810 Invoice

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BIG	Beginning Segment for Invoice	M	1		
Must Use	050	REF	Reference Identification - Activity Code	O	1		
Must Use	050	REF	Reference Identification - Billing Option	O	1		
	050	REF	Reference Identification - Billing Cycle	O	1		
			LOOP ID - N1			1	
Must Use	070	N1	Name - Distribution Company	O	1		
			LOOP ID - N1			1	
Must Use	070	N1	Name - Supplier	O	1		
Must Use	140	DTM	Date/Time Reference - Billing Date	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
Must Use	010	IT1	Baseline Item Data (Invoice)	O	1		
	040	TXI	Tax Information - Current Sales Tax	O	1		
	059	MEA	Measurements - Total Non TOU	O	1		
	059	MEA	Measurements - Peak kwh	O	1		
	059	MEA	Measurements - Peak kw	O	1		
	059	MEA	Measurements - Peak Kva	O	1		
	059	MEA	Measurements - Offpeak kwh	O	1		
	059	MEA	Measurements - Offpeak kw	O	1		
	059	MEA	Measurements - Offpeak Kva	O	1		
	059	MEA	Measurements - Shoulder kwh	O	1		
	059	MEA	Measurements - Shoulder kw	O	1		
	059	MEA	Measurements - Shoulder Kva	O	1		
	059	MEA	Measurements - Demand Value	O	1		
	059	MEA	Measurements - Number Non-Metered Units	O	1		
Must Use	120	REF	Reference Identification - Disco Account	O	1		
Must Use	120	REF	Reference Identification - Supplier Account	O	1		
	120	REF	Reference Identification - Type of Service	O	1		
	120	REF	Reference Identification - Supplier Rate	O	1		
	120	REF	Reference Identification - Service Identifier	O	1		
	120	REF	Reference Identification - Pricing Structure	O	1		
	120	REF	Reference Identification - Primary Metering Indicator	O	1		
Must Use	150	DTM	Date/Time Reference - Current Read	O	1		

Must Use	150	DTM	Date/Time Reference - Previous Read	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Non TOU	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Current Peak	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Current Off-Peak	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Current Shoulder	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Current Demand	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Supplier Arrears	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Arrears Interest	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

LOOP ID - SLN					1
	200	SLN	Subline Item Detail - Current Customer Charge	O	1
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1

Summary:

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

Transaction Set Notes

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

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		

Data Element Summary

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	BIG01	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
Must Use	BIG02	76	**Invoice Number**	M	AN 1/22
			Identifying number assigned by issuer		
			The Utility will send a unique reference identifier.		
Must Use	BIG07	640	**Transaction Type Code**	O	ID 2/2
			Code specifying the type of transaction		
			BD **Statement of Balance Due**		
			PR **Product (or Service)**		

	Segment:	**REF** Reference Identification - Activity Code
	Position:	050
	Loop:	
	Level:	Heading
	Usage:	Optional (Must Use)
	Max Use:	1
	Purpose:	To specify identifying information

Data Element Summary

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

	Segment:	**REF** Reference Identification - Billing Option
	Position:	050
	Loop:	
	Level:	Heading
	Usage:	Optional (Must Use)
	Max Use:	1
	Purpose:	To specify identifying information

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	

	BLT	**Billing Type**
		Identifies whether the bill is consolidated by the LDC or ESP or whether each party will render their own bill.

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

LDC - The Utility bills the customer	Complete
DUAL - Each party bills the customer	Passthrough

Segment:	**REF** Reference Identification - Billing Cycle	
Position:	050	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify identifying information	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	
		BF	**Billing Center Identification**	
			Billing Cycle. Cycle number when the billing will be rendered.	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment:	**N1** Name - Distribution Company		
Position:	070		
Loop:	N1	Optional (Must Use)	
Level:	Heading		
Usage:	Optional (Must Use)		
Max Use:	1		
Purpose:	To identify a party by type of organization, name, and code		

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	
			8S **Consumer Service Provider (CSP)**	
			Utility	
	N102	**93**	**Name**	**X AN 1/60**
			Free-form name	
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)	
			1 **D-U-N-S Number, Dun & Bradstreet**	
Must Use	**N104**	**67**	**Identification Code**	**X AN 2/80**
			Code identifying a party or other code	

Segment:	**N1** Name - Supplier		
Position:	070		
Loop:	N1	Optional (Must Use)	
Level:	Heading		
Usage:	Optional (Must Use)		
Max Use:	1		
Purpose:	To identify a party by type of organization, name, and code		

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		
			SJ	**Service Provider**	
			Energy Service Provider		
	N102	93	**Name**		**X AN 1/60**
			Free-form name		
Must Use	N103	66	**Identification Code Qualifier**		**X ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1	**D-U-N-S Number, Dun & Bradstreet**	
Must Use	N104	67	**Identification Code**		**X AN 2/80**
			Code identifying a party or other code		

Segment: **DTM** **Date/Time Reference - Billing Date**
Position: 140
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify pertinent dates and times

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
		434	**Statement**		
Must Use	DTM05	1250	**Date Time Period Format Qualifier**	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
		D8	**Date Expressed in Format CCYYMMDD**		
Must Use	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:	**IT1** Baseline Item Data (Invoice)	
Position:	010	
Loop:	IT1 Optional (Must Use)	
Level:	Detail	
Usage:	Optional (Must Use)	
Max Use:	1	
Purpose:	To specify the basic and most frequently used line item data for the invoice and related transactions	
Notes:	The typical usage of the IT1 entails including all usage and charges attributed to one meter; in this case, the IT1 loop is qualified with "METER" in the IT108/IT109 pair. In the case where some charges are not attributed to a specific meter, for example, basic customer charge or late payment charge the IT1 loop is qualified with "ACCOUNT" in the IT108/IT109 pair. An 810 invoice may contain both "METER" and "ACCOUNT" IT1 loops. A Meter IT1 loop can be mapped differently, depending on whether Time-of-Use (TOU) or straight meter measurement is employed. With a TOU measurement, multiple MEA segments will convey the usage, with the MEA07 in each MEA providing the TOU classification. The IT1 loop for a non-TOU or straight meter measurement will contain a single MEA segment with no MEA07.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	IT101	350	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
			Line item counter		
Must Use	IT106	235	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			SV **Service Rendered**		
Must Use	IT107	234	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			ELECTRIC		
Must Use	IT108	235	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			C3 **Classification**		
Must Use	IT109	234	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			ACCOUNT **Account Model**		
			METER **Meter Model**		
			UNMET **Unmetered Services**		
D	IT110	235	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			IT110 and IT111 are used only if IT109 = METER		
			MB **Measurement Type Code**		
D	IT111	234	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			NT **Non-Time of Use Measurement**		
			TOU **Time of Use Measurement**		
Must Use	IT112	235	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			IT112 and IT113 are used to indicate that consumption will be provided but the actual meter readings will not be provided.		

			EQ	Equipment Type		
Must Use	**IT113**	**234**	**Product/Service ID**		**X**	**AN 1/48**

Identifying number for a product or service

NR = No reads will be presented

      NR   **No Reads**

	Segment:	**TXI** Tax Information - Current Sales Tax
	Position:	040
	Loop:	IT1 Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify tax information
	Notes:	Taxes included in this position are based on level indicated in IT109 for determining tax charges applicability.

Data Element Summary

	Ref. Des.	**Data Element**	**Name**	**Attributes**	
Must Use	**TXI01**	**963**	**Tax Type Code**	**M**	**ID 2/2**
			Code specifying the type of tax		
			SU **Sales and Use Tax**		
Must Use	**TXI02**	**782**	**Monetary Amount**	**X**	**R 1/18**
			Monetary amount		
Must Use	**TXI07**	**662**	**Relationship Code**	**O**	**ID 1/1**
			Code indicating the relationship between entities		
			A **Add**		
			The amount in TXI02 should be added when summing the invoice total.		

	Segment:	**MEA** Measurements - Total Non TOU
	Position:	059
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	MEA03	739	**Measurement Value**	**X R 1/20**
			The value of the measurement	
	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	
			KH **Kilowatt Hour**	
Must Use	MEA07	935	**Measurement Significance Code**	**O ID 2/2**
			Code used to benchmark, qualify or further define a measurement value	
			51 **Total**	

Segment:	**MEA**	Measurements - Peak kwh
Position:	059	
Loop:	IT1	Optional (Review NH Business rules format33.xls)
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	MEA03	739	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	C001	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	C00101	355	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**M ID 2/2**
			KH **Kilowatt Hour**	
Must Use	MEA07	935	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value	**O ID 2/2**
			42 **On Peak**	

	Segment:	**MEA** Measurements - Peak kw
	Position:	059
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	MEA03	739	**Measurement Value**	**X R 1/20**
			The value of the measurement	
	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	
Must Use	MEA07	935	**Measurement Significance Code**	**O ID 2/2**
			Code used to benchmark, qualify or further define a measurement value	
			42 On Peak	

	Segment:	**MEA** Measurements - Peak Kva
	Position:	059
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	MEA03	739	**Measurement Value**	X R 1/20
			The value of the measurement	
	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	
			K2 **Kilovolt Amperes Reactive Demand**	
Must Use	MEA07	935	**Measurement Significance Code**	O ID 2/2
			Code used to benchmark, qualify or further define a measurement value	
			42 **On Peak**	

Segment:	**MEA** Measurements - Offpeak kwh		
Position:	059		
Loop:	IT1	Optional (Review NH Business rules format33.xls)	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**M ID 2/2**
			KH Kilowatt Hour	
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value	**O ID 2/2**
			41 Off Peak	

	Segment:	**MEA** Measurements - Offpeak kw
	Position:	059
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	MEA03	739	**Measurement Value**	X R 1/20
			The value of the measurement	
	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**	
Must Use	MEA07	935	**Measurement Significance Code**	O ID 2/2
			Code used to benchmark, qualify or further define a measurement value	
			41 **Off Peak**	

Segment:	**MEA** Measurements - Offpeak Kva			
Position:	059			
Loop:	IT1	Optional (Review NH Business rules format33.xls)		
Level:	Detail			
Usage:	Optional			
Max Use:	1			
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**MEA03**	**739**	**Measurement Value**	**X**	**R 1/20**
			The value of the measurement		
	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		
			K2 **Kilovolt Amperes Reactive Demand**		
Must Use	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
			Code used to benchmark, qualify or further define a measurement value		
			41 **Off Peak**		

	Segment:	**MEA** Measurements - Shoulder kwh
	Position:	059
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	MEA03	739	**Measurement Value**	**X R 1/20**
			The value of the measurement	
	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	
			KH Kilowatt Hour	
Must Use	MEA07	935	**Measurement Significance Code**	**O ID 2/2**
			Code used to benchmark, qualify or further define a measurement value	
			66 Sales	

Segment:	**MEA** Measurements - Shoulder kw		
Position:	059		
Loop:	IT1	Optional (Review NH Business rules format33.xls)	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**M ID 2/2**
			K1　　　　　**Kilowatt Demand**	
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value	**O ID 2/2**
			66　　　　　**Sales**	

	Segment:	<u>**MEA**</u> Measurements - Shoulder Kva
	Position:	059
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**M ID 2/2**
			K2 **Kilovolt Amperes Reactive Demand**	
Must Use	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value	**O ID 2/2**
			66 **Sales**	

Segment:	**MEA**	Measurements - Demand Value		
Position:	059			
Loop:	IT1	Optional (Review NH Business rules format33.xls)		
Level:	Detail			
Usage:	Optional			
Max Use:	1			
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**MEA03**	**739**	**Measurement Value**	**X**	**R 1/20**
			The value of the measurement		
	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**
        K2   **Kilovolt Amperes Reactive Demand**

Must Use	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
			Code used to benchmark, qualify or further define a measurement value		

        62   **Current**

Segment:	**MEA** Measurements - Number Non-Metered Units		
Position:	059		
Loop:	IT1	Optional (Review NH Business rules format33.xls)	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	MEA01	737	**Measurement Reference ID Code**	O ID 2/2
			Code identifying the broad category to which a measurement applies	
			BC **Billed Actual**	
Must Use	MEA03	739	**Measurement Value**	X R 1/20
			The value of the measurement	
	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	
			UN **Unit**	

Segment:	**REF** Reference Identification - Disco Account		
Position:	120		
Loop:	IT1	Optional (Must Use)	
Level:	Detail		
Usage:	Optional (Must Use)		
Max Use:	1		
Purpose:	To specify identifying information		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3
		12	**Billing Account**	
			Utility-assigned account number for the end use customer.	
Must Use	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:	**REF**	Reference Identification - Supplier Account			
Position:	120				
Loop:	IT1	Optional (Must Use)			
Level:	Detail				
Usage:	Optional (Must Use)				
Max Use:	1				
Purpose:	To specify identifying information				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
		11	**Account Number**		
			Energy Service Provider-assigned account number for the end use customer.		
Must Use	REF02	127	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment:	**REF** **Reference Identification - Type of Service**	
Position:	120	
Loop:	IT1	Optional (Review NH Business rules format33.xls)
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify identifying information	

Data Element Summary

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

Segment:	**REF**	Reference Identification - Supplier Rate	
Position:	120		
Loop:	IT1	Optional (Review NH Business rules format33.xls)	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify identifying information		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
		RB	**Rate code number**	
			Identifies an Energy Service Provider rate class	
Must Use	REF02	127	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

	Segment:	**REF** Reference Identification - Service Identifier
	Position:	120
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify identifying information

Data Element Summary

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

	Segment:	**REF** Reference Identification - Pricing Structure
	Position:	120
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify identifying information

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	
		PR	**Price Quote Number**	
			Identifies a unit pricing category under a rate code	
Must Use	REF02	127	**Reference Identification**	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

	Segment:	**REF** Reference Identification - Primary Metering Indicator
	Position:	120
	Loop:	IT1 Optional (Review NH Business rules format33.xls)
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify identifying information

Data Element Summary

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

Segment:	**DTM** Date/Time Reference - Current Read		
Position:	150		
Loop:	IT1	Optional (Must Use)	
Level:	Detail		
Usage:	Optional (Must Use)		
Max Use:	1		
Purpose:	To specify pertinent dates and times		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	**Date/Time Qualifier**	**M ID 3/3**
			Code specifying type of date or time, or both date and time	
		151	**Service Period End**	
Must Use	DTM05	1250	**Date Time Period Format Qualifier**	**X ID 2/3**
			Code indicating the date format, time format, or date and time format	
		D8	**Date Expressed in Format CCYYMMDD**	
Must Use	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:	**DTM** Date/Time Reference - Previous Read
	Position:	150
	Loop:	IT1 Optional (Must Use)
	Level:	Detail
	Usage:	Optional (Must Use)
	Max Use:	1
	Purpose:	To specify pertinent dates and times

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	DTM01	374	**Date/Time Qualifier**	**M ID 3/3**
			Code specifying type of date or time, or both date and time	
			150 **Service Period Start**	
Must Use	DTM05	1250	**Date Time Period Format Qualifier**	**X ID 2/3**
			Code indicating the date format, time format, or date and time format	
			D8 **Date Expressed in Format CCYYMMDD**	
Must Use	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:	**SLN** Subline Item Detail - Non TOU	
Position:	200	
Loop:	SLN	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify product subline detail item data	
Notes:	The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops.	
	Each SLN loop will contain only one SAC and TXI. Multiple charges/allowances require multiple SLN loops.	

Data Element Summary

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

	Segment:	**SAC** Service, Promotion, Allowance, or Charge Information
	Position:	230
	Loop:	SLN Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
	Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**		**M ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			C	**Charge**	
				The amount in SAC05 should be added when summing the invoice total.	
	SAC03	559	**Agency Qualifier Code**		**X ID 2/2**
			Code identifying the agency assigning the code values		
			EU	**Electric Utilities**	
				Use this code until the DM for "UT" code is approved.	
Must Use	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**		**X AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			ENC001	**Energy Charges**	
Must Use	SAC05	610	**Amount**		**O N2 1/15**
			Monetary amount		
			The SAC01 will indicate whether to add or subtract from the TDS.		

Segment: **SLN** **Subline Item Detail - Current Peak**
Position: 200
Loop: SLN   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data

Data Element Summary

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

	Segment:	**SAC** Service, Promotion, Allowance, or Charge Information
	Position:	230
	Loop:	SLN Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
	Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**	**M ID 1/1**
			Code which indicates an allowance or charge for the service specified	
			C **Charge**	
			The amount in SAC05 should be added when summing the invoice total.	
	SAC03	559	**Agency Qualifier Code**	**X ID 2/2**
			Code identifying the agency assigning the code values	
			EU **Electric Utilities**	
Must Use	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	**X AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge	
			ENC037 **Peak Charge**	
Must Use	SAC05	610	**Amount**	**O N2 1/15**
			Monetary amount	

Segment: <u>**SLN**</u> **Subline Item Detail - Current Off-Peak**
Position: 200
Loop: SLN   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data

Data Element Summary

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

Segment:	**SAC**	Service, Promotion, Allowance, or Charge Information	
Position:	230		
Loop:	SLN	Optional	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge		
Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**SAC01**	**248**	**Allowance or Charge Indicator**	**M**	**ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			C **Charge**		
			The amount in SAC05 should be added when summing the invoice total.		
	SAC03	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
			EU **Electric Utilities**		
Must Use	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**	**X**	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			ENC003 **Off Peak Charge**		
Must Use	**SAC05**	**610**	**Amount**	**O**	**N2 1/15**
			Monetary amount		

Segment: **SLN** **Subline Item Detail - Current Shoulder**
Position: 200
Loop: SLN   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data

Data Element Summary

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

Segment:	**SAC** **Service, Promotion, Allowance, or Charge Information**	
Position:	230	
Loop:	SLN	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge	
Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	SAC01	248	**Allowance or Charge Indicator**	**M**	**ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			C **Charge**		
			The amount in SAC05 should be added when summing the invoice total.		
	SAC03	559	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
			EU **Electric Utilities**		
Must Use	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	**X**	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			ENC038 **Shoulder Charge**		
Must Use	SAC05	610	**Amount**	**O**	**N2 1/15**
			Monetary amount		

Segment:	**SLN**	**Subline Item Detail - Current Demand**
Position:	200	
Loop:	SLN	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify product subline detail item data	

Data Element Summary

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

	Segment:	**SAC** Service, Promotion, Allowance, or Charge Information
	Position:	230
	Loop:	SLN Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
	Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**		**M ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			C	**Charge**	
				The amount in SAC05 should be added when summing the invoice total.	
	SAC03	559	**Agency Qualifier Code**		**X ID 2/2**
			Code identifying the agency assigning the code values		
			EU	**Electric Utilities**	
Must Use	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**		**X AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			DMD001	**Demand Charge**	
Must Use	SAC05	610	**Amount**		**O N2 1/15**
			Monetary amount		

Segment:	**SLN** Subline Item Detail - Supplier Arrears		
Position:	200		
Loop:	SLN	Optional	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify product subline detail item data		

Data Element Summary

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

Segment:	**SAC**	**Service, Promotion, Allowance, or Charge Information**
Position:	230	
Loop:	SLN	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge	
Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**SAC01**	**248**	**Allowance or Charge Indicator**	**M**	**ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			C **Charge**		
			The amount in SAC05 should be added when summing the invoice total.		
	SAC03	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
			EU **Electric Utilities**		
Must Use	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**	**X**	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			PRB001 **Past Due Balance**		
Must Use	**SAC05**	**610**	**Amount**	**O**	**N2 1/15**
			Monetary amount		

Segment:	**SLN** Subline Item Detail - Arrears Interest	
Position:	200	
Loop:	SLN	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify product subline detail item data	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SLN01	350	**Assigned Identification**	M AN 1/20

Alphanumeric characters assigned for differentiation within a transaction set

Used as a loop counter

| Must Use | SLN03 | 662 | **Relationship Code** | M ID 1/1 |

Code indicating the relationship between entities

A   Add

	Segment:	**SAC** Service, Promotion, Allowance, or Charge Information
	Position:	230
	Loop:	SLN Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
	Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	SAC01	248	**Allowance or Charge Indicator**	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			C **Charge**		
			The amount in SAC05 should be added when summing the invoice total.		
	SAC03	559	**Agency Qualifier Code**	X	ID 2/2
			Code identifying the agency assigning the code values		
			EU **Electric Utilities**		
Must Use	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge		
			LPC001 **Late Payment Charge**		
Must Use	SAC05	610	**Amount**	O	N2 1/15
			Monetary amount		

	Segment:	<u>**SLN**</u> **Subline Item Detail - Current Customer Charge**
	Position:	200
	Loop:	SLN Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify product subline detail item data

Data Element Summary

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

	Segment:	**SAC** Service, Promotion, Allowance, or Charge Information
	Position:	230
	Loop:	SLN Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
	Notes:	Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**		**M ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			C	**Charge**	
				The amount in SAC05 should be added when summing the invoice total.	
	SAC03	559	**Agency Qualifier Code**		**X ID 2/2**
			Code identifying the agency assigning the code values		
			EU	**Electric Utilities**	
Must Use	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**		**X AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			BAS001	**Basic Customer Administrative Charges**	
Must Use	SAC05	610	**Amount**		**O N2 1/15**
			Monetary amount		

	Segment:	**TDS** Total Monetary Value Summary
	Position:	010
	Loop:	
	Level:	Summary
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To specify the total invoice discounts and amounts
	Notes:	TDS01 is the total amount due for this invoice and must equal the algebraic sum of the amounts in the TXI02 and SAC05 segments. If this amount is negative, send the minus sign.

Data Element Summary

	Ref. Des.	**Data Element**	**Name**	**Attributes**
Must Use	TDS01	610	**Amount**	M N2 1/15
			Monetary amount	

       Segment: **CTT** **Transaction Totals**
       Position: 070
       Loop:
       Level: Summary
       Usage: Optional
       Max Use: 1
       Purpose: To transmit a hash total for a specific element in the transaction set

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	CTT01	354	**Number of Line Items**	M N0 1/6

Total number of line items in the transaction set

The number of IT1 segments.

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

Data Element Summary

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