

Portland General Electric
Implementation
Standard

for

Electronic
Data
Interchange

TRANSACTION SET

867

Ver/Rel 004010

Product Transfer and
Resale Report
Meter Interval and Historical Usage Reporting

Summary of Changes

January 7, 2002 Initial release

October 14, 2002 N103 Heading Position 080 – Deleted code 1
REF03 Heading Position 120 – Deleted code 11
DTM04 Detail Position 020 – Deleted DTM04
MEA01 Detail Position 160 – Deleted code AA, AE, EA and EE
MEA07 Detail Position 160 – Deleted code 83 and 88; added code 68
DTM04 Detail Position 210 – Deleted DTM04

January 31, 2005 Added comment on Summary of Changes:

- 867 posted on web in EDI format, requests not accepted via VAN.
- Data posted may not follow other PGE EDI specifications

REF01 Heading Position120: added comment for REF01 = 12:

“Utility-assigned account number for the end use customer. PGE does not post all 17 digit account number but only customer number without leading zeros, premise number without leading zeros and no check digit.

For example, the 17 digit customer account number of

00013542200019988 would look like 135422-1998.”

SEGMENT **ISA - Interchange Control Header for HISTORICAL METER DATA**

FUNCTION: First record of the transmission. Identifies the sender and receiver. Defines ANSI version.

ELEMENT	TITLE	FIELD SIZE	VALUE	REQ'D
ISA 01	Authorization Qualifier	X(2)	00	M
ISA 02	Authorization Information	X(10)	Blanks	M
ISA 03	Security Qualifier	X(2)	00	M
ISA 04	Security Information	X(10)	Blanks	M
ISA 05	Sender Interchange Qualifier	X(2)	12	M
ISA 06	Sender Interchange ID	X(15)	'5034648740B '	M
ISA 07	Receiver Interchange Qualifier	X(2)	09	M
ISA 08	Receiver Interchange ID	X(15)	'9999999999999999 '	M
ISA 09	Interchange Date	N(6)	020911 (yymmdd)	M
ISA 10	Interchange Time	N(4)	1403 (hhmm)	M
ISA 11	Standards Identifier	X(1)	U	M
ISA 12	Interchange Version	X(5)	00400	M
ISA 13	Interchange Control Number	N(9)	123456789	M
ISA 14	Acknowledgement Requested	X(1)	0	M
ISA 15	Test Indicator	X(1)	P	M
ISA 16	Sub-element Separator	X(1)	>	M

SEGMENT **GS - Functional Group Header for HISTORICAL METER DATA**

FUNCTION: Begins a functional group. Provides control information.

ELEMENT	TITLE	FIELD SIZE	VALUE	REQ'D
GS 01	Functional ID	X(2)	PT	M
GS 02	Application's Sender's ID	X(2/12)	'5034648740B '	M
GS 03	Application's Receiver's ID	X(2/12)	'999999999999'	M
GS 04	Interchange Date	N(9)	20020911 (yyyymmdd)	M
GS 05	Interchange Time	N(4)	1403 (hhmm)	M
GS 06	Data Interchange Control Number	N(1/9)	123456789	M
GS 07	Responsible Agency Code	X(1)	X	M
GS 08	Version Number	X(1/12)	004010	M

SEGMENT **ISA - Interchange Control Header for INTERVAL
METER DATA**

FUNCTION: First record of the transmission. Identifies the sender and receiver. Defines ANSI version.

ELEMENT	TITLE	FIELD SIZE	VALUE	REQ'D	
ISA 01	Authorization Qualifier	X(2)	00	M	
ISA 02	Authorization Information	X(10)	Blanks	M	
ISA 03	Security Qualifier	X(2)	00	M	
ISA 04	Security Information	X(10)	Blanks	M	
ISA 05	Sender Interchange Qualifier	X(2)	12	M	
ISA 06	Sender Interchange ID	X(15)	'5034648740B '	M	
ISA 07	Receiver Interchange Qualifier	X(2)	01	M	Must be 01
ISA 08	Receiver Interchange ID	X(15)	'XXXXXXXXXXXXX '	M	Specific to ESS and same as GS03
ISA 09	Interchange Date	N(6)	020911 (yymmdd)	M	
ISA 10	Interchange Time	N(4)	1403 (hhmm)	M	
ISA 11	Standards Identifier	X(1)	U	M	
ISA 12	Interchange Version	X(5)	00400	M	
ISA 13	Interchange Control Number	N(9)	123456789	M	
ISA 14	Acknowledgement Requested	X(1)	0	M	
ISA 15	Test Indicator	X(1)	P	M	
ISA 16	Sub-element Separator	X(1)	>	M	

SEGMENT GS - Functional Group Header for INTERVAL METER DATA

FUNCTION: Begins a functional group. Provides control information.

ELEMENT	TITLE	FIELD SIZE	VALUE	REQ'D	
GS 01	Functional ID	X(2)	PT	M	
GS 02	Application's Sender's ID	X(2/12)	'5034648740B '	M	
GS 03	Application's Receiver's ID	X(2/12)	'XXXXXXXXXXXXX'	M	Specific to ESS and same as ISA06
GS 04	Interchange Date	N(9)	20020911 (yyyymmdd)	M	
GS 05	Interchange Time	N(4)	1403 (hhmm)	M	
GS 06	Data Interchange Control Number	N(1/9)	123456789	M	
GS 07	Responsible Agency Code	X(1)	X	M	
GS 08	Version Number	X(1/12)	004010	M	

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:

There is a separate transaction for each Point of Delivery ID.
Each PTD section represents a unique meter, Unit of Measure and interval combination.

Heading:

<u>Page No.</u>	<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>
8	010	ST	Transaction Set Header	M	1		
9	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
LOOP ID - N1						5	
10	080	N1	Name	O	1		
11	120	REF	Reference Identification	O	12		

Detail:

<u>Page No.</u>	<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	
12	010	PTD	Product Transfer and Resale Detail	M	1		
13	020	DTM	Date/Time Reference	O	10		
14	030	REF	Reference Identification	O	20		
LOOP ID - QTY						>1	
15	110	QTY	Quantity	O	1		
16	160	MEA	Measurements	O	40		
17	210	DTM	Date/Time Reference	O	10		

Summary:

<u>Page No.</u>	<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>
18	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:
Notes: Each 867 represents one Point of Delivery ID.

Data Element Summary

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

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: Intervals or readings can be sent in this report, however there is no allowance for Time-of-Use reporting.
 PGE will not be sending readings, but will send values for Billing Cycle length periods as intervals. (See BPT04 comment below and PTD REF segment page.).

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BPT01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 52 Response to Historical Inquiry 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	O AN 1/30
M	BPT03	373	Date Date expressed as CCYYMMDD Transaction creation date.	M DT 8/8
	BPT04	755	Report Type Code Code indicating the title or contents of a document, report or supporting item C1 Cost Data Summary Interval values. *NOTE* Includes Cumulative Interval values, which are signified in the PTD loop by a PTD REF CODE having REF01 = "MT" and the last 3 characters of the REF02 Code = "MON" (see PTD REF segment.). DD Distributor Inventory Report Cumulative reading values without time-of-use information.	O ID 2/2

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:

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		8S Consumer Service Provider (CSP)	
		SJ Service Provider	
		Identifies name and address information as pertaining to a service provider for which billing is being rendered	
		The Energy Service Supplier.	
N103	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		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	
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	
		41 Submitter	
		Entity transmitting transaction set	

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.
 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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
			12 Billing Account Account number under which billing is rendered Utility-assigned account number for the end use customer. PGE does not post all 17 digit account number but only customer number without leading zeros, premise number without leading zeros and no check digit. For example, the 17 digit customer account number of 00013542200019988 would look like 135422-1998.	
			LU Location Number Point of Delivery ID.	
	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

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:

Notes: The PTD loop conveys consumption information for one meter or register over a number of identical metering intervals. Accounts that have multiple meters or registers require multiple PTD loops. Changes in meter types within the same usage reporting period require separate PTD loops.

When the interval is monthly, minor differences in interval length are tolerated to handle non-regular read cycles.

Data Element Summary

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

Segment: **DTM** **Date/Time Reference**
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:

The actual service period start and end dates for the PTD Loop.
 The Service Period Start for the PTD Loop is the Service Period Start of the first iteration of the QTY Loop contained within the PTD loop.
 The Service Period End for the PTD Loop is the Service Period End of the last iteration of the QTY Loop contained within the PTD loop.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		150	Service Period Start	
		151	Service Period End	
	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
			Code indicating the date format, time format, or date and time format	
		DT	Date and Time Expressed in Format	
			CCYYMMDDHHMM	
	DTM06	1251	Date Time Period	X AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times	

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.
- 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: Two REFs are required, one for the Meter Number (MG) and one for the Meter Data Type (MT). The information in the MT will be used to qualify the quantity in QTY02 and the unit of measurement in MEA03, MEA05 and MEA06.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification MG Meter Number MT Meter Ticket Number Meter Data Type.	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01= MT, the meter type will be expressed as a five-character field: - The first two characters are the type of consumption (expressed in the units of measure from Data element 355). - The next three characters are the metering interval reported for billing purposes. nnn = number of minutes, from 001 to 999 OR MON = monthly (approximate) - for Billing Cycle length intervals. Actual length is specified using PDT DTM field.	X AN 1/30

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:

Data Element Summary

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

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: Required in first iteration of QTY loop or when change in Measurement Significance Code.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		AN Work	
		BO Meter Reading as Billed	
		Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	
		Unmetered.	
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		MU Multiplier	
MEA03	739	Measurement Value	X R 1/20
		The value of the measurement	
MEA07	935	Measurement Significance Code	O ID 2/2
		Code used to benchmark, qualify or further define a measurement value	
		22 Actual	
		46 Estimated	
		51 Total	
		Summed intervals - data quality can't be indicated.	
		68 As Is	

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:

The actual service period start and end dates.
 A Service Period Start And a Service Period End are required for the first iteration of the QTY loop.
 A Service Period End is required for each subsequent iteration of the QTY loop.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		150	Service Period Start	
		151	Service Period End	
	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
			Code indicating the date format, time format, or date and time format	
		DT	Date and Time Expressed in Format CCYYMMDDHHMM	
	DTM06	1251	Date Time Period	X AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times	

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.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	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