



## **North American Energy Standards Board**

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**NAESB RETAIL FINAL ACTION Ratified February 8, 2008**  
**For Quadrant: Retail Electric and Retail Gas Quadrants**

**Requesters: Joint REQ/RGQ BPS**  
**Request No.: 2007 Retail Annual Plan Item No. 5**  
**Request Title: Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

**1. RECOMMENDED ACTION:**

- Accept as requested
- Accept as modified below
- Decline

**EFFECT OF EC VOTE TO ACCEPT RECOMMENDED ACTION:**

- Change to Existing Practice
- Status Quo

**2. TYPE OF DEVELOPMENT/MAINTENANCE**

**Per Request:**

- Initiation
- Modification
- Interpretation
- Withdrawal
  
- Principle
- Definition
- Business Practice Standard
- Document
- Data Element
- Code Value
- X12 Implementation Guide
- Business Process Documentation

**Per Recommendation:**

- Initiation
- Modification
- Interpretation
- Withdrawal
  
- Principle
- Definition
- Business Practice Standard
- Document
- Data Element
- Code Value
- X12 Implementation Guide
- Business Process Documentation

**3. RECOMMENDATION**

**SUMMARY:**

The Joint Retail Electric and Retail Gas Quadrants' Technical Electronic Information Subcommittees submit this Recommendation for REQ/RGQ 2007 Annual Plan Item No. 5 – Customer Information Model Business Practices. These Model Business Practices detail the process for exchanging Customer Information between Market Participants in competitive electric and natural gas markets where Suppliers sell electricity and natural gas to Customers. This Recommendation modifies existing Model Business Practices to incorporate recommendations for changes made by the Joint REQ/RGQ Business Practices Subcommittees. The modifications are shown in tracking format. [Note: Final Actions do not show tracking format.]



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**RECOMMENDED STANDARDS:**

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## RXQ.8.5 – Related Standards

Customer Information transactions adhere to a number of standards originally set forth in RXQ.3:

### **RXQ.3.2.12t Commodity Service Type**

Sending parties explicitly identify the commodity for each Customer.

### **RXQ.3.2.14t Customer ID**

The 'Customer ID' data element is the unique identification of a Customer in a marketplace. 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).

The ZIP Code for the Customer must be provided whenever the Supplier is not the current Supplier to confirm that the Customer ID provided is correct.

### **RXQ.3.2.17t Entity ID**

Trading partners use Entity ID's in inner and outer transaction envelopes, including name segments such as the X12 N1 and NM1.

### **RXQ.3.2.33t Non-Billing Party Account ID**

Billing Parties and Clearinghouses 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 ID should be echoed in all future transactions.

### **RXQ.3.2.41t Old Customer ID**

In the case where a Distribution Company needs to change the Customer ID key for a Customer (for example, if the Distribution Company implements a new customer information system), some cross-reference between the old Customer ID and the new one is needed by the Supplier. The Distribution Company should provide both the Old Customer ID and the current Customer ID in transactions for 90 days.



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information*

## RXQ.8.6 – Technical Implementation: Customer Information

This section provides high-level conventions and themes found in the technical details for the implementation of NAESB Customer Information transactions in support of energy marketplaces.

The Customer Information transactions include:

- Customer Information Request
- Customer Information Rejection
- Customer Information Account Data Set
- Customer Information Usage Data Set
- Mass Customer List

Customer Information transactions flow from a Customer, an agent of the Customer, or Supplier to the Distribution Company, and from a Distribution Company to the Customer, a Supplier, or an agent of the Customer.

The technical specifications (X12) require that parties define themselves and their trading partners in each transaction as both:

- a) the type of entity (e.g. Distribution Company), and
- b) whether the defined entity is the sender/submitter, or receiver.



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Request*

### **RXQ.8.6.1 – Customer Information Request**

#### **Technical Implementation Of Business Process**

*Related Model Business Practice's: RXQ.8.3.1.4, RXQ.8.3.1.6, RXQ.8.3.2.2*

The Customer Information Request transaction is the inter-company communication that a Supplier or Customer uses to request Customer account and usage information from a Distribution Company or a Clearinghouse. The Customer Information Request transaction is NOT used to request or communicate customer information for enrollment or billing.

The **Sender** of the Customer Information Request is the Customer, a Supplier, an agent of either the Customer or the Supplier, or other market participants. The **Receiver** of the Customer Information Request is the organization that hosts account and historical usage for the Customer, and is usually either a Distribution Company or a Clearinghouse (e.g. ERCOT).

The Customer Information Request is identified by the Customer Information Request ID, assigned by the by the originator of the Uniform Electronic Transaction.

A separate Customer Information Request is required for each Customer (Customer ID ). The Customer Information Reject, Customer Information Account Data Set, and Customer Information Usage Data Set responses are cross-referenced to the Transaction ID of the Customer Information Request.

Each Customer Information Request header contains: Transaction ID, Transaction Date, Distribution Company Entity ID, Distribution Company Name, Supplier Entity ID, Supplier Name, Clearinghouse Entity ID, Clearinghouse Name, Customer Account ID or SSID, Customer ZIP, Customer Name

#### **Sample Paper Transaction: Request Data Set**

<b>Customer Information Request</b>	
<b>Customer Information Request Date:</b>	20040413
<b>Customer Information Request Unique ID:</b>	04132004TR4877
<b>Sender Name:</b>	Sell-It Incorporated
<b>Sender Entity ID:</b>	123456789
<b>Receiver Name:</b>	Distribute-It Incorporated
<b>Receiver Entity ID:</b>	546897321
<b>Customer ID :</b>	12345678901234



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**Data Dictionary**

Data Elem. Name	Description	Use	Condition	Comments [Options]
Customer Info Account Data Set Date	Date the transaction was generated	M		
Customer Info Account Data Set ID	Unique number created by the originator identifying this Customer Information transaction	M		
Distribution Company Entity ID	Distribution Company Entity ID (DUNS Number or DUNS+4 Number or other mutually-agreed upon number)	M		
Distribution Company Entity Name	Name that further identifies the Distribution Company	M		
Clearinghouse Entity ID	Clearinghouse Entity ID (e.g. DUNS Number )	RBC		
Clearinghouse Entity Name	Clearinghouse Name	RBC		
Supplier Entity ID	Supplier Entity ID (e.g. DUNS Number)	M		
Supplier Entity Name	Supplier Entity Name	M		
Billing Cycle	Billing Cycle	M		
Number Service Delivery Points	Number of Service Deliver Points	RBC		
Customer Name	Customer Name	M		
Customer Name Overflow	Additional information used to further identify the Customer, as defined in Billing Party's systems.	BC	M if in Distribution Company systems	
Service Location Address	Service Location Street Address	M		
Service Location City	Service Location City	M		
Service Location State	Service Location State	M		

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

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Data Elem. Name	Description	Use	Condition	Comments [Options]
Service Location ZIP	Service Location ZIP code	M		
Capacity Obligation	Capacity obligation or contribution	C	M if Service Type=Electric	
Transmission Obligation	Transmission obligation or contribution	C	M if Service Type=Electric	
Customer ID	Customer Account ID or Service Delivery ID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Previous Customer ID assigned by the Clearinghouse, for use when Clearinghouse changes Customer ID	BC	M when Account ID's are changed by Distribution Company	
Load Profile Assignment	Load Profile Assignment	C	M if Service Type=Electric	
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Meter Read Cycle	Meter Read Cycle	M		

**Code Values**

Data Element	Code Description	Code Definition	Code Value
Action Code	Request	Request	26
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Customer ID Type	Account	Account	11
Customer ID Type	Service Delivery ID	SD ID	Q5
Entity Type	Distribution Company	Distribution Company	8S
Entity Type	Supplier	Supplier	SJ

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Entity Type	Clearinghouse	Clearinghouse	AY
Entity Type	Customer	Customer	8R
Interval Level	Historical Interval Usage	Historical Interval Usage	HI
Interval Level	Historical Summary Usage	Historical Summary Usage	HU
Receiver/Submitter	Receiver	Receiver	40
Receiver/Submitter	Submitter	Submitter	41
Receiver/Submitter	Clearinghouse	Clearinghouse	OA
Request Type Action	Request	Request	7
Request Type Code	Inquiry	Inquiry	029
Transaction Purpose	Response	Response	11
Transaction Purpose	Request	Request	13

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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Rejection*

## **RXQ.8.6.2 – Customer Information Rejection**

### **Technical Implementation Of Business Process**

*Related Model Business Practices: RXQ.8.3.1.4, RXQ.8.3.1.6, RXQ.8.3.2.2*

The Customer Information Rejection transaction is the inter-company communication that a party uses to communicate rejection of a Customer Information Request.

The **Sender** of the Customer Information Request Reject is the organization that hosts account and historical usage for the Customer, and is usually either a Distribution Company or a Clearinghouse (e.g. ERCOT). The **Receiver** of the Customer Information Request Reject is the company that sent the Customer Information Request (either Customer, a Supplier, an agent of either the Customer or the Supplier, or other market participant).

The Customer Information Request Reject is identified by the Customer Information Request Reject ID, assigned by the by the originator of the Uniform Electronic Transaction.

A separate Customer Information Request Reject is required for each account. The Customer Information Request Reject is cross-referenced to the Transaction ID of the Customer Information Request.

Each Customer Information Request Reject header contains:

- Transaction ID
- Request Transaction ID
- Transaction Date
- Distribution Company Entity ID
- Distribution Company Name
- Supplier Entity ID
- Supplier Name
- Clearinghouse Entity ID
- Clearinghouse Name
- Customer ID
- Rejection Code
- Rejection Text



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Rejection*

**Sample Paper Transaction: Rejection**

<b>Customer Information Request Header</b>	
<b>Customer Information Request Date:</b>	20040413
<b>Customer Information Request Unique ID:</b>	04132004TR4877
<b>Sender Name:</b>	Sell-It Incorporated
<b>Sender Entity ID:</b>	123456789
<b>Receiver Name:</b>	Distribute-It Incorporated
<b>Receiver Entity ID:</b>	546897321
<b>Customer ID:</b>	12345678901234
<b>Accepted:</b>	No

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**Request Title: Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

**Data Dictionary**

Data Elem. Name	Description	Use	Condition	Comments [Options]
Customer Info Reject Date	Date the transaction was generated	M		
Customer Info Reject ID	Unique number created by the originator identifying this Customer Information transaction	M		
Distribution Company Entity ID	Distribution Company Entity ID (DUNS Number or DUNS+4 Number or other mutually-agreed upon number)	M		
Distribution Company Entity Name	Name that further identifies the Distribution Company	M		
Clearinghouse Entity ID	Clearinghouse Entity ID (e.g. DUNS Number )	RBC		
Clearinghouse Entity Name	Clearinghouse Name	RBC		
Supplier Entity ID	Supplier Entity ID (e.g. DUNS Number)	M		
Supplier Entity Name	Supplier Entity Name	M		
Customer Name	Customer Name, as sent in the Request	M		
Service Location ZIP	Service Location ZIP code	BC		
Customer ID	Customer Account ID or Service Delivery ID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Previous Customer ID assigned by the Clearinghouse, for use when Clearinghouse changes Customer ID	BC	M when Account ID's are changed by Distribution Company	
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]

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Rejection Code	Code identifying why it was rejected	M		
Rejection Text	Text identifying why it was rejected	M		

**Code Values**

Data Element	Code Description	Code Definition	Code Value
Action Code	Response	Response	27
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Customer ID Type	Account	Account	11
Customer ID Type	Service Delivery ID	SD ID	Q5
Entity Type	Distribution Company	Distribution Company	8S
Entity Type	Supplier	Supplier	SJ
Entity Type	Clearinghouse	Clearinghouse	AY
Entity Type	Customer	Customer	8R
Interval Level	Historical Interval Usage	Historical Interval Usage	HI
Interval Level	Historical Summary Usage	Historical Summary Usage	HU
Receiver/Submitter	Receiver	Receiver	40
Receiver/Submitter	Submitter	Submitter	41
Receiver/Submitter	Clearinghouse	Clearinghouse	OA
Rejection Reason Code	Customer ID exists but is active	Customer ID exists but is active	008
Rejection Reason Code	Other	Other	A13
Rejection Reason Code	Customer ID invalid or not found	Customer ID invalid or not found	A83
Rejection Reason Code	Action Code Invalid	Action Code Invalid	ACI
Rejection Reason Code	Requestor not certified	Requestor not certified	ANM
Rejection Reason Code	Required information missing	Required information missing	API

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Rejection Reason Code	Entity ID invalid or not found	Entity ID invalid or not found	D76
Rejection Reason Code	Duplicate	Duplicate	DUP
Rejection Reason Code	Maint Type Code Invalid	Maint Type Code Invalid	MTI
Rejection Reason Code	ZIP invalid	ZIP invalid	ZIP
Request Type Action	Reject	Reject	U
Request Type Code	Inquiry	Inquiry	029
Status Reason Code	Other	Other	A13
Status Reason Code	HI Unavailable	HI Unavailable	HIU
Status Reason Code	HU Unavailable	HU Unavailable	HUU
Transaction Purpose	Response	Response	11

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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Account Data Set*

### **RXQ.8.6.3 – Customer Information Account Data Set**

#### **Technical Implementation Of Business Process**

*Related Model Business Practices: RXQ.8.3.1.4, RXQ.8.3.1.6, RXQ.8.3.2.2*

The Customer Information Account Data Set transaction is the inter-company communication that a party uses to communicate acceptance and account-level information for the Customer.

The **Sender** of the Customer Information Account Data Set could be a Distribution Company or a Clearinghouse (e.g. ERCOT). The **Receiver** of the Customer Information Account Data Set is a supplier or other market participant.

The Customer Information Account Data Set is identified by the Customer Information Request Account Data Set ID, assigned by the originator of the Uniform Electronic Transaction.

A separate Customer Information Account Data Set is required for each Customer (Customer ID). The Customer Information Account Data Set is cross-referenced to the Customer Information Request Transaction ID.

Each Customer Information Account Data Set header contains:

- Transaction ID
- Transaction Date
- Distribution Company ID
- Distribution Company Name
- Supplier ID
- Supplier Name
- Clearinghouse ID
- Clearinghouse Name
- Customer Account ID or SSID
- Prev Cust Acct ID
- Customer Name
- Customer Name Overflow
- Address
- City
- State
- ZIP
- Billing Cycle
- Peak Load Contribution / Capacity Obligation.
- Transmission Obligation
- Wholesale Delivery Points
- Life Support Indicator
- Installed Capacity



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Account Data Set*

Each Customer Information Account Data Set includes the following details for each meter:

- Meter Number
- Meter Type
- Meter Multiplier
- Number of Dials
- Distribution Company Rate Class
- Distribution Company Rate Subclass
- Meter Reading Cycle
- Meter Cycle By Day of Month
- Load Profile Assignment
- Service Type

**Sample Paper Transaction: Customer Information Account Data Set**

<b>Customer Information Request Header</b>	
<b>Customer Information Account Data Set Date:</b>	20040413
<b>Customer Information Account Data Set Unique ID:</b>	04132004TR4877
<b>Sender Name:</b>	Sell-It Incorporated
<b>Sender Entity ID:</b>	123456789
<b>Receiver Name:</b>	Distribute-It Incorporated
<b>Receiver Entity ID:</b>	546897321
<b>Customer ID:</b>	12345678901234
<b>Accepted:</b>	No



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**Data Dictionary**

Customer Info Response Date	Date the transaction was generated	M	
Customer Info Response ID	Unique number created by the originator identifying this Customer Information transaction	M	
Distribution Company Entity ID	Distribution Company Entity ID (DUNS Number or DUNS+4 Number or other mutually-agreed upon number)	M	
Distribution Company Entity Name	Name that further identifies the Distribution Company	M	
Clearinghouse Entity ID	Clearinghouse Entity ID (e.g. DUNS Number )	RBC	
Clearinghouse Entity Name	Clearinghouse Name	RBC	
Supplier Entity ID	Supplier Entity ID (e.g. DUNS Number)	M	
Supplier Entity Name	Supplier Entity Name	M	
Billing Cycle	Billing Cycle	M	
Number Service Delivery Points	Number of Service Deliver Points	RBC	
Customer Name	Customer Name	M	
Customer Name Overflow	Additional information used to further identify the Customer, as defined in Billing Party's systems.	BC	M if in Distribution Company systems
Service Location Address	Service Location Street Address	M	
Service Location City	Service Location City	M	
Service Location State	Service Location State	M	
Service Location ZIP	Service Location ZIP code	M	

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Capacity Obligation	Capacity obligation or contribution	C	M if Service Type=Electric	
Transmission Obligation	Transmission obligation or contribution	C	M if Service Type=Electric	
Customer ID	Customer Account ID or Service Delivery ID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Previous Customer ID assigned by the Clearinghouse, for use when Clearinghouse changes Customer ID	BC	M when Account ID's are changed by Distribution Company	
Load Profile Assignment	Load Profile Assignment	C	M if Service Type=Electric	
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Meter Read Cycle	Meter Read Cycle	M		

**Code Values**

Data Element	Code Description	Code Definition	Code Value
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Customer ID Type	Account	Account	I1
Customer ID Type	Service Delivery ID	SD ID	Q5
Distribution Loss Factor	Distribution Company Defined A	Distribution Company Defined A	A
Distribution Loss Factor	Distribution Company Defined B	Distribution Company Defined B	B
Distribution Loss Factor	Distribution Company Defined C	Distribution Company Defined C	C
Distribution Loss Factor	Distribution Company Defined D	Distribution Company Defined D	D
Distribution Loss Factor	Distribution Company Defined E	Distribution Company Defined E	E
Distribution Loss Factor	Transmission Only	Transmission Only	T
Entity Type	Distribution Company	Distribution Company	8S

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Data Element	Code Description	Code Definition	Code Value
Entity Type	Supplier	Supplier	SJ
Entity Type	Clearinghouse	Clearinghouse	AY
Entity Type	Customer	Customer	8R
Interval Level	Historical Interval Usage	Historical Interval Usage	HI
Interval Level	Historical Summary Usage	Historical Summary Usage	HU
Life Support	Life Support Required	Life Support Required	Y
Life Support	Life Support Not Required	Life Support Not Required	N
Measure TOU Qualifier	Intermediate Peak	Intermediate Peak	43
Measure TOU Qualifier	Low	Low	66
Measure TOU Qualifier	Off Peak	Off Peak	41
Measure TOU Qualifier	On Peak	On Peak	42
Measure TOU Qualifier	Total	Total	51
Meter Type	Meter Type	Meter Type	[see guide]
Receiver/Submitter	Receiver	Receiver	40
Receiver/Submitter	Submitter	Submitter	41
Receiver/Submitter	Clearinghouse	Clearinghouse	OA
Request Type Action	Accept	Accept	WQ
Request Type Code	Inquiry	Inquiry	029
Transaction Action Code	Response	Response	27
Transaction Purpose	Cancellation	Cancellation	11
Transaction Purpose	Original	Original	13

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

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**NAESB RETAIL FINAL ACTION Ratified February 8, 2008**  
**For Quadrant: Retail Electric and Retail Gas Quadrants**

**Requesters: Joint REQ/RGQ BPS**  
**Request No.: 2007 Retail Annual Plan Item No. 5**  
**Request Title: Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Usage Data Set*

## **RXQ.8.6.4 – Customer Information Usage Data Set**

### **Technical Implementation Of Business Process**

*Related Model Business Practices: RXQ.8.3.1.4, RXQ.8.3.1.6, RXQ.8.3.2.2*

The Customer Information Usage Data Set transaction is the inter-company communication that itemizes energy consumption or demand, providing a historical profile of the Customer energy use over time. The transaction reflects usage from actual meter reads, estimated meter reads, interval meter reads, and unmetered usage. Customer Information Usage Data Set is not used to communicate monthly usage for billing purposes.

The types of usage transactions supported by Customer Information Set in energy markets are:

- Monthly usage
- Interval usage
- Summarized interval usage

Each Customer Information Usage Data Set transaction can include any of the following categories of Usage:

- Non-Interval Detail (PTD\*PL) – Monthly usage, including time of use, additive/subtractive, missing/abundance consumption,
- Unmetered Services Detail (PTD\*BD)
- Interval Detail (PTD\*PM)

The **Sender** of the transaction is either the meter reading entity, the Distribution Company, or a Clearinghouse (e.g. ERCOT). The **Receiver** of the usage could be a Customer, a Supplier, a Distribution Company or a Clearinghouse (e.g. ERCOT).

The usage is identified by the **Usage ID** (formerly 'Reference Number ID'). This Usage ID is assigned by the originator of the usage Uniform Electronic Transaction.

Each original Customer Information Set header contains:

- Sender Entity ID
- Sender Name
- Customer ID
- Customer Name
- Receiver Entity ID
- Receiver Name
- Purpose
- Usage ID
- Report Type Code
- Commodity Service Type
- Transaction Date



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*Customer Information Usage Data Set*

Each Customer Information Usage Data Set 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 Customer Information Usage Data Set 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 Customer Information Set 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



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Usage Data Set*

**Sample Paper Transaction: Historical Usage**

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



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)  
Customer Information Usage Data Set*

**Data Dictionary**

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]
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		



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*

*Customer Information Usage Data Set*

Data Elem. Name	Description	Use	Condition	Comments [Options]
Customer ID	Customer Account ID or Service Delivery ID; ID that uniquely defines the Customer in the marketplace.	M		
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 Report Type='INTERVAL'	
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	
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 Report Type='METER'	
Interval Meter Read Power Factor	Relationship between Watts and Volt - Amperes necessary to supply electric load	C	[M] when this measure is available	



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*

*Customer Information Usage Data Set*

Data Elem. Name	Description	Use	Condition	Comments [Options]
Interval Meter Read Estimated Actual Flag	Flag identifying if beginning and ending meter reads are estimated or actual		[M] when Report Type = '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 Report Type = 'METER'	
Interval Meter Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when Report Type = '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		



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)  
Customer Information Usage Data Set*

Data Elem. Name	Description	Use	Condition	Comments [Options]
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 Report Type='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 Report Type='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 Report Type='METER'	[Beg / End actual; Beg actual / End estimated; Actual Total; As Billed; Beg est. / End actual; Beg est. / End est.]
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]



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Data Elem. Name	Description	Use	Condition	Comments [Options]
Summary Interval Read Beginning	Value specifying beginning reading for the metering period.	C	[M] when Report Type = 'METER'	
Summary Interval Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when Report Type = '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]



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Data Elem. Name	Description	Use	Condition	Comments [Options]
Pressure Correction Factor	Corrects for varying delivery pressures	C	[M] when Report Type='METER'	
Non-Interval Meter Read Therm Factor	Converts volumetric meter reading data to therm values	C	[M] when Report Type='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 Report Type='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 Report Type='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 Report Type='METER'	
Non-Interval Meter Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when Report Type='METER'	



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**Request Title: Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*

*Customer Information Usage Data Set*

Data Elem. Name	Description	Use	Condition	Comments [Options]
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, Kilowatt Hour, therms, ccf, mcf]

**Code Values**

Data Element	Code Description	Code Definition	Code Value
Customer ID Type	Account	Account	11



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**Request No.: 2007 Retail Annual Plan Item No. 5**

**Request Title: Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

*REQ/RGQ Customer Information Model Business Practices (RXQ.8)  
Customer Information Usage Data Set*

Data Element	Code Description	Code Definition	Code Value
Customer ID Type	Service Delivery ID	SD ID	Q5
Date Qualifier	Service Period End	Service Period End	151
Date Qualifier	Service Period Start	Service Period Start	150
Entity Type	Distribution Company	Distribution Company	8S
Entity Type	Supplier	Supplier	SJ
Entity Type	Clearinghouse	Clearinghouse	AY
Entity Type	Customer	Customer	8R
Interval Level	Historical Interval Usage	Historical Interval Usage	HI
Interval Level	Historical Summary Usage	Historical Summary Usage	HU
Measure TOU Qualifier	Intermediate Peak	Intermediate Peak	43
Measure TOU Qualifier	Summer Super On-Peak	Summer Super On-Peak	71
Measure TOU Qualifier	Low	Low	66
Measure TOU Qualifier	Off Peak	Off Peak	41
Measure TOU Qualifier	On Peak	On Peak	42
Measure TOU Qualifier	Total	Total	51
Meter Role	Additive	Additive	A
Meter Role	Ignore	Ignore	I
Meter Role	Subtractive	Subtractive	S
Meter Type	Meter Type	Meter Type	[see guide]
Quantity Qualifier	Estimated	Estimated	KA
Quantity Qualifier	Actual	Actual	QD
Receiver/Submitter	Receiver	Receiver	40
Receiver/Submitter	Submitter	Submitter	41
Receiver/Submitter	Clearinghouse	Clearinghouse	OA



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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)  
Customer Information Usage Data Set*

<b>Data Element</b>	<b>Code Description</b>	<b>Code Definition</b>	<b>Code Value</b>
Report Type Code	Interval	Interval	CI
Report Type Code	Non-Interval & Unmetered	Non-Interval & Unmetered	DR
Report Type Code	Non-Interval	Non-Interval	DD
Request Type Code	Inquiry	Inquiry	029
Transaction Action Code	Response	Response	27
Transaction Purpose	Original	Original	13
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

FOR EVALUATION PURPOSES ONLY



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**Request No.: 2007 Retail Annual Plan Item No. 5**  
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*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Customer Information Usage Data Set*

### **RXQ.8.6.5 – Mass Customer List**

#### **Technical Implementation Of Business Process**

*Related Model Business Practices: 8.3.2.2*

The Mass Customer List transaction is the inter-company communication that provides a high-level energy profile of qualified Customers. The transaction reflects summarized usage from actual meter reads, estimated meter reads, interval meter reads, and unmetered usage. The Mass Customer List is not used to communicate monthly usage for billing purposes.

The **Sender** of the transaction is the party that hosts Customer Information, usually either the Distribution Company or a Clearinghouse (e.g. ERCOT). The **Receiver** of the usage will be a Supplier.

The Mass Customer List may be posted on a website, or sent via e-mail, via postal on a CD, or via traditional NAESB internet communications.

The Mass Customer List is not available in X12 EDI format.

FOR EVALUATION PURPOSES ONLY



**NAESB RETAIL FINAL ACTION Ratified February 8, 2008**  
**Retail Electric and Retail Gas Quadrants**

**For Quadrant:**

**Requesters:**

**Request No.:**

**Request Title:**

**Joint REQ/RGQ BPS**

**2007 Retail Annual Plan Item No. 5**

**Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Mass Customer List*

Data Dictionary

Data Elem. Name	Description	Use	Condition	Comments [Options]
Customer ID	Customer Account ID or Service Delivery ID; ID that uniquely defines the Customer in the marketplace.	RBC	M if required by Applicable Regulatory Authority	
Customer Name	Customer Name	M		
Customer Name Overflow	Additional information used to further identify the Customer, as defined in Billing Party's systems.	BC	M if in host systems	
Interval Meter Indicator	Interval Meters on Account	M		[Yes, No]
Mail Address	Mail Address	M		
Mail Address 2	Mail Address 2	BC	M if in host systems	
Mail City	Mail City	M		
Mail State	Mail State	M		
Mail ZIP	Mail ZIP code	M		
Old Customer ID	Previous Customer ID assigned by the Distribution Company, for use when Distribution Company changes Customer ID	BC	M when Account ID's are changed by Distribution Company	
Billing Cycle	Billing Cycle	M		
Budget Bill Indicator	Budget Billing	M		[Yes, No]
Capacity Obligation	Capacity obligation or contribution	C	M if Commodity Service Type=Electric	
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Load Profile Class	Load Profile Class	RBC	M when available in host's system .	
Load Profile Segment	Load Profile Segment	RBC	M when available in host's system .	
Meter Number	Meter Number	M		
Meter Read Cycle	Meter Read Cycle	M		



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**Retail Electric and Retail Gas Quadrants**

**For Quadrant:**

**Requesters:**

**Request No.:**

**Request Title:**

**Joint REQ/RGQ BPS**

**2007 Retail Annual Plan Item No. 5**

**Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*

*Mass Customer List*

Data Elem. Name	Description	Use	Condition	Comments [Options]
Meter Type	Meter Type	M		[KWMON, KHMON, etc]
Number Service Delivery Points	Number of Service Deliver Points or Units (e.g. unmetered)	M		
Rate	Distribution Company Rate	M		
Service Location City	Service Location City	M		
Service Location House	Service Location House Number	M		
Service Location State	Service Location State	M		
Service Location Street	Service Location Street	M		
Service Location ZIP	Service Location ZIP code	M		
Transmission Obligation	Transmission obligation or contribution	C	M if Commodity Service Type=Electric	
Actual / Estimated Indicator	Actual / Estimated Indicator	M		[Actual, Estimated]; Repeats per month per measure
Meter Read Date	Meter Read Date	M		Repeats per month per measure
Quantity	Quantity	M		Repeats per month per measure
Unit of Measure	Unit of Measure	M		[KW, KWH, etc]; Repeats per month per measure

Code Values

Data Element	Code Description	Code Definition	Code Value
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Customer ID Type	Account	Account	11
Customer ID Type	Service Delivery ID	SD ID	Q5
Unit of Measure	kiloWatts	Kilowatt demand	KW
Unit of Measure	kiloWatt	kilowatt hours	KH



**NAESB RETAIL FINAL ACTION Ratified February 8, 2008**  
**Retail Electric and Retail Gas Quadrants**

**For Quadrant:**  
**Requesters:**  
**Request No.:**  
**Request Title:**

**Joint REQ/RGQ BPS**  
**2007 Retail Annual Plan Item No. 5**  
**Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*Mass Customer List*

Meter Type	[See "8.3.x.x Meter Type"]		
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**RXQ.8.6.6 – Synchronization List**

**Technical Implementation Of Business Process**

*Related Model Business Practices: 8.3.3.2*

The Synchronization List transaction is the inter-company communication that provides high-level Customer Information to enable Market Participants to coordinate their customer records . The Synchronization List is not used for billing purposes.

The **Sender** of the transaction is the party that hosts Customer Information, usually either the Distribution Company or a Registration Agent (e.g. ERCOT). The **Receiver** of the usage will be a Supplier or another authorized Market Participant.

The Synchronization List may be posted on a website, or sent via e-mail, via postal on a CD, or via traditional NAESB internet communications.

The Synchronization List is not available in X12 EDI format.

FOR EVALUATION PURPOSES ONLY



**NAESB RETAIL FINAL ACTION Ratified February 8, 2008**  
**For Quadrant: Retail Electric and Retail Gas Quadrants**

**Requesters: Joint REQ/RGQ BPS**  
**Request No.: 2007 Retail Annual Plan Item No. 5**  
**Request Title: Customer Information (Information Requirements and Technical Electronic Implementation Model Business Practices)**

*REQ/RGQ Customer Information Model Business Practices (RXQ.8)*  
*X12 Implementation Guidelines*

## X12 Implementation Guidelines

FOR EVALUATION PURPOSES ONLY

## 814 NAESB RXQ.8.6.1 Customer Information Request

Functional Group ID=**GE**

### Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

### 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	040	N1	Name: Market Participants	M	1		
						LOOP ID - N1	1
M	040	N1	Name: Customer	M	1		
M	070	N4	Geographic Location	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 - LIN	>1
M	010	LIN	Item Identification	M	1		
M	020	ASI	Action or Status Indicator	M	1		
M	030	REF	Customer ID (REF~12/Q5)	M	1		
M	150	SE	Transaction Set Trailer	M	1		

**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~814~00000001

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	M ID 3/3
Must Use	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

**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~11~200104021956531~20010402~~~200104011956531~~27

#### 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	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response 13 Request	M ID 2/2
Must Use	BGN02	127	<b>Reference Identification</b> 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.	M AN 1/30
Must Use	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8
Must Use	BGN08	306	<b>Action Code</b> Code indicating type of action Identifies the type of 814 being sent or received. Ignore ANSI X12 definitions of these codes. 26 Bankruptcy Filed - Review Account Customer Information Request	M ID 1/1

**Segment:** **N1 Name: Market Participants**

**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:** N1 defines market participants involved in this business process, including Supplier, Distribution Company and Clearinghouse where applicable. There will be 2 or more N1 market participant segments depending on the number of market participants involved.  
REQUIRED

N1~8S~Distribute-It, Inc.~1~123456789~~41

N1~SJ~Supply-It, Inc.~1~123456789~~40

N1~AY~Register-It, Inc.~1~123456789~~40

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company (DC) AY Clearinghouse Clearinghouse SJ Service Provider Supplier	M ID 2/3
Must Use	N102	93	<b>Name</b> Free-form name Market Participant Name	X AN 1/60
Must Use	N103	66	<b>Identification Code Qualifier</b> 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	X ID 1/2
Must Use	N104	67	<b>Identification Code</b> Code identifying a party or other code Market Participant Entity Common Code ID	X AN 2/80
Dep	N106	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual Required if DC is the sender, otherwise not used. 40 Receiver 41 Submitter OA Electronic Return Originator Required when forwarding a rejected Request (used only by Clearinghouses).	O ID 2/3

**Segment:** **N1** Name: Customer

**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:** Customer Name

REQUIRED

N1~8R~CUSTOMER NAME

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</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	X AN 1/60
			Free-form name	
			Supplier Name	

**Segment:** N4 Geographic Location

**Position:** 070

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify the geographic place of the named party

**Syntax Notes:** 1 If N406 is present, then N405 is required.

**Semantic Notes:**

- Comments:**
- 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
  - 2 N402 is required only if city name (N401) is in the U.S. or Canada.

#### Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	N403	116 Postal Code	M ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
		Required	

**Segment:** **LIN** Item Identification

**Position:** 010

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic item identification data

- Syntax Notes:**
- 1 If either LIN04 or LIN05 is present, then the other is required.
  - 2 If either LIN06 or LIN07 is present, then the other is required.
  - 3 If either LIN08 or LIN09 is present, then the other is required.
  - 4 If either LIN10 or LIN11 is present, then the other is required.
  - 5 If either LIN12 or LIN13 is present, then the other is required.
  - 6 If either LIN14 or LIN15 is present, then the other is required.
  - 7 If either LIN16 or LIN17 is present, then the other is required.
  - 8 If either LIN18 or LIN19 is present, then the other is required.
  - 9 If either LIN20 or LIN21 is present, then the other is required.
  - 10 If either LIN22 or LIN23 is present, then the other is required.
  - 11 If either LIN24 or LIN25 is present, then the other is required.
  - 12 If either LIN26 or LIN27 is present, then the other is required.
  - 13 If either LIN28 or LIN29 is present, then the other is required.
  - 14 If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:** 1 LIN01 is the line item identification

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

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** This LIN echoes the LIN from the Customer Information Request.

Required

LIN~1~SH~EL~SH~HI

Request for Historical Usage for each detail interval, which also includes a summary by meter.

LIN~1~SH~EL~SH~HU

Request for Historical Usage at the Meter Level or for Unmetered Services

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20
Must Use	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
Must Use	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service Commodity	M AN 1/48
Must Use	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested EL Electric Service	M ID 2/2
Must Use	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service HI Historical Interval Usage HU Historical Summarized Usage	M AN 1/48

**Segment:** **ASI** Action or Status Indicator

**Position:** 020

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

Required

ASI~WQ~029

### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	ASI01	306	<b>Action Code</b> Code indicating type of action 7 Request	M ID 1/2
Must Use	ASI02	875	<b>Maintenance Type Code</b> Code identifying the specific type of item maintenance 029 Inquiry	M ID 3/3

**Segment:** **REF** Customer ID (REF~12/Q5)

**Position:** 030

**Loop:** LIN 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. Governing document define whether REF~12 or REF~Q5 is required

- REF~12 uses REF02 for ID; usually Distribution Company account number

- REF~Q5 uses REF03 for ID; usually the Service Delivery ID (e.g. ESI ID in ERCOT)

REQUIRED unless not provided on the request

REF~12~2931839200

REF~Q5~1011111234567890ABCDEFGHIJKLMNOPS

#### 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	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered	M ID 2/3
Must Use	REF02	127	<b>Customer Account ID; use when REF01=12</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **SE** Transaction Set Trailer  
**Position:** 150  
**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~11~000000001

#### Data Element Summary

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

## 814 NAESB RXQ.8.6.2 Customer Information Reject

Functional Group ID=**GE**

### Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

### 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	
	040	N1	Name: Market Participants	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 - LIN			>1	
M	010	LIN	Item Identification	M	1		
M	020	ASI	Action or Status Indicator	M	1		
M	030	REF	Customer ID (REF~12/Q5)	M	>1		
M	030	REF	Rejection Reason (REF~7G)	M	>1		
M	150	SE	Transaction Set Trailer	M	1		

**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~814~000000001

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	ST01	143 <b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	M ID 3/3
Must Use	ST02	329 <b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

FOR EVALUATION PURPOSES ONLY

**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~11~200104021956531~20010402~~~200104011956531~~27

### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response	M ID 2/2
Must Use	BGN02	127	<b>Reference Identification</b> 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.	M AN 1/30
Must Use	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8
Must Use	BGN06	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Cross-reference to the BGN02 of the Customer Information Request REQUIRED	M AN 1/30
Must Use	BGN08	306	<b>Action Code</b> Code indicating type of action Identifies the type of Retail Market 814 being sent or received. Ignore ANSI X12 definitions of these codes. 27 Moved - Follow Up Customer Information Response	M ID 1/1

**Segment:** **N1** **Name:** Market Participants

**Position:** 040

**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:** N1 defines market participants involved in this business process, including Supplier, Distribution Company and Clearinghouse where applicable. There will be 2 or more N1 market participant segments depending on the number of market participants involved.  
REQUIRED

N1~8S~Distribute-It, Inc.~1~123456789~~41

N1~SJ~Supply-It, Inc.~1~123456789~~40

N1~AY~Register-It, Inc.~1~123456789~~40

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company AY Clearinghouse Clearinghouse SJ Service Provider Supplier	M ID 2/3
Must Use	N102	93	<b>Name</b> Free-form name Market Participant Name	X AN 1/60
Must Use	N103	66	<b>Identification Code Qualifier</b> 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	X ID 1/2
Must Use	N104	67	<b>Identification Code</b> Code identifying a party or other code Market Participant Entity Common Code ID	X AN 2/80
Dep	N106	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual REQUIRED 40 Receiver 41 Submitter OA Electronic Return Originator REQUIRED when forwarding a rejected Request (used only by Clearinghouses).	O ID 2/3

**Segment:** **LIN** Item Identification

**Position:** 010

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic item identification data

**Syntax Notes:**

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:**

- 1 LIN01 is the line item identification

**Comments:**

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** This LIN echoes the LIN from the Customer Information Request.

REQUIRED

LIN~1~SH~EL~SH~HI

Request for Historical Usage for each detail interval, which also includes a summary by meter.

LIN~1~SH~EL~SH~HU

Request for Historical Usage at the Meter Level or for Unmetered Services

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
Must Use	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
Must Use	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service Commodity ELECTRIC Electric Service GAS Natural Gas Service	M AN 1/48
Must Use	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
Must Use	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service HI Historical Interval Usage	M AN 1/48

Request to obtain Historical Interval Usage for this premise by interval.

If the intervals are available, the DC will send the 867\_02 Historical Usage, containing the following two PTD Loops:

- PTD~BO (Interval Summary)
- PTD~PM (Interval Detail)

If this Account/SD ID does not have interval meters, or if the intervals are not available, the DC will send the 867\_02 Historical Usage, containing any of the following PTD Loops, as appropriate, along with a status code REF~1P~HIU:

- PTD~BD (Unmetered Services)
- PTD~BO (Interval Summary)
- PTD~PL (Non-Interval Detail)

HU

Historical Summarized Usage

Request to obtain Historical Summarized Usage for this premise (interval, non-interval or unmetered). The DC will send the 867\_02 Historical Usage, which may contain any of the following PTD Loops:

- PTD~BD (Unmetered Services)
- PTD~BO (Interval Summary)
- PTD~PL (Non-Interval Detail)

FOR EVALUATION PURPOSES

**Segment:** **ASI** Action or Status Indicator

**Position:** 020

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

REQUIRED

ASI~WQ~029

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	ASI01	306	<b>Action Code</b> Code indicating type of action U Reject	M ID 1/2
Must Use	ASI02	875	<b>Maintenance Type Code</b> Code identifying the specific type of item maintenance 029 Inquiry	M ID 3/3

**Segment:** **REF** Customer ID (REF~12/Q5)

**Position:** 030

**Loop:** LIN 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. Governing document define whether REF~12 or REF~Q5 is required

- REF~12 uses REF02 for ID; usually Distribution Company account number
- REF~Q5 uses REF03 for ID; usually the Service Delivery ID (ESI ID in ERCOT) REQUIRED unless not provided on the request

REF~12~2931839200

REF~Q5~1011111234567890ABCDEFGHIJKLMNOPS

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Account number ID; sent in REF02	M ID 2/3
Must Use	REF02	127	<b>Customer Account ID; use when REF01=12</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **REF** Rejection Reason (REF~7G)

**Position:** 030

**Loop:** LIN 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:** More than one rejection reason code may be sent, by repeating the REF~7G segment.

Accept Response: Not Used  
Reject Response: REQUIRED

REF~7G~A13~ADDITIONAL REASON TEXT HERE

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 008 Customer ID exists but is not active Retired A13 Other Explanation REQUIRED in REF03. A76 Customer ID invalid or not found A83 Invalid or Unauthorized Action Information provided was not supported in the Texas SET Standards. ACI Action Code (ASI01) Invalid ANM Requestor not certified Supplier does not have a service agreement with the Distribution Company API Required information missing Explanation REQUIRED in REF03. May not be used in place of other, more specific error codes. D76 Entity Common Code ID [DUNS] Invalid or Not Found DOT Duplicate Original Transaction ID Original Transaction ID (BGN02) already submitted on ESI-ID. For ERCOT Use Only ERCOT 27 DUP Duplicate Transaction submitted contains the same BGN02, BGN06, (if applicable), and ESI-ID as another received transaction from the same Supplier ERCOT 27 MTI Maintenance Type Code (ASI02) Invalid ZIP Invalid Zip Code Only applicable to the first five characters of the zip	X AN 1/30

code, which are used for validation. ERCOT is the only entity that may validate on Zip Code.

<b>Dep</b>	<b>REF03</b>	<b>352</b>	<b>Description</b>	<b>X AN 1/80</b>
			A free-form description to clarify the related data elements and their content Used to further describe the reason code sent in REF02. Codes "A13" and "API" require a text explanation in this element.	

FOR EVALUATION PURPOSES ONLY

**Segment:** **SE** Transaction Set Trailer  
**Position:** 150  
**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~11~000000001

**Data Element Summary**

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

# 814 NAESB RXQ.8.6.3 Customer Information Account Data Set

Functional Group ID=**GE**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

## 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
	040	N1	Name: Market Participants	O	1		
						LOOP ID - N1	1
	040	N1	Name: Customer	C	1		
	050	N2	Additional Name Information	O	>1		
	060	N3	Service Delivery Address Information	C	1		
M	070	N4	Geographic Location	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 - LIN	>1
M	010	LIN	Item Identification	M	1		
M	020	ASI	Action or Status Indicator	M	1		
M	030	REF	Customer ID (REF~12/Q5)	M	1		
	030	REF	Status Reason (REF~1P)	C	>1		
	030	REF	Old Customer ID (REF~45)	C	1		
M	030	REF	Distribution Loss Factor (REF~AQ)	M	1		
	030	REF	Station ID (REF~SPL)	C	1		
	060	AMT	Installed Capacity (AMT~KC)	C	1		
	060	AMT	Peak Load Contribution (AMT~KZ)	C	1		
	060	AMT	Peak Demand (AMT~MA)	C	1		
M	060	AMT	Total (AMT~TA)	M	1		
						LOOP ID - NM1	>1
M	080	NM1	Meter Level Information	M	1		n1
M	130	REF	Meter Multiplier (REF~4P)	M	>1		
M	130	REF	Number of Dials (REF~IX)	M	>1		
M	130	REF	Load Profile (REF~LO)	M	>1		
M	130	REF	Meter Type (REF~MT)	M	1		
	130	REF	Distribution Company Rate Class (REF~NH)	C	1		
	130	REF	Distribution Company Rate Subclass (REF~PR)	C	1		
M	130	REF	Meter Reading Cycle (REF~TZ)	M	1		
	140	DTM	Meter Cycle by Day of the Month (DTM~313)	O	1		
M	150	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

FOR EVALUATION PURPOSES ONLY

**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~814~00000001

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	M ID 3/3
Must Use	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

**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~11~200104021956531~20010402~~~200104011956531~~27

### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response	M ID 2/2
Must Use	BGN02	127	<b>Reference Identification</b> 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.	M AN 1/30
Must Use	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8
Used	BGN06	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier REQUIRED Cross-reference to the BGN02 of the Customer Information Request	C AN 1/30
Must Use	BGN08	306	<b>Action Code</b> Code indicating type of action Identifies the type of Retail Market 814 being sent or received. Ignore ANSI X12 definitions of these codes. 27 Moved - Follow Up Customer Information Response	M ID 1/1

**Segment:** **N1** Name: Market Participants

**Position:** 040

**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:** N1 defines market participants involved in this business process, including Supplier, Distribution Company and Clearinghouse where applicable. There will be 2 or more N1 market participant segments depending on the number of market participants involved.  
REQUIRED

N1~8S~Distribute-It, Inc.~1~123456789~~41

N1~SJ~Supply-It, Inc.~1~123456789~~40

N1~AY~Register-It, Inc.~1~123456789~~40

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company (DC) AY Clearinghouse Clearinghouse SJ Service Provider Supplier	M ID 2/3
Must Use	N102	93	<b>Name</b> Free-form name Market Participant Name	X AN 1/60
Must Use	N103	66	<b>Identification Code Qualifier</b> 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	X ID 1/2
Must Use	N104	67	<b>Identification Code</b> Code identifying a party or other code Market Participant Entity ID	X AN 2/80
Dep	N106	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual Required if Distribution Company is the sender, otherwise not used. 40 Receiver 41 Submitter OA Electronic Return Originator Required when forwarded by Clearinghouse	O ID 2/3

**Segment:** **N1** Name: Customer

**Position:** 040

**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:** Customer Name

REQUIRED

N1~8R~CUSTOMER NAME

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</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	X AN 1/60
			Free-form name	
			Supplier Name	

**Segment:** N2 Additional Name Information  
**Position:** 050  
**Loop:** N1 Conditional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify additional names or those longer than 35 characters in length

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** Used to communicate additional name information such as 'store number', etc  
 REQUIRED if maintained by the Distribution Company

**Data Element Summary**

Used	Ref.	Data		Attributes
	Des.	Element	Name	
	N201	93	Name Free-form name	O AN 1/60

FOR EVALUATION PURPOSES ONLY

**Segment:** N3 Service Delivery Address Information  
**Position:** 060  
**Loop:** N1 Conditional  
**Level:** Heading  
**Usage:** Conditional  
**Max Use:** 1  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N301	166	Address Information Address information	M AN 1/55
Used	N302	166	Address Information Address information	O AN 1/55

FOR EVALUATION PURPOSES ONLY

**Segment:** **N4 Geographic Location**

**Position:** 070

**Loop:** N1 Conditional

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify the geographic place of the named party

**Syntax Notes:** 1 If N406 is present, then N405 is required.

**Semantic Notes:**

- Comments:**
- 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
  - 2 N402 is required only if city name (N401) is in the U.S. or Canada.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>N401</b>	<b>19</b>	<b>City Name</b> Free-form text for city name REQUIRED	<b>M AN 2/30</b>
<b>Must Use</b>	<b>N402</b>	<b>156</b>	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency REQUIRED	<b>M ID 2/2</b>
<b>Must Use</b>	<b>N403</b>	<b>116</b>	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) REQUIRED	<b>M ID 3/15</b>

**Segment:** **LIN** Item Identification

**Position:** 010

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic item identification data

**Syntax Notes:**

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:**

**Comments:**

- 1 LIN01 is the line item identification
- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** This LIN echoes the LIN from the Customer Information Request.

Required

LIN~1~SH~EL~SH~HI  
Request for Historical Usage for each detail interval, which also includes a summary by meter.

LIN~1~SH~EL~SH~HU  
Request for Historical Usage at the Meter Level or for Unmetered Services

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
Must Use	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
Must Use	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service Commodity	M AN 1/48
Must Use	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	X ID 2/2
Must Use	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service HI Historical Interval Usage HU Historical Summarized Usage	X AN 1/48

**Segment:** **ASI** Action or Status Indicator

**Position:** 020

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

Required

ASI~WQ~029

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	ASI01	306	Action Code	M ID 1/2
			Code indicating type of action	
			WQ Accept	
Must Use	ASI02	875	Maintenance Type Code	M ID 3/3
			Code identifying the specific type of item maintenance	
			029 Inquiry	

**Segment:** **REF** Customer ID (REF~12/Q5)

**Position:** 030

**Loop:** LIN 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. Governing document define whether REF~12 or REF~Q5 is required

- REF~12 uses REF02 for ID; usually Distribution Company account number  
- REF~Q5 uses REF03 for ID; usually the Service Delivery ID (e.g. ESI ID in ERCOT)  
REQUIRED  
REF~12~2931839200  
REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPS

**Data Element Summary**

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

**Segment:** **REF** Status Reason (REF~1P)

**Position:** 030

**Loop:** LIN 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:** REQUIRED when status information must be conveyed

REF~1P~HUU~HISTORICAL USAGE UNAVAILABLE

### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b>		M ID 2/3
			Code qualifying the Reference Identification		
			1P	Accessorial Status Code	
				Used on the response when the request is accepted, and additional status information must be provided.	
Must Use	REF02	127	<b>Reference Identification</b>		X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			A13	Other	
				Explanation Required in REF03.	
			HIU	Historical Interval Usage Unavailable	
				Historical Usage summarized to a meter level will be provided instead (867_02).	
			HUU	Historical Usage Unavailable	
				No Historical Usage	
Dep	REF03	352	<b>Description</b>		X AN 1/80
			A free-form description to clarify the related data elements and their content		
			Used to further describe the reason code sent in REF02. Code "A13" requires a text explanation in this element.		

**Segment:** **REF** Old Customer ID (REF~45)

**Position:** 030

**Loop:** LIN 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 90 days  
REQUIRED if Customer ID has changed in the last 90 days.  
REF~45~1105687500

**Data Element Summary**

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

**Segment:** **REF** Distribution Loss Factor (REF~AQ)

**Position:** 030

**Loop:** LIN 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:** Defines the related loss factor value used in settlement

Required with Customer Information Set  
REF~AQ~T

#### 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	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification AQ Access Code	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier With the exception of code "T", each Distribution Company will post what each of the next 5 codes represent and how they are applied. A Distribution Company Defined A B Distribution Company Defined B C Distribution Company Defined C D Distribution Company Defined D E Distribution Company Defined E T Transmission Only	X AN 1/30

**Segment:** **REF** Station ID (REF~SPL)

**Position:** 030

**Loop:** LIN 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:** Defines the ISO-defined substation where distribution system is connected to transmission grid for the service delivery point.  
Required with Customer Information Set  
REF~SPL~MESA SUBSTATION

**Data Element Summary**

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

**Segment:** **AMT** Installed Capacity (AMT~KC)  
**Position:** 060  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Conditional  
**Max Use:** 1  
**Purpose:** To indicate the total monetary amount

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** REQUIRED for ELECTRIC if available  
 AMT~KC~752

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
Must Use AMT01	522	<b>Amount Qualifier Code</b> Code to qualify amount KC Obligated An amount a party has an obligation to pay upon a successful performance by another party, (e.g., funds obligated on a contract) Electric: Installed Capacity (as determined by control area).	M ID 1/3
Must Use AMT02	782	<b>Monetary Amount</b> Monetary amount Installed Capacity	M R 1/18

**Segment:** **AMT** Peak Load Contribution (AMT~KZ)  
**Position:** 060  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Conditional  
**Max Use:** 1  
**Purpose:** To indicate the total monetary amount

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** REQUIRED for ELECTRIC if available  
 AMT~KZ~752

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
Must Use	AMT01	522	<b>Amount Qualifier Code</b> Code to qualify amount KZ                      Mortgagor's Monthly Obligations Electric: Peak load contribution for the transmission service calculation, coincident with the Distribution Company Peak.	M ID 1/3
Must Use	AMT02	782	<b>Monetary Amount</b> Monetary amount Peak Load Contribution	M R 1/18

FOR EVALUATION PURPOSES ONLY

**Segment:** **AMT** Peak Demand (AMT~MA)  
**Position:** 060  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Conditional  
**Max Use:** 1  
**Purpose:** To indicate the total monetary amount

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** REQUIRED for ELECTRIC if the meter measures demand  
 REQUIRED for GAS  
 AMT~MA~423899.2

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
<b>Must Use</b>	<b>AMT01</b>	<b>522</b>	<b>Amount Qualifier Code</b>	<b>M ID 1/3</b>
			Code to qualify amount	
			MA	Maximum Amount
				Peak Demand or Maximum Daily Quantity (MDQ).
<b>Must Use</b>	<b>AMT02</b>	<b>782</b>	<b>Monetary Amount</b>	<b>M R 1/18</b>
			Monetary amount	
				Peak Demand (kW) for Electric or MDQ (Dekatherms) for gas.

FOR EVALUATION PURPOSES ONLY

**Segment:** **AMT** Total (AMT~TA)  
**Position:** 060  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the total monetary amount  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:**

REQUIRED  
 AMT~TA~12345678.9

**Data Element Summary**

Ref.	Des.	Data Element	Name	Attributes
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount TA	M ID 1/3 Total Annual Sales Total kWh (Electric) or Dekatherms (Gas)
Must Use	AMT02	782	Monetary Amount Monetary amount Total kWh (Electric) or Dekatherms (Gas)	M R 1/18

FOR EVALUATION PURPOSES ONLY

**Segment:** **NM1** Meter Level Information

**Position:** 080

**Loop:** NM1 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~MQ~3

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	NM101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
			MQ Metering Location	
Must Use	NM102	1065	<b>Entity Type Qualifier</b> Code qualifying the type of entity	M ID 1/1
			3 Unknown	

**Segment:** REF Meter Multiplier (REF~4P)

**Position:** 130

**Loop:** NM1 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:** One meter multiplier segment for each meter type, creating the potential for more than one REF~4P segment per NM1 Loop.

For instance, if the meter has multiple meter types, and therefore the REF~MT segment is REF~MT~COMBO, there will be multiple REF~4P segments, one to indicate the meter multiplier for each type. For example,

```

NM1~MQ~3~~~~~32~1234568MG
REF~MT~COMBO
REF~4P~1200~K1015~TU^41
REF~4P~1~KH015

```

Required with Customer Information Set, one for each meter type for each meter that is for billing purposes. Not used for UNMETERED services

REF~4P~10~KHMON~TU^41

REF~4P~1~K1MON~TU^41

### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 4P Affiliation Number Meter Multiplier (Ending Reading - Beginning Reading) * Meter Multiplier = Billed Usage	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Multiplier	X AN 1/30
Must Use	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element.	X AN 1/80
Must Use	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier Note this is a composite data element. Populate C04001 & C04002.	O
Must Use	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification TU Trial Location Code Time of Use	M ID 2/3
Must Use	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as	M AN 1/30

specified by the Reference Identification Qualifier

NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.

41	Off Peak
42	On Peak
43	Intermediate Peak
51	Totalizer

FOR EVALUATION PURPOSES ONLY

**Segment:** **REF** Number of Dials (REF~IX)

**Position:** 130

**Loop:** NM1 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:**

One number of dials segment for each meter type, creating the potential for more than one REF~IX segment per NM1 Loop.  
REQUIRED, one for each meter type for each meter that is used for billing purposes that has dials. Not used for UNMETERED services or demand  
REF~IX~6.0~KHMON~TU^51

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification IX Item Number Number of Dials on the Meter displayed as X.Y, where X is dials to the left of the decimal point, and Y dials to the right.	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Number of Dials	X AN 1/30
Must Use	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element.	X AN 1/80
Must Use	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier Note that this is a composite data element. Populate C04001 and C04002.	O
Must Use	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification TU Trial Location Code Time of Use	M ID 2/3
Must Use	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Other codes can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements. 41 Off Peak 42 On Peak 43 Intermediate Peak 51 Totalizer	M AN 1/30

**Segment:** **REF** Load Profile (REF~LO)

**Position:** 130

**Loop:** NM1 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:**

REQUIRED:

(a) for each non-interval meter used for billing purposes, and

(b) if load profile is available. Includes UNMETERED services.

REF~LO~GS

### 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	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LO Load Planning Number Load profile  For gas, it is critical that a base line and trend be provided if the Supplier is responsible for scheduling nominations. The Load Profile information is used for both nominations and scheduling.	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Electric: Load Profile Gas: Baseline	X AN 1/30
Dep	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Electric: Not Used Gas: Trend (DTH per day)	X AN 1/80

**Segment:** **REF** Meter Type (REF~MT)

**Position:** 130

**Loop:** NM1 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:**

See "RXQ.3.2.34 Meter Type". Coded value that defines the measure type and the frequency the meter is read. Only one Meter Type REF~MT segment for each NM1 loop. Use code 'COMBO' for multiple meter types, with specific meter types identified in REF03 for each meter attribute.

REQUIRED for each meter that is used for billing purposes. Not used for UNMETERED services.

REF~MT~KHMON

REF~MT~TZDAY

REF~MT~COMBO

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MT Meter Ticket Number Meter Type	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter type is a five-character field: (a) first two characters are type of consumption; (b) last three characters are metering interval reported for billing purposes. "COMBO" is used for meters that record more than one measurement. Valid values include combinations of the following: Type of Consumption Electric: -EA: Each -K1: kiloWatt Demand (kW) -k2: Kilovolt Amperes Reactive Demand (kVAR) -K3: Kilovolt Amperes Reactive Hour (kVARH) -K4: Kilovolt Amperes (kVA) -K5: Kilovolt Amperes Reactive (kVAR) -KH: kiloWatt Hour (kWh) -T9: Thousand kiloWatt Hours (MW) Gas: -BY: British Thermal Unit - (Btu) -BZ: Million BTUs (MMBtu - Dekatherms) -EA: Each (Used for Unmetered Accounts) -HH: Hundred Cubic Feet (Ccf) -TD: Therms -TZ: Thousand Cubic Feet (Mcf)	X AN 1/30

Metering Interval Reported for Billing Purposes

-nnn: Number of minutes from 001 to 999

-ANN: Annual

-BIA: Bi-annual

-BIM: Bi-monthly

-DAY: Daily

-MON: Monthly

-QTR: Quarterly

-TOU: Time of Use

Examples:

-KHMON: kiloWatt Hours Per Month

-K1015: kiloWatt Demand per 15 minute interval

-HHMON: Hundred Cubic Feet Per Month

-TZDAY: Thousand Cubic Feet Per Day

-COMBO: meter has multiple measurements, e.g. both kWh and kw.

FOR EVALUATION PURPOSES

**Segment:** **REF** Distribution Company Rate Class (REF~NH)

**Position:** 130

**Loop:** NM1 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:** Required with Customer Information Set for each meter that is used for billing purposes.  
Also used for UNMETERED services.  
REF~NH~RS1

**Data Element Summary**

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

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

**Position:** 130

**Loop:** NM1 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:** Required with Customer Information Set if maintained by Distribution Company, for each meter used for billing purposes, including UNMETERED services  
REF~PR~123

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification PR Price Quote Number Distribution Company Rate Subclass - Used to provide further classification of a rate.	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Distribution Company Rate Subclass	X AN 1/30

**Segment:** **REF** Meter Reading Cycle (REF~TZ)

**Position:** 130

**Loop:** NM1 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:** Meter cycles will be provided on the Distribution Company's website.

Required for each meter used for billing purposes. For unmetered services, the billing cycle is provided.

REF~TZ~15

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification TZ Total Cycle Number Cycle number when the meter will be read.	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Metered: Meter Reading Cycle Unmetered: Billing Cycle	X AN 1/30

**Segment:** **DTM** Meter Cycle by Day of the Month (DTM~313)

**Position:** 140

**Loop:** NM1 Mandatory

**Level:** Detail

**Usage:** Optional

**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:** PR Request: Required if changing meter read based on a day of the month

All other Requests: Not Used

All other Responses: Not Used

DTM~313~~~~DD~01

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 313 Cycle New Permanent Read Day	<b>M ID 3/3</b>
Must Use	DTM05	1250	<b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format DD Day of Month in Numeric Format The numeric day of the month expressed using a lead zero if the number of the day is less than ten	<b>X ID 2/3</b>
Must Use	DTM06	1251	<b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates and times Day of month that the meter will be read, in DD format (i.e., 01 - 28).	<b>X AN 1/35</b>

**Segment:** **SE** Transaction Set Trailer  
**Position:** 150  
**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~11~000000001

**Data Element Summary**

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

# 867 NAESB RXQ.8.6.4 Customer Information Usage Data Set

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:

	<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	BPT	Beginning Segment for Product Transfer and Resale	M	1		
M	060	REF	Customer ID (REF~12/Q5)	M	1		
						LOOP ID - N1	>1
M	080	N1	Name: Market Participants	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 - PTD	1
M	010	PTD	Non-Interval Detail	M	1		
	020	DTM	Service Period Start (DTM~150)	O	10		
	020	DTM	Service Period End (DTM~151)	O	10		
	020	DTM	Meter Exchange Date (DTM~514)	O	10		
	030	REF	Meter Role (REF~JH)	O	20		
	030	REF	Meter Type (REF~MT)	O	20		
						LOOP ID - QTY	>1
	110	QTY	Quantity	O	1		
	160	MEA	Meter Reads (MEA~~PRQ)	O	40		
	160	MEA	Transformer Loss Factor (MEA~~CO)	O	40		
	160	MEA	Meter Multiplier (MEA~~MU)	O	40		
	160	MEA	Power Factor (MEA~~ZA)	O	40		
						LOOP ID - PTD	>1
M	010	PTD	Unmetered Services	M	1		
	020	DTM	Service Period Start (DTM~150)	O	10		
	020	DTM	Service Period End (DTM~151)	O	10		
	030	REF	Unmetered Service Type (REF~PRT)	O	20		
						LOOP ID - QTY	>1
	110	QTY	Quantity	O	1		
						LOOP ID - PTD	>1
M	010	PTD	Interval Summary	M	1		
	020	DTM	Service Period Start (DTM~150)	O	10		
	020	DTM	Service Period End (DTM~151)	O	10		
	020	DTM	Meter Exchange Date (REF~514)	O	10		
	030	REF	Meter Role (REF~JH)	O	20		

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	030	REF	Meter Type (REF~MT)	O	20	
			LOOP ID - QTY			>1
	110	QTY	Quantity	O	1	
	160	MEA	Measurements (Transformer Loss Factor)	O	40	
	160	MEA	Power Factor (MEA~~ZA)	O	40	
			LOOP ID - PTD			>1
M	010	PTD	Interval Detail	M	1	
	020	DTM	Service Period Start (DTM~150)	O	10	
	020	DTM	Service Period End (DTM~151)	O	10	
	020	DTM	Meter Exchange Date (REF~514)	O	10	
	030	REF	Channel Number (REF~6W)	O	20	
	030	REF	Meter Type (REF~MT)	O	20	
	030	REF	Meter Role (REF~JH)	O	20	
			LOOP ID - QTY			>1
	110	QTY	Quantity	O	1	
	210	DTM	Interval End Date Time (DTM~194)	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	030	SE	Transaction Set Trailer	M	1		

FOR EVALUATION PURPOSES ONLY

**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~867~00000001

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**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:** REQUIRED

BPT~52~200107310001~20000731~C1~~~~~2000107300003

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BPT01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 52 Response to Historical Inquiry Response to a request for historical meter reading	M ID 2/2
Must Use	BPT02	127	<b>Reference Identification</b> 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.	O AN 1/30
Must Use	BPT03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8
Used	BPT04	755	<b>Report Type Code</b> Code indicating the title or contents of a document, report or supporting item Provides header-level indication of what types of usage are included C1 Cost Data Summary Interval Meters DD Distributor Inventory Report Non-interval metered and unmetered DR Datalog Report Mixed Values - reporting cycle contains periods of both non-interval and interval data.	O ID 2/2
Must Use	BPT09	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Cross-references to the 814 Customer Information Request Transaction ID (BGN06 in original 814 Request)	M AN 1/30

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**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. Applicable Regulatory Authority governing documents define whether REF~12 or REF~Q5 is required.

- REF~12 uses REF02 for ID; usually Distribution Company account number  
 - REF~Q5 uses REF03 for ID; usually the Service Delivery ID (e.g. Service Delivery ID in ERCOT)  
 REQUIRED

REF~12~1234567890

REF~Q5~~10111111234567890ABCDEFGHIJKLMNQPORS

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> 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	M ID 2/3
Used	REF02	127	<b>Customer Account ID; use when REF01=12</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Must Use	REF03	352	<b>Service Delivery ID; use when REF01=Q5</b> A free-form description to clarify the related data elements and their content	X AN 1/80

FOR EVALUATION PURPOSES ONLY

**Segment:** **N1 Name: Market Participants**  
**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:** Used to identify parties to the transaction. A separate N1 loop and N1 segment is required for each market participant, including any clearinghouses (e.g. ERCOT)  
**REQUIRED**  
N1~8S~Distribution-It~1~007909411~~41  
N1~SJ~Supply-It~1~007909411~~40  
N1~AY~Clear-It~1~007909411~~OA

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company (Distribution Company) AY Clearinghouse SJ Service Provider Supplier	M ID 2/3
Must Use	N102	93	<b>Name</b> Free-form name	X AN 1/60
Must Use	N103	66	<b>Identification Code Qualifier</b> 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	X ID 1/2
Must Use	N104	67	<b>Identification Code</b> Code identifying a party or other code	X AN 2/80
Dep	N106	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 40 Receiver 41 Submitter OA Electronic Return Originator A firm, organization, or individual who collects a prepared tax return for the purpose of having an electronic return produced and who obtains the taxpayer's signature for electronic filing Used when forwarding through Clearinghouse	O ID 2/3

**Segment:** **PTD** Non-Interval Detail

**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 = PL (Non-Interval Detail)

One PTD~PL Loop 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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	<b>Product Transfer Type Code</b> Code identifying the type of product transfer PL Property Level Movement/Sale Non-Interval Detail	M ID 2/2
Dep	PTD04	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MG Meter Number Not used if the PTD06= "AO" or "AI"	X ID 2/3
Dep	PTD05	127	<b>Reference Identification</b> 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" When using codes "AI" and "AO", the Meter Number is not provided in the in the PTD04/PTD05. When using codes "CD", "DC", "DM", and "MD", the Meter Number must be provided in the PTD04/PTD05.	X AN 1/30
Used	PTD06	486	<b>Product Transfer Movement Type Code</b> To indicate the type of product transfer movement 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. AI Adjustment In Additive Metering Additive Usage for Additive meters off the master meter	O ID 2/2

FOR EVALUATION

AO	Adjustment Out Subtractive Metering	where a different Service Delivery ID has been assigned to the master and/or all applicable subtractive or additive meters. The receiver must add this consumption to the Service Delivery ID. When the PTD06 equals "AI", the REF~JH equals "A".
CD	Customer to Distributor Added Flat /Bypass- Missing or Abundance of Consumption	Subtractive Usage for Subtract meters off the master meter where a different Service Delivery ID has been assigned to the master and/or all applicable subtractive or additive meters. . The receiver must subtract this consumption from the Service Delivery ID. When the PTD06 equals "AO", the REF~JH equals "S".
DC	Distributor to Customer Added Slow- 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 Service Delivery ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "CD", the REF~JH equals "A".
DM	Distributor to Manufacturer Subtracted Fast- Missing or Abundance of Consumption	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 Service Delivery 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".
MD	Manufacturer to Distributor Added Tampering- 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 Service Delivery ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "DM", the REF~JH equals "S".
		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 Service Delivery 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".

**Segment:** **DTM** Service Period Start (DTM~150)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:**

PTD = PL (Non-Interval Detail)

REQUIRED, unless an Exchange Date (DTM~514) is substituted for this code.

DTM~150~20010101

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Service Period End (DTM~151)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:**

PTD = PL (Non-Interval Detail)

REQUIRED, unless an Exchange Date (DTM~514) is substituted for this code.

DTM~151~20010131

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Meter Exchange Date (DTM~514)

**Position:** 020

**Loop:** PTD Mandatory

**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:** PTD = PL (Non-Interval Detail)

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

Date Range in the first PTD is shown as:

DTM~150~20010101

DTM~514~20010114

Date Range in the second PTD is shown as:

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	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 514 Transferred Exchange Date	M ID 3/3
Must Use	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	X DT 8/8

**Segment:** **REF** Meter Role (REF~JH)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**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:** PTD = PL (Non-Interval Detail)

REQUIRED  
 REF~JH~A

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **REF** Meter Type (REF~MT)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**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:**

PTD = PL (Non-Interval Detail)

This segment is sent to indicate the type of usage that is reported in this PTD loop.  
 REQUIRED  
 REF~MT~KHMON

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MT Meter Ticket Number Meter Type	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier See "RXQ.3.2.24".	X AN 1/30

FOR EVALUATION PURPOSES ONLY

**Segment:** QTY Quantity  
**Position:** 110  
**Loop:** QTY Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

PTD = PL (Non-Interval Detail)  
 There will be one QTY loop for each Time of Use (i.e., one for On Peak kWh, one for Off Peak kWh, one for Total kWh, etc.)

Note 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.

The QTY02 must equal the MEA03 when the MEA03 is provided.

REQUIRED

QTY~QD~1000

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</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	
		92 Allotted Usage Quantity	
		AO Verified Receipts	
		KA Verified as actual value	
		QD Estimated	
		Quantity is estimated	
		Quantity Delivered	
		Quantity is actual	
Must Use	QTY02	380 Quantity	X R 1/15
		Numeric value of quantity	
		Total Consumption / Max Demand	

**Segment:** **MEA** Meter Reads (MEA~~PRQ)

**Position:** 160

**Loop:** QTY Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 40

**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:** PTD = PL (Non-Interval Detail)

REQUIRED

MEA03 must equal QYT02 when the MEA07=51

MEA~~PRQ~1000~~~~51

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	MEA02	738	<b>Measurement Qualifier</b>	<b>O ID 1/3</b>
			Code identifying a specific product or process characteristic to which a measurement applies	
			PRQ	Product Reportable Quantity
				Consumption
Must Use	MEA03	739	<b>Measurement Value</b>	<b>X R 1/20</b>
			The value of the measurement	
			Total consumption after multiplier is applied.	
Must Use	MEA07	935	<b>Measurement Significance Code</b>	<b>O ID 2/2</b>
			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

**Segment:** **MEA** Transformer Loss Factor (MEA~~CO)

**Position:** 160

**Loop:** QTY Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 40

**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:** PTD = PL (Non-Interval Detail)

REQUIRED when the transformer loss is not measured by the meter

The value in the field will always be a positive value

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

**Segment:** **MEA** Meter Multiplier (MEA~~MU)

**Position:** 160

**Loop:** QTY Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 40

**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:** PTD = PL (Non-Interval Detail)

If no meter multiplier, then populate with "1"

Note: 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>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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
				Meter Multiplier
				(Ending Reading - Beginning Reading) * Meter Multiplier = Billed Usage
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
			Meter Multiplier	

**Segment:** **MEA** Power Factor (MEA~~ZA)

**Position:** 160

**Loop:** QTY Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 40

**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:** PTD = PL (Non-Interval Detail)

REQUIRED if measured

MEA~~ZA~.95

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	MEA02	738	<b>Measurement Qualifier</b> Code identifying a specific product or process characteristic to which a measurement applies ZA Power Factor Relationship between watts and volt - amperes necessary to supply electric load	<b>O ID 1/3</b>
Must Use	MEA03	739	<b>Measurement Value</b> The value of the measurement Power Factor	<b>X R 1/20</b>

**Segment:** **PTD** Unmetered Services

**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 for each unmetered service type.

PTD~BD

#### 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	<b>Product Transfer Type Code</b> Code identifying the type of product transfer BD Issue - Other Department Unmetered Services Detail	M ID 2/2

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Service Period Start (DTM~150)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:** PTD = BD (Unmetered Services)

REQUIRED

DTM~150~20010101

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Service Period End (DTM~151)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:** PTD = BD (Unmetered Services)

REQUIRED

DTM~151~20010131

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **REF** Unmetered Service Type (REF~PRT)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**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:**

This segment is used to provide additional information to the Supplier for the specified Unmetered Service. It describes the type of device which this measurement loop references and can include additional text information which may be useful to the Supplier (i.e., a specific wattage of a light, additional text information for further clarification, etc.)

PTD = BD (Unmetered Services)

REQUIRED if there are unmetered services on the account

REF~PRT~MV~750  
REF~PRT~SD~400 Company Owned  
REF~PRT~SD~400 Customer Owned  
REF~PRT~MV~Third party maintained facilities

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification PRT Product Type Defined Unmetered Service Type	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If a new code is needed, it must be requested via the Change Control process.	X AN 1/30
			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
RR	Rail Road Crossings
SD	Sodium
TL	Traffic Lights
TR	Tranceiver
WM	Wallpacked Mercury Vapor
WS	Warning Sirens

<b>Dep</b>	<b>REF03</b>	<b>352</b>	<b>Description</b>	<b>X AN 1/80</b>
			A free-form description to clarify the related data elements and their content Used to provide additional clarification information to the Supplier for the Unmetered Service when necessary. When applicable, used to provide the specific wattage/lumens for a light.	

FOR EVALUATION PURPOSES ONLY

**Segment:** QTY Quantity  
**Position:** 110  
**Loop:** QTY Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

PTD = BD (Unmetered Services)  
 One QTY Loop is required for each consumption quantity per device.  
  
 Note: The billable 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.  
 QTY~QD~2000~EA^^20^KH^^100

**Data Element Summary**

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

**Segment:** **PTD** Interval Summary

**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 = BO (Interval Summary)

One PTD~BO loop is 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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	<b>Product Transfer Type Code</b> Code identifying the type of product transfer BO Designated Items Interval Summary - interval meter consumption summarized across intervals.	M ID 2/2
Dep	PTD04	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MG Meter Number Not used if the PTD06 = "AO" or "AI".	X ID 2/3
Dep	PTD05	127	<b>Reference Identification</b> 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.	X AN 1/30
Used	PTD06	486	<b>Product Transfer Movement Type Code</b> To indicate the type of product transfer movement AI Adjustment In Additive Metering Additive Usage for Additive meters off the master meter where a different Service Delivery ID has been assigned to the master and/or all applicable subtractive or additive meters. When the PTD06 equals "AI", the REF~JH equals "A". AO Adjustment Out Subtractive Metering Additive Usage for Subtract meters off the master meter	O ID 2/2

where a different Service Delivery ID has been assigned to the master and/or all applicable subtractive or additive meters. . When the PTD06 equals "AO", the REF~JH equals "A".

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Service Period Start (DTM~150)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:**

PTD = BO (Interval Summary)

REQUIRED, unless an Exchange Date (DTM~514) is substituted for this code.

DTM~150~20010101

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Service Period End (DTM~151)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:**

PTD = BO (Interval Summary)

REQUIRED, unless an Exchange Date (DTM~514) is substituted for this code.

DTM~151~20010131

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Meter Exchange Date (REF~514)

**Position:** 020

**Loop:** PTD Mandatory

**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:** PTD = BO (Interval Summary)

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

Date Range in the first PTD is shown as:

DTM~150~19990201

DTM~514~19990214

Date Range in the second PTD is shown as:

DTM~514~19990214

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	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 514 Transferred Exchange Date	M ID 3/3
Must Use	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	X DT 8/8

**Segment:** **REF** Meter Role (REF~JH)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**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:**

PTD = BO (Interval Summary)

REQUIRED

REF~JH~A

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **REF** Meter Type (REF~MT)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**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:**

PTD = BO (Interval Summary)

This segment is sent primarily to indicate the type of usage that is reported in this PTD loop. There will be one PTD loop for each unit of measure.

REQUIRED

REF~MT~KHMOM

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MT Meter Ticket Number Meter Type	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier See "RXQ.3.2.24".	X AN 1/30

FOR EVALUATION PURPOSES ONLY

**Segment:** QTY Quantity  
**Position:** 110  
**Loop:** QTY Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

PTD = BO (Interval Summary)  
 REQUIRED

Note: 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 as not been adjusted for any master/additive/ subtractive meter usage. The QTY02 must equal the MEA03 when the MEA03 is provided.

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.

Distribution Company should round - not truncate to adhere to the min/max requirements of 2/4 digits to the right of the decimal.  
 QTY~QD~746

**Data Element Summary**

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

**Segment:** **MEA** Measurements (Transformer Loss Factor)

**Position:** 160

**Loop:** QTY Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 40

**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:** PTD = BO (Interval Summary)

Required when the transformer loss is 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 readings. 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 readings."

The value in the field will always be a positive value, for example:

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

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

#### Data Element Summary

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

**Segment:** **MEA** Power Factor (MEA~~ZA)

**Position:** 160

**Loop:** QTY Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 40

**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:** PTD = BO (Interval Summary)

Required if measured

MEA~~ZA~.95

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	MEA02	738	<b>Measurement Qualifier</b> Code identifying a specific product or process characteristic to which a measurement applies ZA Power Factor Relationship between watts and volt - amperes necessary to supply electric load	<b>O ID 1/3</b>
Must Use	MEA03	739	<b>Measurement Value</b> The value of the measurement Power Factor	<b>X R 1/20</b>

**Segment:** **PTD** Interval Detail

**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)

One PTD~PM loop is required for each meter channel for each unit of measure.

PTD~PM~~~MG~1234568MG

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PTD01	521	<b>Product Transfer Type Code</b> Code identifying the type of product transfer PM Physical Meter Information Interval Detail	M ID 2/2
Must Use	PTD04	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MG Meter Number	X ID 2/3
Must Use	PTD05	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Number	X AN 1/30

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.

**Segment:** **DTM** Service Period Start (DTM~150)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:**

PTD = PM (Interval Detail)

Required, unless an Exchange Date (DTM~514) is substituted for this code.

DTM~150~20010101

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Service Period End (DTM~151)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:**

PTD = PM (Interval Detail)

Required, unless an Exchange Date (DTM~514) is substituted for this code.

DTM~151~20010131

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY

**Segment:** **DTM** Meter Exchange Date (REF~514)  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:**

PTD = PM (Interval Detail)

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

Date Range in the first PTD is shown as:  
 DTM~150~20010101  
 DTM~514~20010114~1200

Date Range in the second PTD is shown as:  
 DTM~514~20010114~1200  
 DTM~151~20010128

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 514 Transferred Exchange Date	M ID 3/3
Must Use	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	X DT 8/8
Must Use	DTM03	337	<b>Time</b> 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) in Central Prevailing Time (CT). 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.	X TM 4/8



**Segment:** **REF** Meter Type (REF~MT)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**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:**

PTD = PM (Interval Detail)

This segment is sent to indicate the type of usage that is reported in this PTD loop.

Required  
REF~MT~KHMOM

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MT Meter Ticket Number Meter Type	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier See "RXQ.3.2.24".	X AN 1/30

FOR EVALUATION PURPOSES ONLY

**Segment:** **REF** Meter Role (REF~JH)  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**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:**

PTD = PM (Interval Detail)

REQUIRED

REF~JH~A

**Data Element Summary**

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

**Segment:** QTY Quantity  
**Position:** 110  
**Loop:** QTY Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

PTD = PM (Interval Detail)  
 REQUIRED

Note: 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 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.

Distribution Company should round - not truncate to adhere to the min/max requirements of 2/4 digits to the right of the decimal.  
 QTY~QD~22348

**Data Element Summary**

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

**Segment:** **DTM** Interval End Date Time (DTM~194)

**Position:** 210

**Loop:** QTY 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:** PTD = PM (Interval Detail)

REQUIRED

DTM~194~20010115~1500

#### 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	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 194 Period End The date/time of the end of the interval	<b>M ID 3/3</b>
Must Use	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	<b>X DT 8/8</b>
Must Use	DTM03	337	<b>Time</b> 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) in Central Prevailing Time (CT). 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.	<b>X TM 4/8</b>

**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~42~00000001

**Data Element Summary**

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

FOR EVALUATION PURPOSES ONLY