

Electronic Data Exchange Standards for Energy Deregulation in New York

867 Historical Interval Usage Data Dictionary

October 31, 2017
Version 1.1

	Summary of Changes
March 31, 2017	Initial Release
October 31, 2017	Version 1.1
	<ul style="list-style-type: none">• Inclusion of changes to address errata since filing of Version 1.0 including re-ordering of segments and corresponding changes to Table of Contents.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
1	Transaction Set Header	None	ST	HDR	010	01	Transaction Set Identifier Code	Indicates Type of transaction	867	ID(3/3)	Required	
2	Transaction Set Header	None	ST	HDR	010	02	Transaction Set Control Number	Number generated by senders system	ID#	AN(4/9)	Required	Identifying control number that must be unique within the transaction set functional group. This number is assigned by the originator of the transaction.
3	Beginning Segment	None	BPT	HDR	020	01	Transaction Set Purpose Code	Purpose of transaction	52	ID(2/2)	Required	Code indicating that this 867 transaction is a Response to Historical Inquiry.
4	Beginning Segment	None	BPT	HDR	020	02	Reference Identification	Unique and permanent ID for this individual transaction	ID#	AN(1/30)	Required	This number is assigned by the originator of the transaction and must be unique over time. This identifier assists in tracking subsequent activity regarding an individual transaction.
5	Beginning Segment	None	BPT	HDR	020	03	Date	Date transaction was created in senders system	CCYYMMDD	DT(8/8)	Required	
6	Beginning Segment	None	BPT	HDR	020	04	Report Type Code	Code Used to Identify the Report Type for the 867 Response	C1= Indicates transaction is an Interval Data transaction. DR= Indicates transaction contains some combination of Interval, Monthly, and/or Unmetered Data.	ID(2/2)	Required	This segment is required to differentiate between types of historic usage being provided.
7	Name (ESCO)	NI Loop	N1	HDR	080	01	Entity Identifier Code	Code identifying the ESCO in this transaction	SJ	ID(2/3)	Required	
8	Name (ESCO)	NI Loop	N1	HDR	080	02	Name	literal name of the ESCO	free form text	AN(1/60)	Optional	ESCO name is not necessary but may be provided by mutual agreement of the trading partners.
9	Name (ESCO)	NI Loop	N1	HDR	080	03	Identification Code Qualifier	Indicates type of ID number that will be sent in the N104 element of this segment	1=DUNS # 9=DUNS#+4 24=Federal Tax ID	ID(1/2)	Required	
10	Name (ESCO)	NI Loop	N1	HDR	080	04	Identification Code	ID number for ESCO	ID#	AN(2/80)	Required	
11	Name (Utility)	NI Loop	N1	HDR	080	01	Entity Identifier Code	Code identifying the Utility in this transaction	8S	ID(2/3)	Required	
12	Name (Utility)	NI Loop	N1	HDR	080	02	Name	Literal name of the Utility in this transaction	free form text	AN(1/60)	Optional	Utility name is not necessary but may be provided by mutual agreement of the trading partners.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
13	Name (Utility)	NI Loop	N1	HDR	080	03	Identification Code Qualifier	Indicates type of ID number that will be sent in the N104 element of this segment	1=DUNS # 9=DUNS#+4 24=Federal Tax ID	ID(1/2)	Required	
14	Name (Utility)	NI Loop	N1	HDR	080	04	Identification Code	ID number for Utility	ID#	AN(2/80)	Required	
15	Name (Customer)	NI Loop	N1	HDR	080	01	Entity Identifier Code	Code identifying the customer in this transaction	8R	ID(2/3)	Required	An 867 transaction sent in response to a request for historic usage must contain an N4 segment for transmitting data about the customer's current tax district. When an N4 segment is being sent, an N1 segment is required to comply with X12 requirements. However, the N102 element in the N1 segment may contain either the customer's name or the literal "NAME".
16	Name (Customer)	NI Loop	N1	HDR	080	02	Name	Literal name of the customer in this transaction	Text or the literal "NAME"	AN(1/60)	Required	This element is required to comply with X12 requirements but the format is at the discretion of the Utility.
17	Address Information (Service Address)	N1 Loop	N3	HDR	100	01	Name	Customer Service Address - Street		AN 1/55	Optional	Service Address information associated with the account for which historic usage has been requested may be sent in the 867 response at the option of the Utility.
18	Address Information (Service Address)	N1 Loop	N3	HDR	100	02	Name	If N301 exceeds 55 characters, the overflow is sent in N302		AN 1/55	Optional	
19	Geographic Location (Service Address)	N1 Loop	N4	HDR	110	01	City Name	Customer Service Address - City		AN 2/30	Optional	
20	Geographic Location (Service Address)	N1 Loop	N4	HDR	110	02	State or Province Code	Customer Service Address - State		ID 2/2	Optional	
21	Geographic Location (Service Address)	N1 Loop	N4	HDR	110	03	Postal Code	Customer Service Address - Postal Code		ID 3/15	Optional	
22	Geographic Location (Service Address)	NI Loop	N4	HDR	110	05	Location Qualifier	Code indicating that element N406 contains a code or text pertaining to the customer's current tax district.	TX	X ID 1/2	Optional	Element N406 contains a code or indicating the current, rather than historic, tax district applicable to the account for which consumption history has been requested.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
23	Geographic Location (Service Address)	NI Loop	N4	HDR	110	06	Location Identifier	An alphanumeric code or text indicating the municipality in which the customer resides.	code or text	AN 1/30	Conditional	Required when N405 is sent. The structure of this element may vary by Utility but the data sent must be sufficient to enable the recipient to identify the correct taxing district for the customer.
24	Reference Identification (Utility Account Number)	NI Loop	REF	HDR	120	01	Reference Identification Qualifier	Code indicating that the REF02 element contains the Utility assigned account number for the customer	12	ID(2/3)	Required	
25	Reference Identification (Utility Account Number)	NI Loop	REF	HDR	120	02	Reference Identification	Customer's account number	Account #	AN(1/30)	Required	
26	Reference Identification (Previous Utility Account Number)	NI Loop	REF	HDR	120	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility's previous account number for the customer	45	ID(2/3)	Conditional	Required when the customer's account number has changed in the last 90 days.
27	Reference Identification (Previous Utility Account Number)	NI Loop	REF	HDR	120	02	Reference Identification	Customer's old account number	Account #	AN(1/30)	Required	When a REF*45 is sent, this element is required.
28	Reference Identification (ISO Location Based Marginal Pricing Zone)	NI Loop	REF	HDR	120	01	Reference Identification Qualifier	Code indicating that REF02 contains the ISO Assigned code for New York Location Based Pricing Zones when service type is EL	SPL	ID(2/3)	Optional	Optional - where supported by a utility for Electric accounts as detailed in its Utility Maintained EDI Guide. May be used if available in the utility's system and if utility's service territory is located within more than one Location Based Pricing Zone in New York.
29	Reference Identification (ISO Location Based Marginal Pricing Zone)	NI Loop	REF	HDR	120	02	Reference Identification	ISO Location Based Marginal Pricing Zone	See IG for list of possible values.	AN(1/30)	Required	When a REF*SPL is sent, this element is required.
30	Reference Identification (Gas Pool ID)	NI Loop	REF	HDR	120	01	Reference Identification Qualifier	Code indicating that REF02 contains the Gas Pool ID	VI	ID(2/3)	Optional	Optional - where supported by a utility for Gas accounts as detailed in its Utility Maintained EDI Guide. If requested by an ESCO not currently supplying the customer, the utility may send a gas supply area designation. If requested by an ESCO currently supplying the customer, the utility may send the Gas Pool ID to which the customer is assigned or a gas supply area designation.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
31	Reference Identification (Gas Pool ID)	NI Loop	REF	HDR	120	02	Reference Identification	Gas Pool ID	Gas Pool ID	AN(1/30)	Required	When a REF*VI is sent, this element is required.
32	Product Transfer and Resale Detail (Metered Summary)	PTD Loop	PTD	DTL	010	01	Product Transfer Type Code	Code indicating that this PTD loop contains summarized metered consumption history data for the metered service delivery points on the account requested.	BO	ID 2/2	Conditional	The structure of the 867 response transaction will identify the type of data being sent by the placement of the data in the correct PTD loop. In this 867 transaction standard there are six PTD loops. This PTD loop (PTD*BO) is sent when metered consumption data for the account requested is summarized. When the service delivery points on an account have different rate classes or load shapes it will be necessary to send more than one PTD*BO loop. When consumption history data is metered but the data is being reported by individual meter, then the PTD*BQ loop (Metered Detail) should be used instead of this segment. When a specific PTD loop is sent it must contain all of the required segments and elements for that loop.
33	Product Transfer and Resale Detail (Metered Summary)	PTD Loop	PTD	DTL	010	04	Reference Identification Qualifier	Indicates that the code sent in PTD05 will identify the commodity being reported in this PTD loop.	OZ	ID 2/3	Required	When PTD*BO is sent this element is required.
34	Product Transfer and Resale Detail (Metered Summary)	PTD Loop	PTD	DTL	010	05	Reference Identification	Code indicating commodity type	EL or GAS	AN(1/30)	Required	When PTD*BO is sent this element is required.
35	Reference Identification (Utility Rate Service Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility Rate Service Class associated with the metered summary data contained in this PTD loop for the account requested.	NH	ID(2/3)	Required	When a REF*NH is sent, this element is required.
36	Reference Identification (Utility Rate Service Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility rate code as found in the tariff associated with the consumption history contained in this PTD loop.		AN(1/30)	Required	

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
37	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the utility rate subclass associated with the metered consumption data contained in this PTD loop for the account requested.	PR	ID(2/3)	Conditional	This segment must be sent if a rate subclass is applicable to the service delivery points summarized in this PTD loop.
38	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating the sub class associated with the REF*NH segment for the metered consumption data in this PTD loop for the account and commodity requested.		AN(1/30)	Conditional	When a REF*PR is sent, this element is required.
39	Reference Identification (Load Profile)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains a load profile code associated with the metered consumption data sent in this PTD loop.	LO	ID(2/3)	Conditional	Load profile codes must be sent when the service is Electric. If more than one load profile code is associated with the metered consumption history on an account, it will be necessary to send multiple PTD*BO loops.
40	Reference Identification (Load Profile)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility assigned load profile code for the account associated with the metered consumption sent in this PTD loop.		AN(1/30)	Conditional	Some Utilities will post load profile information on their web site for look up by eligible ESCOs.
41	Quantity	QTY Loop	QTY	DTL	110	01	Quantity Qualifier	Code indicating that A02 contains the number of metered service delivery points associated with the data summarized in this QTY loop for the period indicated for the account and commodity requested.	FL	ID(2/2)	Required	Each PTD*BO loop will contain multiple QTY loops since the default response to a request is up to 24 months of historic usage. For electric accounts a separate QTY loop is necessary for each time of day interval being reported within a measurement period (e.g. on-peak, off-peak). If there is more than one unit of measure (for example, demand and kilowatt hours) being reported each unit must be reported in a separate QTY loop for each measurement period. Refer to the examples at the back of the 867HIU Implementation Guide for illustrations.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
42	Quantity	QTY Loop	QTY	DTL	110	02	Quantity	Indicate the number of service points associated with the metered consumption data in this QTY loop within this PTD loop for each period being reported.	x	R 1/15	Required	
43	Measurements	QTY Loop	MEA	DTL	160	01	Measurement Reference ID Code	Code indicating whether the data in this QTY loop is actual, estimated, billed consumption, or calculated data.	AN=Actual BR=Billed EN=Estimated CQ=Calculated Quantity	ID2/2	Required	See 867HIU Implementation Guide for definitions.
44	Measurements	QTY Loop	MEA	DTL	160	02	Measurement Qualifier	Code indicating the data in this segment is consumption.	PRQ	ID 1/3	Required	
45	Measurements	QTY Loop	MEA	DTL	160	03	Measurement Value	Quantity of consumption for the type indicated in MEA04 for the period indicated in MEA07 for this QTY loop for the account and commodity requested.		R 1/20	Required	*00's are valid values.
46	Measurements	QTY Loop	MEA	DTL	160	04	Unit or Basis for Measurement Code	Codes used to indicate the type of measurement associated with the quantity sent in element MEA03.	HH,K1,K2,K3,K4, K5,K7,KH,TD,TZ	ID(2/2)	Required	
47	Measurements	QTY Loop	MEA	DTL	160	07	Measurement Significance Code	Codes indicating the period (in a day) when the quantity indicated in MEA03 was consumed.	41, 42, 43, 45, 49,50, 51, 57, 58,73,74,75, 84,85,86,87, 88,89,90,91, 92,93,94	ID(2/2)	Conditional	This segment is sent when the service indicated in PTD05 is Electric. Refer to the 867HIU Implementation Guide for code definitions.
48	Date/Time Reference (Period Start Date)	QTY Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 contains the measurement period start date associated with the quantity sent in the MEA03 element in this QTY loop.	150	ID(3/3)	Required	
49	Date/Time Reference (Period Start Date)	QTY Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
50	Date/Time Reference (Period End Date)	QTY Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 contains the measurement period end date associated with the quantity sent in the MEA03 element in this QTY loop.	151	ID(3/3)	Required	
51	Date/Time Reference (Period End Date)	QTY Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	
52	Product Transfer and Resale Detail (Unmetered Usage)	PTD Loop	PTD	DTL	010	01	Product Transfer Type Code	Code indicating that this PTD loop contains unmetered consumption history data.	BC	ID 2/2	Conditional	The PTD*BC segment is used to transmit unmetered consumption history data for the account and commodity requested. All unmetered usage of the same service class, subclass and load shape should be summarized in the same PTD loop. When, for example, street lights and outdoor signage on an account have separate load shapes it would be necessary to send two PTD*BC loops. When the history data does not contain any unmetered usage data the PTD*BC segment is not sent.
53	Product Transfer and Resale Detail (Unmetered Usage)	PTD Loop	PTD	DTL	010	04	Reference Identification Qualifier	Indicates that PTD05 identifies the commodity reported in this loop.	OZ	ID 2/3	Required	When PTD*BC is sent this element is required.
54	Product Transfer and Resale Detail (Unmetered Usage)	PTD Loop	PTD	DTL	010	05	Reference Identification	Code indicating commodity type	EL or GAS	AN(1/30)	Required	When PTD*BC is sent this element is required.
55	Reference Identification (Utility Rate Service Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility service class associated with the unmetered consumption data contained in this PTD loop for the account requested.	NH	ID(2/3)	Required	When PTD*BC is sent this element is required.
56	Reference Identification (Utility Rate Service Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility rate code as found in the tariff associated with the unmetered consumption history contained in this PTD loop.		AN(1/30)	Required	When a REF*NH is sent, this element is required.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
57	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the utility rate subclass associated with the unmetered consumption data contained in this PTD loop for the account requested.	PR	ID(2/3)	Conditional	This segment must be sent if a rate subclass is applicable to the service delivery points summarized in this PTD loop.
58	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating the sub class associated with the REF NH segment for the unmetered consumption data in this PTD loop for the account and commodity requested.		AN(1/30)	Conditional	When a REF*PR is sent, this element is required.
59	Reference Identification (Load Profile)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the load profile code associated with the unmetered consumption data sent in this PTD loop.	LO	ID(2/3)	Required	Load profile codes must be sent when the service is Electric. If more than one load profile code is associated with the unmetered consumption history on an account, it will be necessary to send multiple PTD*BC loops.
60	Reference Identification (Load Profile)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility assigned load profile code for the unmetered consumption sent in this PTD loop.		AN(1/30)	Required	Some Utilities will post load profile information on their web site for look up by eligible ESCOs.
61	Quantity	QTY Loop	QTY	DTL	110	01	Quantity Qualifier	Code indicating that QTY02 contains the number of unmetered service delivery points associated with the data summarized in this QTY loop for the period indicated for the account and commodity requested.	FL	ID(2/2)	Required	
62	Quantity	QTY Loop	QTY	DTL	110	02	Quantity	Indicate the number of service points associated with the unmetered consumption data in this QTY loop within this PTD loop for each period being reported.	x	R 1/15	Required	

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
63	Measurements	QTY Loop	MEA	DTL	160	01	Measurement Reference ID Code	Code indicating whether the data in this QTY loop is actual, estimated, billed consumption, or calculated data.	AN=Actual BR=Billed EN=Estimated CQ=Calculated Quantity	ID2/2	Required	
64	Measurements	QTY Loop	MEA	DTL	160	02	Measurement Qualifier	Code indicating the data in this segment is consumption.	PRQ	ID 1/3	Required	
65	Measurements	QTY Loop	MEA	DTL	160	03	Measurement Value	Quantity of consumption for the type indicated in MEA04 for the period indicated in MEA07 for this QTY loop for the account and commodity requested.		R 1/20	Required	
66	Measurements	QTY Loop	MEA	DTL	160	04	Unit or Basis for Measurement Code	Codes used to indicate the type of measurement associated with the quantity sent in element MEA03.	HH,K1,K2,K3,K4, K5,K7,KH,TD,TZ	ID(2/2)	Required	
67	Date/Time Reference (Period Start Date)	QTY Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 contains the measurement period start date associated with the quantity sent in the MEA03 element in this QTY loop.	150	ID(3/3)	Required	
68	Date/Time Reference (Period Start Date)	QTY Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	
69	Date/Time Reference (Period End Date)	QTY Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 contains the measurement period end date associated with the quantity sent in the MEA03 element in this QTY loop.	151	ID(3/3)	Required	
70	Date/Time Reference (Period End Date)	QTY Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
71	Product Transfer and Resale Detail (Metered Consumption Detail)	PTD Loop	PTD	DTL	010	01	Product Transfer Type Code	Code indicating that this PTD loop contains consumption history data by individual metered service point for the account and commodity requested.	BQ	ID 2/2	Conditional	The PTD*BQ loop is used to report metered consumption history data for the account and commodity specified in the request for an individual metered service point. When history data is recorded by individual meter, this PTD loop should be sent.
72	Product Transfer and Resale Detail (Metered Consumption Detail)	PTD Loop	PTD	DTL	010	04	Reference Identification Qualifier	Indicates that PTD05 identifies the commodity reported in this loop.	OZ	ID 2/3	Required	When PTD*BQ is being sent, this element is required.
73	Product Transfer and Resale Detail (Metered Consumption Detail)	PTD Loop	PTD	DTL	010	05	Reference Identification	Code indicating commodity type	EL or GAS	AN(1/30)	Required	When PTD*BQ is being sent, this element is required.
74	Reference Identification (Meter Number)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility assigned meter number for the service end point being reported in this PTD loop.	MG	ID 2/3	Required	When PTD*BQ is being sent, this element is required.
75	Reference Identification (Meter Number)	PTD Loop	REF	DTL	030	02	Reference Identification		Meter #	AN(1/30)	Required	When PTD*BQ is being sent, this element is required.
76	Reference Identification (Utility Rate Service Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility service class associated with the metered consumption data contained in this PTD loop for the account requested.	NH	ID(2/3)	Required	
77	Reference Identification (Utility Rate Service Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility rate code as found in the tariff associated with the metered consumption history contained in this PTD loop.		AN(1/30)	Required	
78	Reference Identification (Rate Sub Class)	PTD Lop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the utility rate subclass associated with the metered consumption data contained in this PTD loop for the account requested.	PR	ID(2/3)	Conditional	This segment must be sent if a rate subclass is applicable to the service delivery points summarized in this PTD loop.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
79	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating the sub class associated with the REF*NH segment for the metered consumption data in this PTD loop for the account and commodity requested.		AN(1/30)	Conditional	
80	Reference Identification (Load Profile)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the load profile code associated with the metered consumption data sent in this PTD loop.	LO	ID(2/3)	Conditional	Load Profile codes must be sent when the service is Electric.
81	Reference Identification (Load Profile)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility assigned load profile code for the account, and rate class (and sub class) associated with the metered consumption sent in this PTD loop.		AN(1/30)	Conditional	
82	Quantity	QTY Loop	QTY	DTL	110	01	Quantity Qualifier	Code indicating that QTY02 contains the number of metered service points contained in this PTD loop for the account and commodity requested.	FL	ID(2/2)	Required	
83	Quantity	QTY Loop	QTY	DTL	110	02	Quantity	Indicate the number of service points associated with the consumption data in this QTY loop for each period being reported.	x	R 1/15	Required	For the PTD*BQ loop, this element is always "1".
84	Measurements	QTY Loop	MEA	DTL	160	01	Measurement Reference ID Code	Code indicating whether the data in this QTY loop is actual, estimated, billed consumption, or calculated data.	AN=Actual BR=Billed EN=Estimated CQ=Calculated Quantity	ID2/2	Required	
85	Measurements	QTY Loop	MEA	DTL	160	02	Measurement Qualifier	Code indicating the data in this segment is consumption.	PRQ	ID 1/3	Required	

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
86	Measurements	QTY Loop	MEA	DTL	160	03	Measurement Value	Quantity of consumption for the type indicated in MEA04 for the period indicated in MEA07 for this QTY loop for the account and commodity requested.		R 1/20	Required	
87	Measurements	QTY Loop	MEA	DTL	160	04	Unit or Basis for Measurement Code	Codes used to indicate the type of measurement associated with the quantity sent in MEA03.	HH,K1,K2,K3,K4, K5,K7,KH,TD,TZ	ID(2/2)	Required	
88	Measurements	QTY Loop	MEA	DTL	160	07	Measurement Significance Code	Codes indicating the period (in a day) when the quantity indicated in MEA03 was consumed.	41, 42, 43, 45, 49,50, 51, 57, 58,73,74,75, 84,85,86,87, 88,89,90,91, 92,93,94	ID(2/2)	Conditional	This segment is sent when the service indicated in PTD05 is Electric. Refer to the 867HIU Implementation Guide for code definitions.
89	Date/Time Reference (Period Start Date)	QTY Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 contains the measurement period start date associated with the quantity sent in the MEA03 element in this QTY loop.	150	ID(3/3)	Required	
90	Date/Time Reference (Period Start Date)	QTY Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	
91	Date/Time Reference (Period End Date)	QTY Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 contains the measurement period end date associated with the quantity sent in the MEA03 element in this QTY loop.	151	ID(3/3)	Required	
92	Date/Time Reference (Period End Date)	QTY Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	
93	Product Transfer and Resale Detail (Metered Consumption Detail)	PTD Loop	PTD	DTL	010	01	Product Transfer Type Code	Code indicating that this PTD loop contains additional information for the account and commodity requested.	FG	ID 2/2	Required	The PTD*FG loop is used to report additional information for the account and commodity specified in the request and should be sent when this info is available to the utility. This PTD loop should be sent in addition to the HIU data and when no HIU data is available from the utility.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
94	Product Transfer and Resale Detail (Metered Consumption Detail)	PTD Loop	PTD	DTL	010	04	Reference Identification Qualifier	Indicates that PTD05 identifies the commodity reported in this loop.	OZ	ID 2/3	Required	When PTD*FG is being sent, this element is required.
95	Product Transfer and Resale Detail (Metered Consumption Detail)	PTD Loop	PTD	DTL	010	05	Reference Identification	Code indicating commodity type	EL or GAS	AN(1/30)	Required	When PTD*FG is being sent, this element is required.
96	Reference Identification (Customer Supply Status)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Customer Supply Status for the account being reported in this PTD loop.	0N	ID 2/3	Conditional	When PTD*FG is being sent, this element is required.
97	Reference Identification (Customer Supply Status)	PTD Loop	REF	DTL	030	02	Reference Identification	Customer Supply Status Indicator	E=Customer receiving supply from ESCO U=Customer receiving supply from Utility	AN(1/30)	Required	When REF*0N is being sent, this element is required.
98	Reference Identification (Industrial Classification Code)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Industrial Classification Code for the account being reported in this PTD loop.	IJ	ID(2/3)	Conditional	When PTD*FG is being sent, this element is required if available in the utility's system.
99	Reference Identification (Industrial Classification Code)	PTD Loop	REF	DTL	030	02	Reference Identification	Industrial Classification Code for the account being reported in this PTD loop.		AN(1/30)	Required	When REF*IJ is being sent, this element is required.
100	Reference Identification (Industrial Classification Code)	PTD Loop	REF	DTL	030	03	Description	Code indicating whether REF02 contains the SIC or the NAICS Code.	NAICS=REF02 contains NAICS Code SIC=REF02 contains SIC Code	AN(1/80)	Required	When REF*IJ is being sent, this element is required.
101	Reference Identification (Utility Tax Exempt Status)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility Tax Exempt Status for the account requested.	TX	ID(2/3)	Conditional	When PTD*FG is being sent, this element is required.
103	Reference Identification (Enrollment Block)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Enrollment Block Indicator for the account requested.	ZV	ID(2/3)	Conditional	When PTD*FG is being sent, this element is required when there is an enrollment block on the account.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
104	Reference Identification (Enrollment Block)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating that there is an Enrollment Block on the account requested.	EB=Enrollment Block	AN(1/30)	Required	When REF*ZV is being sent, this element is required.
105	Reference Identification (Account Settlement Indicator)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Account Settlement Indicator for the account requested.	TDT	ID(2/3)	Conditional	When PTD*FG is being sent, this element is required when the service being requested is Electric.
106	Reference Identification (Account Settlement Indicator)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating how the usage is settled with NYISO for the account requested.	C=Class Load Shape H=Hourly M=Mixed	AN(1/30)	Required	When REF*TDT is being sent, this element is required.
107	Reference Identification (NYPA Discount Indicator)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the NYPA Discount Indicator for the account requested.	YP	ID(2/3)	Conditional	When PTD*FG is being sent, this element is required when the service being requested is Electric and the information is available in the utility's system.
108	Reference Identification (NYPA Discount Indicator)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating whether the account requested participates in the NYPA Discount Program.	N=No, the customer does not participate in the program Y=Yes, the customer does participate in the program	AN(1/30)	Required	When REF*YP is being sent, this element is required.
109	Reference Identification (Utility Discount Indicator)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility Discount Indicator for the account requested.	SG	ID(2/3)	Conditional	When PTD*FG is being sent, this element is required when the service being requested is Electric and the information is available in the utility's system.
110	Reference Identification (Utility Discount Indicator)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating whether the account requested receives a Discount or Incentive Rate from the Utility.	N=No, there are no Utility Discounts/Incentive Rates Y=Yes, there are Utility Discounts/Incentive Rates program	AN(1/30)	Required	When REF*SG is being sent, this element is required.
111	Reference Identification (Bill Cycle Code)	PTD Loop	REF	DTL	30	1	Reference Identification Qualifier	Code indicating that the data contained in REF02/03 describes the bill cycle for the customer being enrolled	BF	ID(2/3)	Conditional	This segment must be provided if the information is not available on the Utility's website on a pre-enrollment basis or at the Utility's option as noted in the Utility Maintained EDI Guide.
112	Reference Identification (Bill Cycle Code)	PTD Loop	REF	DTL	30	2	Reference Identification	Number indicating billing cycle.	Cycle Code	AN(1/30)	Required	When a REF*BF is sent, this element is required.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
113	Reference Identification (Bill Cycle Code)	PTD Loop	REF	DTL	30	3	Description	Text indicating how frequently the customer is billed.	MON, BIM, QTR	AN(1/80)	Conditional	When a REF*BF is sent, this element may be sent if the data in REF02 is not sufficiently descriptive.
114	Quantity (ICAP)	QTY Loop	QTY	DTL	110	01	Quantity Qualifier	Code indicating that the data in QTY02 represents the ICAP Tag.	KZ	ID 2/2	Conditional	This segment is required when the service being requested is Electric and the information is available in the utility's system. Multiple QTY*KZ loops may be provided when future ICAP Tags have been calculated.
115	Quantity (ICAP)	QTY Loop	QTY	DTL	110	02	Quantity	ICAP Tag value		R 1/15	Required	When QTY*KZ is sent this element is required.
116	Quantity (ICAP)	QTY Loop	QTY	DTL	110	03	Unit or Basis for Measurement Code	Identifies the unit of measurement associated with the data sent in QTY02.	K1=Kilowatt Demand AJ= Adjusted Kilowatt Demand	ID 2/2	Required	When QTY*KZ is sent this element is required. AJ indicates there is a Special Program Adjustment Indicator related to the ICAP Tag. For example, a NYPA adjustment has been applied.
117	Date/Time Reference (ICAP Effective Dates)	PTD Loop	DTM	DTL	020	01	Date/Time Qualifier	Code indicating that this DTM segment identifies the effective dates associated with the ICAP data provided.	007	ID 3/3	Optional	The Utility may provide an effective date range for the ICAP Tag data.
118	Date/Time Reference (ICAP Effective Dates)	PTD Loop	DTM	DTL	020	05	Date Time Period Format Qualifier	Code indicating that the value sent element 06 in this segment will be a range of Dates Expressed in Format CCYYMMDD-CCYYMMDD.	RD8	ID 2/3	Required	When a DTM*007 is being sent, this element is required.
119	Date/Time Reference (ICAP Effective Dates)	PTD Loop	DTM	DTL	020	06	Date Time Period	Period expressed in the format CCYYMMDD-CCYYMMDD		AN 1/35	Required	When a DTM*007 is being sent, this element is required.
120	Quantity (Number of Meters)	QTY Loop	QTY	DTL	110	01	Quantity Qualifier	Code indicating that the data in QTY02 represents the Number of Meters of the account	9N	ID 2/2	Conditional	The QTY*9N loop is not required when consumption is being reported on an account basis or when a gas profile is being provided.
121	Quantity (Number of Meters)	QTY Loop	QTY	DTL	110	02	Quantity	Number of Meters	x	R 1/15	Required	When QTY*9N is sent this element is required.
122	Reference Identification (Meter Number)	QTY Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility assigned meter number for the service point being reported in this PTD loop.	MG	ID 2/3	Required	When QTY*9N is being sent, this element is required.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
123	Reference Identification (Meter Number)	QTY Loop	REF	DTL	030	02	Reference Identification	Utility assigned Meter Number or "UNMETERED" for unmetered service points.	Meter #	AN(1/30)	Required	When REF*MG is being sent, this element is required.
124	Product Transfer and Resale Detail (Interval Usage Summary – Account Level)	PTD Loop	PTD	DTL	010	01	Product Transfer Type Code	Code indicating that this PTD loop contains interval consumption data by the account level on the account for the commodity being reported.	IA	ID(2/2)	Conditional	Provided when interval consumption is being requested at the account level. This PTD segment is for summarized metered consumption.
125	Product Transfer and Resale Detail (Interval Usage Summary – Account Level)	PTD Loop	PTD	DTL	010	04	Reference Identification Qualifier	Indicates that PTD05 identifies the commodity reported in this loop.	OZ	ID(2/3)	Required	
126	Product Transfer and Resale Detail (Interval Usage Summary – Account Level)	PTD Loop	PTD	DTL	010	05	Reference Identification	Code indicating commodity type	EL or GAS	AN(1/30)	Required	
127	Date/Time Reference (Period Start Date)	PTD Loop	DTM	DTL	020	01	Date/Time Qualifier	Code indicating that DTM02 contains the start date for the usage period being reported in this PTD loop.	150	ID(3/3)	Required	
128	Date/Time Reference (Period Start Date)	PTD Loop	DTM	DTL	020	02	Date		CCYYMMDD	DT(8/8)	Required	
129	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	020	01	Date/Time Qualifier	Code indicating that DTM02 contains the end date for the usage period being reported in this PTD loop.	151	ID(3/3)	Required	
130	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	020	02	Date		CCYYMMDD	DT(8/8)	Required	

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
131	Reference Identification (Rate Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility service class associated with the metered usage data contained in this PTD loop for the account being reported.	NH	ID(2/3)	Required	The rate class associated with the meter or service end point being reported is required.
132	Reference Identification (Rate Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility rate code as found in the tariff associated with the metered usage data contained in this PTD loop.		AN(1/30)	Required	When a REF*NH segment is sent, this element is required.
133	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the utility rate subclass associated with the metered usage data contained in this PTD loop for the account being reported.	PR	ID(2/3)	Conditional	Used when further clarification of a rate is provided.
134	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating the sub class associated with the REF NH segment for the metered usage data in this PTD loop for the account and commodity being reported.		AN(1/30)	Required	When a REF*PR segment is sent, this element is required.
135	Reference Identification (Interval Reading Period)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility Interval Reading Period for the service end point being reported in this PTD loop.	MT	ID(2/3)	Conditional	Used to provide clarification of interval meter data reading period.
136	Reference Identification (Interval Reading Period)	PTD Loop	REF	DTL	030	02	Reference Identification	The type and reporting interval for consumption measurements are described in a five-character field. The first two characters are used to describe the type of consumption. The last three characters describe the reporting interval.	Interval Reading Period	AN(1/30)	Required	When REF*MT is sent, the 02 element is required.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
137	Quantity	QTY Loop	QTY	DTL	110	01	Quantity Qualifier	Code indicating whether the consumption in this PTD loop is actual, estimated or billed consumption.	QD=Period Actual KA=Period Estimated 20=Missing Read	ID(2/2)	Required	When a PTD*IA loop is being sent, A QTY segment is required. This element indicates the character of the value being provided in QTY02.
138	Quantity	QTY Loop	QTY	DTL	110	02	Quantity	Quantity of recorded usage for the type indicated in QTY03 for the period indicated in DTM*582 for this PTD loop for the account and commodity being reported.		R(1/15)	Required	Data elements whose X12 attribute type is 'R' are treated as real numbers. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; therefore a decimal point must be sent when decimal precision is required. Note that in transmitting real numbers it is acceptable, but not necessary, to transmit digits that have no significance i.e. leading or trailing zeros.
139	Quantity	QTY Loop	QTY	DTL	110	03	Unit or Basis for Measurement Code	Use these codes to describe the measurement units associated with the quantity sent in MEA03.	HH or KH	ID(2/2)	Required	
140	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 and DTM03 contain the end date and time for the usage period being reported in this PTD loop.	582	ID(3/3)	Required	
141	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	
142	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	03	Time		HHMM	TM(4/8)	Required	
143	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	04	Time Code	Time Zone for the period being reported in DTM02 and DTM03.	ED – Eastern Daylight Time ES – Eastern Standard Time	ID(2/2)	Optional	
144	Product Transfer and Resale Detail (Interval Meter Detail)	PTD Loop	PTD	DTL	010	01	Product Transfer Type Code	Code indicating that this PTD loop contains metered usage data by each individual metered service point on the account for the commodity being reported.	PM	ID(2/2)	Conditional	This PTD loop is used to report interval meter data by meter. Unless beginning and ending 'reads' are being used to describe unmetered consumption, that data should not be sent in this loop but in PTD*BC.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
145	Product Transfer and Resale Detail (Interval Meter Detail)	PTD Loop	PTD	DTL	010	04	Reference Identification Qualifier	Indicates that PTD05 identifies the commodity reported in this loop.	OZ	ID(2/3)	Required	
146	Product Transfer and Resale Detail (Interval Meter Detail)	PTD Loop	PTD	DTL	010	05	Reference Identification	Code indicating commodity type	EL or GAS	AN(1/30)	Required	
147	Date/Time Reference (Period Start Date)	PTD Loop	DTM	DTL	020	01	Date/Time Qualifier	Code indicating that DTM02 contains the start date for the usage period being reported in this PTD loop.	150	ID(3/3)	Required	
148	Date/Time Reference (Period Start Date)	PTD Loop	DTM	DTL	020	02	Date		CCYYMMDD	DT(8/8)	Required	
149	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	020	01	Date/Time Qualifier	Code indicating that DTM02 contains the end date for the usage period being reported in this PTD loop.	151	ID(3/3)	Required	
150	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	020	02	Date		CCYYMMDD	DT(8/8)	Required	
151	Reference Identification (Meter Number)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility assigned meter number for the service end point being reported in this PTD loop.	MG	ID(2/3)	Conditional	A meter number OR a service point id number must be provided for each measurement point being reported in this PTD loop.
152	Reference Identification (Meter Number)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility assigned meter number	Meter #	AN(1/30)	Required	When REF*MG is sent, the 02 element is required.
153	Reference Identification (Rate Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility service class associated with the metered usage data contained in this PTD loop for the account being reported.	NH	ID(2/3)	Required	The rate class associated with the meter or service end point being reported is required.
154	Reference Identification (Rate Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Utility rate code as found in the tariff associated with the metered usage data contained in this PTD loop.		AN(1/30)	Required	When a REF*NH segment is sent, this element is required.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
155	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the utility rate subclass associated with the metered usage data contained in this PTD loop for the account being reported.	PR	ID(2/3)	Conditional	Used when further clarification of a rate is provided.
156	Reference Identification (Rate Sub Class)	PTD Loop	REF	DTL	030	02	Reference Identification	Code indicating the sub class associated with the REF NH segment for the metered usage data in this PTD loop for the account and commodity being reported.		AN(1/30)	Required	When a REF*PR segment is sent, this element is required.
157	Reference Identification (Interval Reading Period)	PTD Loop	REF	DTL	030	01	Reference Identification Qualifier	Code indicating that REF02 contains the Utility Interval Reading Period for the service end point being reported in this PTD loop.	MT	ID(2/3)	Conditional	Used to provide clarification of interval meter data reading period.
158	Reference Identification (Interval Reading Period)	PTD Loop	REF	DTL	030	02	Reference Identification	The type and reporting interval for consumption measurements are described in a five-character field. The first two characters are used to describe the type of consumption. The last three characters describe the reporting interval.	Interval Reading Period	AN(1/30)	Required	When REF*MT is sent, the 02 element is required.
159	Quantity	QTY Loop	QTY	DTL	110	01	Quantity Qualifier	Code indicating whether the consumption in this PTD loop is actual, estimated or billed consumption.	QD=Period Actual KA=Period Estimated 20=Missing Read	ID(2/2)	Required	When a PTD*PM loop is being sent, A QTY segment is required. This element indicates the character of the value being provided in QTY02.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Response	Comments
160	Quantity	QTY Loop	QTY	DTL	110	02	Quantity	Quantity of recorded usage for the type indicated in QTY03 for the period indicated in DTM*582 for this PTD loop for the account and commodity being reported.		R(1/15)	Required	Data elements whose X12 attribute type is 'R' are treated as real numbers. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; therefore a decimal point must be sent when decimal precision is required. Note that in transmitting real numbers it is acceptable, but not necessary, to transmit digits that have no significance i.e. leading or trailing zeros.
161	Quantity	QTY Loop	QTY	DTL	110	03	Unit or Basis for Measurement Code	Use these codes to describe the measurement units associated with the quantity sent in MEA03.	HH or KH	ID(2/2)	Required	
162	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	01	Date/Time Qualifier	Code indicating that DTM02 and DTM03 contain the end date and time for the usage period being reported in this PTD loop.	582	ID(3/3)	Required	
163	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	02	Date		CCYYMMDD	DT(8/8)	Required	
164	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	03	Time		HHMM	TM(4/8)	Required	
165	Date/Time Reference (Period End Date)	PTD Loop	DTM	DTL	210	04	Time Code	Time Zone for the period being reported in DTM02 and DTM03.	ED – Eastern Daylight Time ES – Eastern Standard Time	ID(2/2)	Optional	
166	Transaction Set Trailer	None	SE	DTL	180	01	Number of Included Segments	Number of segments in this transaction.	#	NO 1/10	Required	
167	Transaction Set Trailer	None	SE	DTL	180	02	Transaction Set Control Number		ST02	AN(4/9)	Required	Refer to examples at the back of the 867HIU Implementation Guide.