

Illinois

Implementation Guide

For

Electronic

Data

Interchange

Transaction Set

Version 4010

867

Monthly Usage

Version 1.06 · November 20, 2000

Summary of Changes:

Date of Change	Description of Change
11/20/00 version 1.06	Added codes "K1MONIND & K1MONCUM" for meter types in REF02 and added code "22" for "actual" in MEA07.

867 Product Transfer and Resale Report

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.

Notes:

The specifications of this implementation guide are defined for the provision of monthly meter read information.

Updated: 6/6/00

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>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
			LOOP ID - N1			5	
	080	N1	Name	O	1		
	120	REF	Reference Identification	O	12		

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	
Must Use	010	PTD	Product Transfer and Resale Detail	M	1		
	030	REF	Reference Identification	O	20		
			LOOP ID - QTY			>1	
	110	QTY	Quantity	O	1		
	160	MEA	Measurements	O	40		
	210	DTM	Date/Time Reference	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>
Must Use	030	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:
Example: ST*867*0001~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 867 Product Transfer and Resale Report	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number 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: **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:

Example: BPT*00*345672*2000531*DD~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	BPT01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 01 Cancellation 05 Replace 07 Duplicate CO Corrected	M ID 2/2
	BPT02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Unique number to be determined between trading partners.	O AN 1/30
Must Use	BPT03	373	Date Date expressed as CCYYMMDD	M DT 8/8
	BPT04	755	Report Type Code Code indicating the title or contents of a document, report or supporting item Use "BR" for Special Report or Partial Month reporting. Use "KJ" for Meter Exchange. Use "DD" for Monthly Usage. BR Benchmark Testing Results DD Distributor Inventory Report KJ Change Proposal Data	O ID 2/2
	BPT09	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If this transaction is a correction or replacement, enter the transaction reference number (original BPT02) that this transaction is replacing, if available.	O AN 1/30

Segment: **N1** Name
Position: 080
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: The sender of this transaction should populate N106 with a code of "41".
Example: N1*SJ*DSP*1*112233444~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		8R Consumer Service Provider (CSP) Customer	
		8S Consumer Service Provider (CSP)	
		H8 Servicing Agent	
		SJ Service Provider	
		Identifies name and address information as pertaining to a service provider for which billing is being rendered	
	N102	93 Name	X AN 1/60
		Free-form name	
		If N101 - "H8" then enter the Meter Service Provider Name.	
		If N101 = "SJ" then enter Retail Electric Supplier Name.	
		If N101 = "8S" then enter Distribution Service Provider Name.	
		If N101 = "8R" then enter Customer Name.	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		Enter DUNS or DUNS+4 for MSP, DSP, or RES.	
	N106	98 Entity Identifier Code	O ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		40 Receiver	
		Entity to accept transmission	
		Recipient of this transaction.	
		41 Submitter	
		Entity transmitting transaction set	
		Sender of this transaction.	

Segment: **REF** Reference Identification
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.

Example: REF*12*43534535~

Data Element Summary				
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
			12 Billing Account Account number under which billing is rendered	
			45 Old Account Number Identifies accounts being changed	
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
			Enter Utility account number for Customer. Old account number is required if this number has changed.	

Segment: **PTD** Product Transfer and Resale 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:

Example:

PTD*SU~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	PTD01	521	Product Transfer Type Code	M ID 2/2
			Code identifying the type of product transfer	
			Use "PM" if reporting interval reads.	
			Use "SU" if reporting a summarized read.	
			PM	Physical Meter Information
			SU	Summary

Segment: **REF** Reference Identification
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.

Example: REF*NH*123*THIS IS THE RATE DESCRIPTION ~

Data Element Summary

Must Use	Ref. Des.	Data Element	Name	Attributes
	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification Use "SC" code when specifying that "metered" or "unmetered" usage is being reported. Use "LU" for service delivery point. Use "JH" for meter role. Use "MT" for meter type. Use "MG" for meter number, unless reporting unmetered reads, in which case no meter number is required.	M ID 2/3
			6W Sequence Number	
			IX Item Number	
			JH Tag	
			LO Load Planning Number	
			LU Location Number	
			MG Meter Number	
			MT Meter Ticket Number	
			SC Shipper Car Order Number	
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If REF01 = "LU" then enter Service Delivery Point. If REF01 = "MG" then enter Meter Number. If REF01 = "MT" then enter Meter Type. The meter type is expressed as a 5-character field. The first 2 characters are the type of consumption; the last 3 characters are the metering interval reported for billing purposes. Valid types of consumption are: 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) Examples: KHMON: Monthly Kilo-watt hours K1015: 15 minute intervals of KW demands. K3060: Hourly intervals of KVAR-Hours	X AN 1/30
			If REF01 = "SC" then enter "M" for metered or "U" for unmetered reads. If REF01 = "JH" then enter "S" if this interval read is being subtracted from the total read; "A", if this read is already included in the total read; or "I" for ignore. For monthly readings only - If REF01 = "IX", enter the number of dials.	

If REF01 = "6W" enter the Channel Number being reported.

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:
Example: QTY*QD*9120*KH~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
Must Use	QTY01	673 Quantity Qualifier Code specifying the type of quantity	M ID 2/2
		KA Estimated The quantity shown is an estimated quantity	
		QD Quantity Delivered	
	QTY02	380 Quantity Numeric value of quantity	X R 1/15
		Enter the quantity of consumption for service period specified here.	
	QTY03	C001 Composite Unit of Measure	O
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
		Enter the electricity unit measurement.	
Must Use	C00101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		K1 Kilowatt Demand Represents potential power load measured at predetermined intervals	
		K2 Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter	
		K3 Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters	
		KH Kilowatt Hour Value to be used as a multiplier to obtain a new value	
	QTY04	61 Free-Form Message	X AN 1/30
		Free-form information	

Segment: **MEA** Measurements
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: MEA05, MEA06, and MEA07 are used for Monthly Summarized reads only; not used on Monthly Interval Reads.

It is suggested that the demand and the watt hour multipliers only be reported during the first interval reading so that these segments are not repeated unnecessarily.

Examples:
 MEA*AA***KH*345656*345896~
 MEA**UG*9564*K1***41~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		AA Meter reading-beginning actual/ending actual	
		AE Meter reading-beginning actual/ending estimated	
		EA Meter reading-beginning estimated/ending actual	
		EE Meter reading-beginning estimated/ending estimated	
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		CO Core Loss	
		MU Multiplier	
		PJ Pulse Width	
		The time between the specified reference points on the leading and trailing edges of a pulse	
		UG Usage	
MEA03	739	Measurement Value	X R 1/20
		The value of the measurement	
		Meter constant	
MEA04	C001	Composite Unit of Measure	X
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	C00101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		K1 Kilowatt Demand	
		Represents potential power load measured at predetermined intervals	
		KH Kilowatt Hour	
MEA05	740	Range Minimum	X R 1/20

		The value specifying the minimum of the measurement range		
		Begin Reading		
MEA06	741	Range Maximum	X	R 1/20
		The value specifying the maximum of the measurement range		
		End Reading		
MEA07	935	Measurement Significance Code	O	ID 2/2
		Code used to benchmark, qualify or further define a measurement value		
		41		Off Peak
		42		On Peak

Segment: **DTM** Date/Time Reference
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: Required for Monthly Summarized reads only; not used on Monthly Interval reads.
Example: DTM*151*20000531*0030~

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element	Name	Attributes
Must Use	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		For Interval Reads, only one DTM with date and time is required.	
		150 Service Period Start	
		151 Service Period End	
		Use for interval reads.	
DTM02	373	Date	X DT 8/8
		Date expressed as CCYYMMDD	
		Enter the start and end dates of the reads.	
DTM03	337	Time	X TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
		For interval reads, enter time.	

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.

Example: SE*27*0002~

Data Element Summary

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

PURPOSE:

The purpose of the 867M is to report monthly usage for a particular customer to be used for billing purposes.

SCENARIO:

Upon reading the meter on cycle and validating the usage, the DSP or MSP will send an 867M to all interested parties to be used for billing a particular customer. The example below is for two demand meters sent by an MSP to a RES.

TRANSACTION:

ST~867~0014	
BPT~00~1999-12-01.12.59.59.999999~19991202~DD	Indicates transaction is original, transaction reference number, date of transaction, monthly usage identifier
N1~8S~DSP NAME~1~123456789	DSP qualifier, DSP name, DUNS indicator, DUNS number, lack of sender/receiver indicator indicates informational only
N1~SJ~RES NAME~1~876543219~~40	RES qualifier, RES name, DUNS indicator, DUNS number, receiver indicator
N1~H8~MSP NAME~9~3219876541234~~41	MSP qualifer, MSP name, DUNS + 4 indicator, sender indicator
N1~8R~CUSTOMER NAME	Customer qualifer, customer name
REF~12~1234567890	Identifies customer's bill account number with DSP
PTD~PM	Indicates usage by meter as opposed to summary
REF~MG~METER#1	Meter # qualifer, customer's meter #
REF~MT~K1MON	Meter type qualifier, meter type
REF~SC~M	Meter service indicator, indicates service is metered
REF~IX~5	Indicates number of dials on the meter
QTY~QD~12800~KH	Indicates actual kwh consumption
MEA~~MU~160~KH	Indicates kwh multiplier
MEA~~MU~160~K1	Indicates kw multiplier
MEA~AA~UG~12800~KH~75910~75990~51	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, indicates kwh, begin and end readings, indicates total use
MEA~AA~UG~120~K1~~.75~67	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, demand indicator, end demand reading, indicates demand is non-time related (implies this is max demand)
DTM~150~19991101	Beginning read date
DTM~151~19991201	Ending read date
PTD~PM	Indicates usage by meter as opposed to summary

REF~MG~METER#2	Meter # qualifer, customer's meter #
REF~MT~K1MON	Meter type qualifier, meter type
REF~SC~M	Meter service indicator, indicates service is metered
REF~IX~5	Indicates number of dials on the meter
QTY~QD~2650~KH	Indicates actual kwh consumption
MEA~AA~UG~2650~KH~6589~9239~51	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, indicates kwh, begin and end readings, indicates total use
MEA~AA~UG~7.50~K1~~7.50~67	Indicates whether begin and end reads are actual or estimated, usage indicator, demand, demand indicator, end demand reading, indicates demand is non-time related (implies this is max demand)
DTM~150~19991101	Beginning read date
DTM~151~19991201	Ending read date
SE~30~0014	

PURPOSE:

The purpose of the 867M is to report monthly usage for a particular customer to be used for billing purposes.

SCENARIO:

Upon reading the meter on cycle and validating the usage, the DSP or MSP will send an 867M to all interested parties to be used for billing a particular customer. The example below is for an interval meter.

TRANSACTION:

ST~867~0014	
BPT~00~1999-12-01.12.59.59.999999~19991202~DD	Indicates transaction is original, transaction reference number, date of transaction, monthly usage identifier
N1~8S~DSP NAME~1~123456789~~40	DSP qualifier, DSP name, DUNS indicator, DUNS number, receiver indicator
N1~SJ~RES NAME~1~876543219	RES qualifier, RES Name, DUNS indicator, DUNS number, lack of sender/receiver indicator indicates this is informational only
N1~H8~MSP NAME~9~9876543214321~~41	MSP qualifier, MSP name, DUNS + 4 indicator, DUNS + 4 number, sender indicator
N1~8R~CUSTOMER NAME	Customer qualifier, customer name
REF~12~1223334444	Identifies customer's bill account number with DSP
REF~45~1234567890	Old account number for customer, indicates account number has changed since prior month (optional)
PTD~PM	Indicates usage by meter as opposed to summary
REF~MG~METER#1	Meter # qualifier, customer's meter #
REF~MT~KH060	Meter type qualifier, meter type
REF~SC~M	Meter service indicator, indicates service is metered
QTY~QD~1000~KH	Indicates consumption is actual, quantity, unit of measure
DTM~151~19991101~0100	Indicates date and hour of consumption
QTY~QD~1100~KH	Indicates consumption is actual, quantity, unit of measure
DTM~151~19991101~0200	Indicates date and hour of consumption
QTY~QD~1500~KH	Indicates consumption is actual, quantity, unit of measure
DTM~151~19991101~0300	Indicates date and hour of consumption
QTY and DTM segments would be repeated for all intervals in the billing period.	
SE~733~0014	

PURPOSE:

The purpose of the 867M is to report monthly usage for a particular customer to be used for billing purposes.

SCENARIO:

Upon reading the meter on cycle and validating the usage, the DSP or MSP will send an 867M to all interested parties to be used for billing a particular customer. The example below is for a kwh meter.

TRANSACTION:

ST~867~0014	
BPT~00~1999-12-01.12.59.59.999999~19991202~DD	Indicates transaction is original, transaction reference number, date of transaction, monthly usage identifier
N1~8S~DSP NAME~1~123456789~~41	DSP qualifier, DSP name, DUNS indicator, DUNS number, sender indicator
N1~SJ~RES NAME~1~876543219~~40	RES qualifier, RES Name, DUNS indicator, DUNS number, receiver indicator
N1~8R~CUSTOMER NAME	Customer qualifer, customer name
REF~12~1234567890	Identifies customer's bill account number with DSP
PTD~PM	Indicates usage by meter as opposed to summary
REF~MG~METER#1	Meter # qualifier, customer's meter #
REF~MT~KHMON	Meter type qualifier, meter type
REF~SC~M	Meter service indicator, indicates service is metered
REF~IX~5	Indicates number of dials on the meter
QTY~QD~1600~KH	Indicates actual kwh consumption
MEA~AA~UG~1600~KH~77980~79580~51	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, usage type indicator, begin and end readings, measurement significance code
DTM~150~19991101	Beginning read date
DTM~151~19991201	Ending read date
SE~16~0014	

PURPOSE:

The purpose of the 867M is to report monthly usage for a particular customer to be used for billing purposes.

SCENARIO:

Upon reading the meter on cycle and validating the usage, the DSP or MSP will send an 867M to all interested parties to be used for billing a particular customer. The example below is for a time of use meter sent by an MSP to a RES.

TRANSACTION:

ST~867~0014	
BPT~00~1999-12-01.12.59.59.999999~19991202~DD	Indicates transaction is original, transaction reference number, date of transaction, monthly usage identifier
N1~8S~DSP NAME~1~123456789	DSP qualifier, DSP name, DUNS indicator, DUNS number, lack of sender/ receiver indicator indicates informational only
N1~SJ~RES NAME~1~876543219~~40	RES qualifier, RES name, DUNS indicator, DUNS number, receiver indicator
N1~H8~MSP NAME~9~3219876541234~41	MSP qualifer, MSP name, DUNS + 4 indicator, sender indicator
N1~8R~CUSTOMER NAME	Customer qualifer, customer name
REF~12~1234567890	Identifies customer's bill account number with DSP
PTD~PM	Indicates usage by meter as opposed to summary
REF~MG~METER#1	Meter # qualifier, customer's meter #
REF~MT~K1MON	Meter type qualifier, meter type
REF~SC~M	Meter service indicator, indicates service is metered
REF~IX~5	Indicates number of dials on the meter
QTY~QD~12000~KH	Indicates actual kwh consumption
MEA~~MU~160~KH	Indicates kwh multiplier
MEA~~MU~160~K1	Indicates kw multiplier
MEA~AA~UG~12000~KH~75910~75985~51	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, indicates kwh, begin and end readings, indicates total use
MEA~AA~UG~8000~KH~19857~19907~41	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, indicates kwh, begin and end readings, indicates off peak use
MEA~AA~UG~102.4~K1~~.64~42	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, demand indicator, end demand reading, indicates on peak demand
MEA~AA~UG~139.2~K1~~.87~41	Indicates whether begin and end reads are actual or estimated, usage indicator, usage, demand indicator, end demand

	reading, indicates off peak demand
DTM~150~19991101	Beginning read date
DTM~151~19991201	Ending read date
SE~21~0014	