TED~848~A76

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TED01	647	Application Error Condition Code	M ID 1/3
			Code indicating application error condition	
			848 Incorrect Data	
Must Use	TED02	3	Free Form Message	M AN 1/60
			Free-form text	
		008	Customer ID Exists But Not Active	
		A13	Other	
			Explanation required in NTE~ADD.	
		A76	Customer ID Invalid or Not Found	
		A83	Invalid or Unauthorized Action	
			Information provided is not supported	
		A84	Invalid Relationship	
			No established trading partner relationship with the sender.	
		ABN	Duplicate Request Received	
		ADM	Amount Does Not Match	
			The amount within the 810 Cancellation/Reversal does not match the original 810	
		API	Required Information Missing	
			Explanation required in NTE~ADD. May not be used in place of other, more specific error codes.	
		CRI	Cross Reference Number Invalid	
			Cross reference number provided on the 810 or 867 Cancel does not match the cross reference number on an open 867.	
		D76	Entity ID Invalid or Not Found	
		DDM	Dates Do Not Match	
			Valid for 810, 867	
			-810: The Service Period Begin and End Dates do not match the same dates on an open 867.	
			-867: The Service Period Dates do not match. The	

RXQ.3.6.6 Billing Services Termination

	Service Period End Date from the previous period does not match with the beginning date of current service period. There is a gap in service periods. For example, last read was August 27, and the first read was August 30.
DIV	Date Invalid
	Use NTE~ADD to further describe the invalid date
EXP	Billing Period Mismatch
	810 Received for billing period older than that supported by the Billing Party's system
FRF	Bill Type Mismatch
	Billing Party and Non-Billing Party do not have same bill type (e.g. an 810 was received by the Billing Party for a Customer that is listed as a DUAL bill option in the Billing Party's system. BGN08 must be EV for this rejection reason.
FRG	Bill Calculator Mismatch
	An invoice was received for a Customer with the Bill Calculator (REF*PC) data element different than what is listed in the receiver's system. BGN08 must be EV for this rejection reason
I76	Invoice Number Invalid or Missing
IIS	Invalid Interval Status
	Interval Detail usage data is sent when Interval Summary Usage Data was requested or vice versa.
INT	Interval Data Invalid or Not Found
	Valid for 867
MRI	Incorrect Meter Role for ID Type
NCP	No Cancellation Processed
	A second transaction is received for a given scenario (e.g. 810, 867) before or not with the cancellation of the first transaction. Replaces 'ABO' error.
OBW	Outside Bill Window
	Invoice received outside bill window
SUM	Sum of Details Does Not Equal Total
TCN	Total Charges Negative
	Total Charges Negative (for Billing Parties that do not allow negative charges)
TOU	Incorrect TOU Period
TXI	Invalid Tax Information

RXQ.3.6.6 Billing Services Termination**Segment:** **NTE** Note/Special Instruction**Position:** 080**Loop:** TED Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** 100**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction**Syntax Notes:****Semantic Notes:****Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.**Notes:** Used to further describe the rejection reason code sent in TED02.

REQUIRED when TED02 = A13, API, or DIV

NTE~ADD~ACCOUNT NOT FOUND

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NTE01	363	Note Reference Code	O ID 3/3
			Code identifying the functional area or purpose for which the note applies	
			ADD Additional Information	
Must Use	NTE02	352	Rejection Reason Text	M AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.6 Billing Services Termination

Segment: **SE** Transaction Set Trailer
Position: 090
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Notes: REQUIRED

SE~9~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.6 Billing Services Termination

RXQ.3.6.7: TERMINATION OF BILLING SERVICES

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.9.7

The Termination of Billing Services (TBS) transaction is used when the party providing billing services terminates those billing services for an account. The TBS transmits outstanding Non-Billing Party charges from the Billing Party to the Non-Billing Party.

The **Sender** is the Billing Party; the **Receiver** is the Non-Billing Party.

Each TBS transaction header contains

- **Billing Party ID**
- **Billing Party Name**
- **Customer ID**
- **Non-Billing Party ID**
- **Non-Billing Party Name**
- **Non-Billing Party Account ID**
- **Purpose**
- **Termination of Bill Services Unique ID**
- **Service Type**
- **Transaction Date**

Each TBS transaction detail contains

- **Write-off Amount**
- **Write-off Date.**

RXQ.3.6.6 Billing Services Termination**Sample Paper Transaction**

Termination of Billing Services Header	
Transaction Date:	20040413
TOBS ID:	04132004TR4877
Trans Purpose:	TOBS
Billing Party (BP) Name:	Distribute-It Incorporated
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Incorporated
NBP Entity ID:	546897321
Customer ID:	12345767890
NBP Customer Acct ID:	12345656788
Service Type:	Electric
Balance Returned:	\$100.00

RXQ.3.6.6 Billing Services Termination**Data Dictionary**

[??insert from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]	Group
Transaction Purpose	Identifies the reason for sending this information	M		[Write-off]	0:Header
Termination of Bill Services Unique ID	Unique number identifying this transaction and created by the originator of this transaction	M			0:Header
Termination of Billing Services Date	Date this transaction was created by the sender's application system.	M			0:Header
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M			1:Parties
Billing Party Entity Name	Billing Party's Name	M			1:Parties
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M			1:Parties
Non-Billing Party Entity Name	Non-Billing Party's Name	M			1:Parties
Billing Party Contact	Billing Party Contact Name	O			1:Parties
Billing Party E-mail	Billing Party Contact email	O			1:Parties
Billing Party Fax	Billing Party Contact Fax	O			1:Parties
Billing Party Phone	Billing Party Contact Phone	O			1:Parties
Balance Returned	Balance amount returned	M			2:Detail
Write-off Date	Date charges are written off Billing Party books	M			2:Detail
Customer Phone 1	Customer First Phone Number	BC	[M] if the Billing Party has a phone number		2:Detail
Customer Phone 2	Customer Second Phone Number	BC	[M] if the Billing Party has a second phone number		2:Detail
Customer Info	Customer Additional Information	O			2:Detail
Customer Name	Customer Name	M			2:Detail
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		BR: sent if previously received by Non-Billing Party	2:Detail
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M			2:Detail
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]	2:Detail

RXQ.3.6.6 Billing Services Termination**Code Values Dictionary**

[??insert from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Purpose	Write-off	Used to notify the non-billing party that the billing party will no longer pursue collections for this customer	22

RXQ.3.6.6 Billing Services Termination

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??insert from rtf]

RXQ.3.6.6 Billing Services Termination

248 NAESB RXQ.3.6.7 Termination of Billing Services

Functional Group ID=**SU****Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Account Assignment/Inquiry and Service/Status Transaction Set (248) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used for two-way, multi-transactional purposes of assigning accounts for collection, reporting status inquiries and inquiry responses and to update accounts between entities.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BHT	Beginning of Hierarchical Transaction	M	1		
LOOP ID - NM1						1	
M	030	NM1	Distribution Company Name and Entity ID	M	1		n1
LOOP ID - NM1						1	
M	030	NM1	Name: Supplier (N1~SJ)	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - HL						>1	
M	010	HL	Hierarchical Level	M	1		n2
M	020	NM1	Customer Name (NM1~D4)	M	1		n3
	060	REF	Non-Billing Party Account ID (REF~11)	C	>1		
M	060	REF	Customer ID (REF~X0)	M	>1		
	060	REF	Old Customer ID (REF~45)	C	>1		
	070	PER	Administrative Communications Contact	C	>1		
M	110	BAL	Balance Returned (BAL~CD)	M	1		
LOOP ID - DTP						>1	
M	120	DTP	Date of Termination of Billing Services (DTM~630)	M	1		
M	180	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The NM1 loop will contain only information pertaining to the Credit Grantor and the Agency.
2. The HL loop will contain parent-child (subordinate) data relationships pertaining to the debtor and/or any association to the debtor.
3. The NM1 segment will contain only information pertaining to the debtor and/or any subordinate association to the debtor.

RXQ.3.6.6 Billing Services Termination**Segment:** **ST** Transaction Set Header**Position:** 010**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of a transaction set and to assign a control number**Syntax Notes:****Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).**Comments:****Notes:** REQUIRED

ST~248~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.6 Billing Services Termination**Segment:** **BHT** Beginning of Hierarchical Transaction**Position:** 020**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number, date, and time**Syntax Notes:****Semantic Notes:**

- 1 BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.
- 2 BHT04 is the date the transaction was created within the business application system.
- 3 BHT05 is the time the transaction was created within the business application system.

Comments:**Notes:**

REQUIRED

BHT~0057~22~1234567890~20051127

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BHT01	1005	Hierarchical Structure Code	M ID 4/4
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	
			0057 Supergroup, subgroup, member	
			Customer	
Must Use	BHT02	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			01 Cancellation	
			Reinstate; used to reinstate a balance when Billing Party resumes collection activities for the Customer.	
			22 Information Copy	
			Write Off; used when the Billing Party stops pursuing collections for this Customer	
Used	BHT03	127	Reference Identification	O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time.	
Used	BHT04	373	Date	O DT 8/8
			Date expressed as CCYYMMDD	
			Date that the data was processed by the originator's application system	

RXQ.3.6.6 Billing Services Termination**Segment:** **NM1** Distribution Company Name and Entity ID**Position:** 030**Loop:** NM1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To supply the full name of an individual or organizational entity**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.

2 If NM111 is present, then NM110 is required.

Semantic Notes: 1 NM102 qualifies NM103.**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.**Notes:** REQUIRED

NM1~8S~3~DISTRIBUTE-IT INC.~~~~~1~999999999~40

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NM101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8S Consumer Service Provider (CSP)	
Must Use	NM102	1065	Entity Type Qualifier	M ID 1/1
			Code qualifying the type of entity	
			3 Unknown	
Must Use	NM103	1035	Name Last or Organization Name	M AN 1/35
			Individual last name or organizational name	
			Distribution Company Name	
Must Use	NM108	66	Identification Code Qualifier	M ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	NM109	67	Identification Code	M AN 2/80
			Code identifying a party or other code	
			Distribution Company Entity ID	
Must Use	NM111	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			Entity to accept transmission	
			The receiver is the Non-Billing Party	
			41 Submitter	
			Entity transmitting transaction set	
			The sender is the Billing Party	

RXQ.3.6.6 Billing Services Termination**Segment:** **NM1** **Name: Supplier (N1~SJ)****Position:** 030**Loop:** NM1 Mandatory**Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To supply the full name of an individual or organizational entity**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.

2 If NM111 is present, then NM110 is required.

Semantic Notes: 1 NM102 qualifies NM103.**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.**Notes:** Supplier Name and Entity ID

REQUIRED

NM1~SJ~3~SUPPLY-IT INC.~~~~~1~111222333~41

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NM101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ Service Provider	
			Identifies name and address information as pertaining to a service provider for which billing is being rendered	
Must Use	NM102	1065	Entity Type Qualifier	M ID 1/1
			Code qualifying the type of entity	
			3 Unknown	
Must Use	NM103	1035	Name Last or Organization Name	M AN 1/35
			Individual last name or organizational name	
			Supplier Name	
Must Use	NM108	66	Identification Code Qualifier	M ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	NM109	67	Identification Code	M AN 2/80
			Code identifying a party or other code	
			Supplier Entity ID	
Must Use	NM111	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			40 Receiver	
			Entity to accept transmission	
			The receiver is the 'Non-Billing Party'	
			41 Submitter	
			Entity transmitting transaction set	

RXQ.3.6.6 Billing Services Termination

The sender is the 'Billing Party'

RXQ.3.6.6 Billing Services Termination

Segment: **HL** Hierarchical Level
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:**Semantic Notes:****Comments:**

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: REQUIRED

HL~1~~24

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	HL01	628	Hierarchical ID Number	M AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
			Always '1' since there is only one account per 248 transaction	
Must Use	HL03	735	Hierarchical Level Code	M ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	
		24	Supergroup	
			Customer	

RXQ.3.6.6 Billing Services Termination**Segment:** **NM1** Customer Name (NM1~D4)**Position:** 020**Loop:** HL Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To supply the full name of an individual or organizational entity**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.

2 If NM111 is present, then NM110 is required.

Semantic Notes: 1 NM102 qualifies NM103.**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.**Notes:** REQUIRED

NM1~D4~3~JOHN ENERGY USER

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NM101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			D4 Debtor	
Must Use	NM102	1065	Entity Type Qualifier	M ID 1/1
			Code qualifying the type of entity	
			3 Unknown	
Used	NM103	1035	Name Last or Organization Name	O AN 1/35
			Individual last name or organizational name	
			Customer Name as it appears on the Customer's bill	

RXQ.3.6.6 Billing Services Termination**Segment:** **REF** Non-Billing Party Account ID (REF~11)**Position:** 060**Loop:** HL Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** >1**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:**

ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED if provided previously by the Non-Billing Party

REF~11~123456789019990102

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Non-Billing Party Account ID	

RXQ.3.6.6 Billing Services Termination**Segment:** **REF** Customer ID (REF~X0)**Position:** 060**Loop:** HL Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** >1**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:** ID that uniquely defines the Customer in marketplace.

REQUIRED

REF~X0~10111111234567890

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification X0 Debtor's Account	
Used	REF02	127	Customer Account ID	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.6 Billing Services Termination**Segment:** **REF** Old Customer ID (REF~45)**Position:** 060**Loop:** HL Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** >1**Purpose:** To specify identifying information**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.**Comments:****Notes:**

Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days

REQUIRED when the Customer ID has changed in the last 45 days

REF~45~1235367812

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			Identifies accounts being changed	
Used	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.6 Billing Services Termination**Segment:** **PER Administrative Communications Contact****Position:** 070**Loop:** HL Mandatory**Level:** Detail**Usage:** Conditional**Max Use:** >1**Purpose:** To identify a person or office to whom administrative communications should be directed**Syntax Notes:** **1** If either PER03 or PER04 is present, then the other is required.**2** If either PER05 or PER06 is present, then the other is required.**3** If either PER07 or PER08 is present, then the other is required.**Semantic Notes:****Comments:****Notes:** REQUIRED if in Billing Party systems

PER~IC~~TE~7175551111~TE~7175551112

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			IC Information Contact	
Used	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			TE Telephone	
Used	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
			Last Known Customer Telephone Number #1	
Used	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			TE Telephone	
Used	PER06	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
			Last Known Customer Telephone Number #2	

RXQ.3.6.6 Billing Services Termination**Segment:** **BAL** Balance Returned (BAL~CD)**Position:** 110**Loop:** HL Mandatory**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To identify the specific monetary balances associated with a particular account**Syntax Notes:****Semantic Notes:****Comments:****Notes:**

REQUIRED

BAL~CD~BD~325.67

BAL~CD~BD~-250.00

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BAL01	951	Balance Type Code	M ID 1/2
			Code indicating the type of balance	
			CD Cycle to Date	
			Denotes balance data associated with defined periods	
Must Use	BAL02	522	Amount Qualifier Code	M ID 1/3
			Code to qualify amount	
			BD Balance Due	
Must Use	BAL03	782	Monetary Amount	M R 1/18
			Monetary amount	
			Amount for which the Billing Party will (a) no longer pursue (original) or (b) resume pursuing (cancel) collections.	
			A negative amount indicates that the Non-Billing Party has been overpaid and is responsible for reimbursing the Customer	

RXQ.3.6.6 Billing Services Termination

Segment: **DTP** Date of Termination of Billing Services (DTM~630)

Position: 120

Loop: DTP Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify any or all of a date, a time, or a time period

Syntax Notes:

Semantic Notes: 1 DTP02 is the date or time or period format that will appear in DTP03.

Comments:

Notes: REQUIRED for an original 248 (BHT02 = 22)

DTP~630~D8~19990226

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTP01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time 630 Account Closed	
Must Use	DTP02	1250	Date Time Period Format Qualifier	M ID 2/3
			Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	
Must Use	DTP03	1251	Date Time Period	M AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times	

RXQ.3.6.6 Billing Services Termination

Segment: **SE** Transaction Set Trailer
Position: 180
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Notes: REQUIRED

SE~28~000000001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	