



# **We Energies Implementation Guideline**

**Electronic  
Data  
Interchange**

**Transaction Set  
810 Invoice**

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# Introduction

This implementation guide documents the EDI-810 transaction set that WEC Group provides to its customers for accounts in the following utilities:

- We Energies – applied to current EDI users, as well as future enrollments
- WPS
- PGL
- NSG
- MERC
- MGU

## Specific notes

### EDI Billing

- EDI-820/Electronic Funds Transfer (EFT) is the preferred method of payment for EDI Billing.

### 810 as a single invoice

- WEC Group implementation of this transaction set is used to represent a single invoice for a single contract bill (formerly known as account). One contract may contain multiple meters.

### 997 – Functional Acknowledgment

- A “Functional Acknowledgment” (also referred to as a 997 transaction), is a requirement to confirm receipt of WEC Group EDI-810. The Functional Acknowledgment is created by the trading partner, or the VAN working on behalf of the trading partner. The Functional Acknowledgment confirms that an EDI transaction has been received and accepted by WEC Group trading partner and indicates the time and date of receipt. Functional Acknowledgment shall constitute evidence that an energy bill has been received but does not verify an energy bill's content.

## Data types

Data type	Format
AN	Alphanumeric – Any combination of alphabetic, numeric or special characters. Other than data element separator, segment terminator or sub-element separator characters.
DT	Date, in CCYYMMDD format. (Version 4010 and later uses 8-digit dates in every date. Type data element other than the one in ISA header record.)
TM	Time, in HHMM or HHMMSSd..d format.
Nx	Numeric, with x decimals to right of a fixed, implied decimal point, and may contain a negative sign (-) preceding the number. Decimal point is not transmitted. Absence of sign implies a positive number.
R	Decimal numbers, which may contain an explicit decimal, a variable number of digits to right of decimal, and may contain a negative sign (-) preceding number. Note that minus sign and decimal are not counted against maximum length of data element.
ID	Coded data element "identifier," where list of valid codes is provided in X12 standards, or in some externally referenced standard.

1. Data element lengths are represented as N/M, where N is minimum and M is maximum length of related data element.
2. Data element requirement designator indicates whether an element is mandatory (required), optional or conditional (may be required based upon presence/absence of value in related data element).
3. Note: To meet needs of industry, some data elements have been altered from their originally intended standard usage. Some elements' max lengths have been increased and some elements' data type usage have changed. Check all min/max and data type usage of ALL included data elements to ensure data can be received without issues.

# 810 Invoice

<b>Heading</b>				
Pos. no.	Seg. ID	Name	Req. des.	Max use
010	ST	Transaction set header	M	1
020	BIG	Beginning segment for invoice	M	1
030	NTE	Note/Special instruction	O	100
050	PER	Administrative communications contact	O	3
		LOOP ID –N1 (Mailing Address)	O	1
070	N1	Name	O	1
080	N2	Additional name information	O	2
090	N3	Address information	O	2
110	REF	Reference Identification	O	12
		END LOOP ID –N1		
<b>Detail</b>				
130	ITD	Term of Sale/Deferred Terms of Sale	O	>1
160	PID	Baseline Item data (invoice)	O	200
214	PAM	Period Amount	O	>1
		LOOP ID-IT1	O	10
010	IT1	Baseline Item Data – Offering Service	O	1
040	TXI	Tax Information	O	10
059	MEA	Gas information on Service Billed	O	40
		END LOOP ID-IT1		
100	PO4	Item Physical Details – Supplier Balance details	O	1
110	ITD	Term of Sale/Deferred Terms of Sale (Meter Reading)	O	2
120	REF	Reference Identification	O	>1
130	PER	Administrative communications contact	O	5
		LOOP ID-SLN	O	1000
200	SLN	Subline Item Detail	O	1
230	SAC	Service, Promotion, Allowance, or Charge Information	O	25
		END LOOP ID- SLN	O	
<b>Summary</b>				
010	TDS	Total Monetary Value Summary	M	1
		LOOP ID-ISS		25
060	ISS	Invoice Shipment Summary	O	1
065	PID	Product/Item Description	O	1
		END LOOP ID-ISS		
070	CTT	Transaction totals	M	1

<b>Segment</b>	<b>ST</b> Transaction Set Header				
<b>Position</b>	010				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Mandatory				
<b>Max Use</b>					
<b>Purpose</b>	Indicate start of transaction set and assign control number				
<b>Syntax notes</b>					
<b>Semantic notes</b>	Transaction set identifier (ST01) used by translation routines of interchange partners to select appropriate transaction set definition (e.g., 810 selects invoice transaction set)				
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
ST01	143	<b>Transaction set identifier code</b> Code uniquely identifying a transaction set	M	ID	3/3
ST02	329	<b>Transaction set control number</b> Identifying control number that must be unique within transaction set functional group assigned by originator for a transaction set	M	AN	4/9

<b>Segment</b>	<b>BIG</b> Beginning Segment for Invoice				
<b>Position</b>	020				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Mandatory				
<b>Max use</b>	1				
<b>Purpose</b>	Indicate beginning of invoice transaction set and transmit identifying numbers and dates				
<b>Syntax notes</b>					
<b>Semantic notes</b>	BIG01 is invoice issue date				
<b>Comments</b>					
<b>Data element summary</b>					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
BIG01	0373	<b>Contract Bill Date</b> Date expressed as CCYYMMDD This date is reflected in the bill as the 'Bill Date' in the contract by WEC Energy Group billing statement	M	DT	8/10
BIG02	0076	<b>Contract Invoice number</b> Unique invoice number identifying this bill	M	AN	1/22
BIG03	0373	<b>Contract Bill Due Date</b> Date expressed as CCYYMMDD This date reflects the due date on the bill.	M	DT	8/8
BIG04	0324	<b>Customer ID</b> This reflects the customer ID found in the account number of the bill. It is the number that comes before the sequence number.	M	AN	5/22
BIG05	0328	<b>Contract Number</b> This reflects the customer ID along with the sequence number found in the account number of the bill. This is a unique id on each bill besides contract Invoice number	M	ID	15/30
BIG06	0327	<b>Contract Sequence Number</b> This reflects the customer contract sequence number. In a bill, a customer with multiple billing accounts will have the same contract number but unique sequence number.	O	ID	8/8

<b>Segment</b>	<b>NTE</b> Note/Special Instruction				
<b>Position</b>	030				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	10				
<b>Purpose</b>	Transmit information in free-form format, if necessary, for comment or special instruction				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>	NTE segment permits free-form information/data that, under ANSI X12 standard implementation, cannot be processed by machine Used for required messages and notices printed on invoice				
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
NTE01	0363	Code identifying functional area or purpose for which note applies ADD- Additional Information Utility-required messages or notices	O	ID	3/3
NTE02	0352	Free-form description to clarify related data elements and content If bill message exceeds 80 characters, message is continued to the next NTE segment	M	AN	1/80

<b>Segment</b>	<b>PER</b> Administrative Communications Contact				
<b>Position</b>	060				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	3				
<b>Purpose</b>	Specify identifying information				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
PER01	0366	<b>Contact function code</b> IC Information Contact	M	ID	2/2
PER02	0093	<b>Name</b> Customer Service Name	O	AN	1/60
PER03	0365	<b>Communication Number Qualifier</b> TE Telephone	C	ID	2/2
PER04	0364	<b>Communication Number</b> Customer Service Phone Number - 24hr Service line (Gas/Electric/Steam)	C	AN	1/80
PER05	0365	<b>Communication Number Qualifier</b> TE Telephone	C	ID	2/2
PER06	0364	<b>Communication Number</b> Customer Service Phone Number - 24hr Service line (Gas/Electric/Steam)	C	AN	1/80
PER07	0365	<b>Communication Number Qualifier</b> TE Telephone	C	ID	2/2
PER08	0364	<b>Communication Number</b> Customer Service Phone Number - 24hr Service line (Gas/Electric/Steam)	C	AN	1/80



<b>Segment</b>	<b>N1</b> Name				
<b>Position</b>	070				
<b>Loop</b>	N1				
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	1				
<b>Purpose</b>	Mailing Address Information				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
N101	0098	<b>Entity identifier code</b> KB Customer for whom the bill is billed for	M	ID	2/3
N102	0093	<b>Name</b> Free-form name – Customer name on Mailing Address section	C	AN	1/60
N104	0067	<b>Identification Code</b> Free-form text – Mailing Address	C	AN	2/80

<b>Segment</b>	<b>N2</b> Additional Name Information				
<b>Position</b>	080				
<b>Loop</b>	N1				
<b>Level</b>					
<b>Usage</b>	Conditional				
<b>Max use</b>	1				
<b>Purpose</b>	Specify additional names or those longer than 60 characters in length				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
N201	0093	<b>Address Information</b> Free-form name - Customer Service Address	M	AN	1/60

<b>Segment</b>	<b>N3</b> Address Information				
<b>Position</b>	090				
<b>Loop</b>	N1				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	2				
<b>Purpose</b>	Specify location of named.				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
N301	0166	<b>Address Information</b> Free-form name - Customer Mailing Address	M	AN	1/55
N302	0166	<b>Address Information</b> Free-form name - Customer Mailing Address continued	O	AN	1/55

<b>Segment</b>	<b>REF</b> Reference Identification				
<b>Position</b>	050				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	1				
<b>Purpose</b>	Specify identifying information				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
REF01	0128	<b>Reference identification qualifier</b> BLT - Billing Type	M	ID	3/3
REF03	0352	<b>Bill Inserts</b> {x} – number of bill inserts shown in this field.	C	AN	1/80

<b>Segment</b>	<b>ITD</b> Terms of Sale/Deferred Terms of Sale				
<b>Position</b>	130				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	>1				
<b>Purpose</b>	Current month/year & Previous month/year service type account summary details				
<b>Syntax notes</b>	It holds current & past consumption information in the bill				
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
ITD01	0336	<b>Term Type Code</b> 01 – Basic Billed CA – Cancelled Bill	O	ID	2/2
ITD03	0338	<b>No. of Days for the period</b>	O	R	1/6
ITD04	0370	<b>Begin Date for the period</b> Format - CCYYMMDD	C	DT	1/8
ITD05	0351	<b>Average Temperature for the period</b>	O	N0	1/3
ITD06	0446	<b>Due Date for the period</b>	O	DT	1/8
ITD08	0362	<b>Amount Due/Cooling Days for the period</b>	O	N2	1/10
ITD09	0388	<b>Meter Read Date</b>	O	DT	8/8
ITD11	0342	<b>Heating Days for the period</b>	O	R	1/5
ITD12	0352	<b>Description of Service or Usage type description</b>	O	AN	1/80
ITD13	0765	<b>Day of Month</b> See Reference A: Day of Months in Appendix section	C	N0	1/2
ITD14	0107	<b>Service Type Code</b>	O	ID	1/2
ITD15	0954	<b>Per duration values</b> Holds previous year/month & current month gas value	O	R	1/10

<b>Segment</b>	<b>PID</b> Product/Item Description				
<b>Position</b>	160				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	>1				
<b>Purpose</b>	This contains usage information for the active billing period				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
PID01	0349	<b>Item description type</b> F - Free Form Text	M	ID	1/1
PID03	0559	<b>Agency Qualifier Code</b> ZZ - Mutually Defined	C	ID	2/2
PID04	0751	<b>Product description text</b> Contains the date for when the charges was made, if any. Format of CCYYMMDD	C	AN	1/12
PID05	0352	<b>Description of Charges</b> Description of the charges made	C	AN	1/80
PID07	0822	<b>Charge Amount</b> 6-decimal places	O	AN	1/15

<b>Segment</b>	<b>PAM</b> Period Amount				
<b>Position</b>	214				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	>1				
<b>Purpose</b>	Periodic graphical summary on a bill				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>	Electrical, Gas or Steam services information is populated in this segment. Hence it could loop more than once and each loop defined by its own service data				
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
PAM01	0673	<b>Quantifier Code</b> 99 –Quantity Used (Usage Month info) UG – Gas Used (represented in graph)	C	ID	2/2
PAM02	0380	<b>Usage Month</b> See Reference A: Day of Months in Appendix section	C	R	1/15
C001 PAM03			C	Comp	
C001 PAM03:01	0355	<b>Unit or Basis for measurement code</b> MO – Months	M	ID	2/2
C001 PAM03:02	1018	<b>Usage Month 2</b> See Reference A: Day of Months in Appendix section	O	R	1/15
C001 PAM03:03	649	<b>Usage Month 3</b> See Reference A: Day of Months in Appendix section	O	R	1/10
C001 PAM03:05	1018	<b>Usage Month 4</b> See Reference A: Day of Months in Appendix section	O	R	1/15
C001 PAM03:06	649	<b>Usage Month 5</b> See Reference A: Day of Months in Appendix section	O	R	1/10
C001 PAM03:08	1018	<b>Usage Month 6</b> See Reference A: Day of Months in Appendix section	O	R	1/15
C001 PAM03:09	649	<b>Usage Month 7</b> See Reference A: Day of Months in Appendix section	O	R	1/10
C001 PAM03:11	1018	<b>Usage Month 8</b> See Reference A: Day of Months in Appendix section	O	R	1/15
C001 PAM03:12	649	<b>Usage Month 9</b> See Reference A: Day of Months in Appendix section	O	R	1/10
C001	1018	<b>Usage Month 10</b>	O	R	1/15

PAM03:14		See Reference A: Day of Months in Appendix section			
C001 PAM03:15	649	<b>Usage Month 11</b> See Reference A: Day of Months in Appendix section	O	R	1/10
PAM04	0522	<b>Amount Qualifier Code</b> AU – Coverage Amount	C	ID	1/3
PAM05	0782	<b>Usage Month 12</b> See Reference A: Day of Months in Appendix section	C	R	1/18
PAM06	0344	<b>Unit of Time Period or Interval</b>	C	ID	2/2
PAM07	0374	<b>Begin &amp; End date time qualifier</b> AB4 – Time Period If PAM 09 or PAM 12 is present, then this field is activated	C	ID	3/3
PAM08	0373	<b>Date</b> Activity Date	C	DT	8/8
PAM09	0337	<b>Begin Year Date</b> CCYY	C	DT	8/8
PAM10	0374	<b>Date/Time Qualifier</b> 709 – Analysis Month Ending	C	ID	3/3
PAM11	0373	<b>Date</b> Current Date	C	DT	8/8
PAM12	0337	<b>End Year Date</b> CCYY	C	DT	4/8
PAM13	1004	<b>Percent Qualifier</b> 9 –Other CJ - Charges	C	ID	1/2
PAM14	0954	<b>Usage Month 13</b> See Reference A: Day of Months in Appendix section	C	R	1/10
PAM15	1073	<b>Conditional Response</b> Y or N value is passed If nothing applies, U is passed as unknown	O	ID	1/1

<b>Segment</b>	<b>IT1</b> Baseline Item Data				
<b>Position</b>	010				
<b>Loop</b>	IT1				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	10				
<b>Purpose</b>	Offering Services Group details				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
IT101	0350	<b>Offering Type Code</b> EL – Electrical service GS – Gas service SE – Steam service	O	AN	1/20
IT102	0358	<b>Quantity Invoiced</b>	C	R	1/10
IT103	0355	<b>Unit or Basis for Measurement Code</b> DO - USD	C	ID	1/2
IT104	0212	<b>Offering Type Total Charge Amount</b> 6 decimal places	C	R	1/17
IT106	0235	<b>Product/Service ID Qualifier</b> Offering Category UT – Electric or Gas Service	C	ID	2/2
IT107	0234	<b>Offering Type Category Description</b> Description on the type of services offered	C	AN	1/48
IT108	0235	<b>Product/Service ID Qualifier</b> ZZ – Mutual Defined	C	ID	2/2
IT109	0234	<b>Offering Type Category Description</b> Bill Print Description	C	AN	1/48
IT110	0235	<b>Product/Service ID Qualifier</b> ZZ – Mutual Defined	C	ID	2/2
IT111	0234	<b>Offering Type Category Description</b> Bill Print Tariff	C	AN	1/48

<b>Segment</b>	<b>TXI</b> Tax Information				
<b>Position</b>	040				
<b>Loop</b>	IT1				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	1				
<b>Purpose</b>	Tax Information				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
TX101	0963	<b>Tax Type Code</b> SU – Sales & Use Tax	M	ID	2/2
TX102	0782	<b>Taxed Dollars Basis Amount</b> 4 decimal places	C	R	1/18
TX103	0954	<b>Tax Amount</b> 4 decimal places	C	R	1/10
TX105	0956	<b>Tax Rate</b> 6 decimal places	C	AN	1/10
TX109	0325	<b>Tax Service Type</b> Description on the type of Tax Charge	O	AN	1/20
TX110	0325	<b>Charges Group Name</b> Tax name	O	AN	1/20



<b>Segment</b>	<b>MEA</b> Measurements				
<b>Position</b>	059				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	>1				
<b>Purpose</b>	This contains description on the service bills, for gas services only				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
C001 MEA04					
C001 MEA04:01	0355	<b>Unit or Basis for Measurement Code</b> UN - Unit	M	ID	2/2
C001 MEA04:02	1018	<b>Therms quantity</b>	O	R	1/15
MEA05	0740	<b>CCF Quantity</b>	C	R	1/20
MEA06	0741	<b>BTU Quantity</b>	C	R	1/20
MEA08	0936	<b>Measurement Attribute Code</b> 07 – Yes (Contain gas service information) 20 – No (Does not contain gas service information)	C	ID	2/2

<b>Segment</b>	<b>P04</b> Item Physical Details				
<b>Position</b>	100				
<b>Loop</b>	IT1				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	1				
<b>Purpose</b>	Meter reading information. We are using this segment to hold any additional Meter Information that is not captured in other section of the bill				
<b>Syntax notes</b>	During testing, we have not come across any fields populated.				
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
P0402	0357	<b>Size</b> Unadjusted Quantity usage NOTE: If there are no values on this field, the rest of the data is not shown	C	R	1/8
P0403	0355	<b>Unit or Basis for Measurement Code</b> Unadjusted Quantity usage unit of measure UN - Unit	C	ID	2/2
P0404	0103	<b>Packaging Code</b> 71- Not Otherwise specified	C	AN	3/5
P0405	0187	<b>Weight Qualifier</b> Unit of measurement	O	ID	1/2
P0406	0384	<b>Gross Weight per Pack</b> Usage quantity No decimal places	C	R	1/9
P0407	0355	<b>Unit or Basis for Measurement Code</b> Offering Amount Unit of Measure	C	ID	2/2
P0408	0385	<b>Gross Volume per Pack</b> Usage quantity (ES) No decimal places	C	R	1/9
P0410	0082	<b>Length</b> Usage quantity (ON) No decimal places	C	R	1/8
P0411	0189	<b>Width</b> Usage quantity (EC) No decimal places	C	R	1/8
P0412	0065	<b>Height</b> Any difference in reading (ON) Estimate (current) – Actual (last reading) No decimal places	C	R	1/8

P0413	0355	<b>Unit or Basis for Measurement Code</b> ES usages unit of measure	C	ID	2/2
P0415	0752	<b>Surface/Layer/Position Code</b> EC usages unit of measure	O	ID	2/2
P0416	0350	<b>Assigned Identification</b> Service Bill Id	C	AN	1/20
P0417	0350	<b>Assigned Identification</b> Service Sequence Number	O	AN	1/20
P0418	1470	<b>Number</b> After Tax No.	O	N0	1/9

<b>Segment</b>	<b>ITD</b> Terms of Sale/Deferred Terms of Sale
<b>Position</b>	110
<b>Loop</b>	IT1
<b>Level</b>	
<b>Usage</b>	Optional
<b>Max use</b>	>1
<b>Purpose</b>	Meter Reading Information details
<b>Syntax notes</b>	
<b>Semantic notes</b>	
<b>Comments</b>	

Data element summary					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
ITD01	0336	<b>Term Type Code</b> 40 – Bill to Bill	O	ID	2/2
ITD03	0338	<b>Reading Quantity</b> Meter Constant reading amount No decimal places	O	R	1/6
ITD04	0370	<b>Current Reading Taken Date</b> Format CCYYMMDD	C	DT	8/8
ITD06	0446	<b>Previous Reading Taken Date</b> Format CCYYMMDD	C	DT	8/8
ITD08	0386	<b>Current Reading Quantity</b> No decimal places	O	N2	1/10
ITD10	0389	<b>Previous Reading Quantity</b> No decimal places	O	N2	1/10
ITD11	0342	<b>Usage Quantity</b> No decimal places	O	R	1/5
ITD12	0352	<b>Reading Reasons</b> Description	O	AN	1/80
ITD13	0765	<b>Unit Code</b>	O	N0	1/2

		Unit of measure for Reading amount			
ITD15	0954	<b>Percent</b> Multi meter quantity if any No decimal places	O	N0	1/2

<b>Segment</b>	<b>REF</b> Reference Identification				
<b>Position</b>	120				
<b>Loop</b>	IT1				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	>1				
<b>Purpose</b>	Specify Meter Reading identifying information				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
REF01	0128	<b>Reference identification qualifier</b> MG – Meter Number	M	ID	2/3
REF02	0127	<b>Meter Number</b> Meter number value	C	AN	1/15
REF03	0352	<b>Customer Location Text</b> Description of Customer information	C	AN	1/80
C040 REF04			C	Comp	
C040 REF04:01	0128	<b>Qualifier</b> MG – Meter Number	M	ID	2/3
C040 REF04:02	0127	<b>Previous Meter Reading Description</b> Previous Meter Reading information	M	AN	1/30
C040 REF04:03	0128	<b>Reference Identification Qualifier</b> MG – Meter Number	C	ID	2/3
C040 REF04:04	0127	<b>Reference Identification</b> Previous Meter Reading Amount	C	AN	1/30
C040 REF04:05	0128	<b>Reference Identification Qualifier</b> 9K - Servicer	C	ID	2/3
REF06	0127	<b>Fuel Name</b> Type of services: <ul style="list-style-type: none"> <li>• Electric</li> <li>• Gas</li> <li>• Steam</li> </ul>	C	AN	1/30

<b>Segment</b>	<b>PER</b> Administrative Communications Contact				
<b>Position</b>	060				
<b>Loop</b>					
<b>Level</b>	Heading				
<b>Usage</b>	Optional				
<b>Max use</b>	3				
<b>Purpose</b>	Specify identifying information				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
PER01	0366	<b>Contact function code</b> ZZ – Mutually Defined	M	ID	2/2
PER02	0093	<b>Name</b> Description of Sub Premise Service Type	O	AN	1/60

<b>Segment</b>	<b>SLN</b> Subline Item Detail				
<b>Position</b>	200				
<b>Loop</b>	SLN				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	1				
<b>Purpose</b>	Displays Charge Details in a bill				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
Ref. des.	Data element	Name	Req. des.	Data type	Min/Max
SLN01	0350	<b>Assigned Identification</b> Title/Detail of the Charge Type	M	AN	1/20
SLN03	0662	<b>Relationship Code</b> O – Information only	M	ID	1/1
SLN09	0235	<b>Product/Service ID Identifier</b> ZZ –Mutually Defined	C	ID	2/2
SLN10	0234	<b>Product/Service ID</b> Description of the Charge type	C	AN	1/48
SLN11	0235	<b>Product/Service ID Identifier</b> ZZ –Mutually Defined	C	ID	2/2
SLN12	0234	<b>Product/Service ID</b> Description of the Charge type	C	AN	1/48
SLN13	0235	<b>Product/Service ID Identifier</b> ZZ –Mutually Defined	C	ID	2/2
SLN14	0234	<b>Product/Service ID</b> Description of the Charge type	C	AN	1/48
SLN15	0235	<b>Product/Service ID Identifier</b> ZZ –Mutually Defined	C	ID	2/2
SLN16	0234	<b>Product/Service ID</b> Description of the Charge type	C	AN	1/48
SLN17	0235	<b>Product/Service ID Identifier</b> ZZ –Mutually Defined	C	ID	2/2
SLN18	0234	<b>Product/Service ID</b> Description of the Charge type	C	AN	1/48
SLN19	0235	<b>Product/Service ID Identifier</b> ZZ –Mutually Defined	C	ID	2/2
SLN20	0234	<b>Product/Service ID</b> Description of the Charge type	C	AN	1/48

<b>Segment</b>	<b>SAC</b> Service, Promotion, Allowance, or Charge Information				
<b>Position</b>	230				
<b>Loop</b>	SLN				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	25				
<b>Purpose</b>	Displays breakdown details on the various Service Charges in a bill				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
SAC01	0248	<b>Allowance &amp; Charge Indicator</b> C – Charge	M	ID	1/1
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> Offering type code	C	ID	4/4
SAC03	0559	<b>Agency Qualifier Code</b> ZZ –Mutually Defined	C	ID	2/2
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> Measurement Unit Text	C	AN	1/10
SAC05	0610	<b>Amount</b> Rate Dollar Amount 2 Decimal places	O	N2	1/15
SAC09	0355	<b>Unit or Basis for Measurement Code</b> C5 – Cost/Charge	C	ID	2/2
SAC10	0380	<b>Quantity</b> Usage Amount If usage amount is empty, we pass in 0	C	R	1/15
SAC11	0380	<b>Quantity</b> Charge Amount	O	R	1/15
SAC13	0127	<b>Reference Identification</b> Charge Group Name	C	AN	1/30
SAC15	0352	<b>Description</b> Charge calculation text details	C	AN	1/80

<b>Segment</b>	<b>TDS</b> Total Monetary Value Summary				
<b>Position</b>	010				
<b>Loop</b>					
<b>Level</b>	Summary				
<b>Usage</b>	Mandatory				
<b>Max use</b>	1				
<b>Purpose</b>					
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. Des.</b>	<b>Data Type</b>	<b>Min/Max</b>
TDS01	0610	<b>Amount</b> Contract Bill Amount 2 decimal places from right	M	N2	1/15



<b>Segment</b>	<b>ISS</b> Invoice Shipment Summary				
<b>Position</b>	060				
<b>Loop</b>	ISS				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>					
<b>Purpose</b>	All total charges of the offering types				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
ISS03	0081	<b>Offering total amount charged</b> Charge amount	C	R	1/10
ISS04	0355	<b>Measurement Code</b> C5 - Cost	C	ID	2/2
ISS07	0380	<b>Offering cost per unit</b>	O	R	1/15
ISS08	0354	<b>Offering total consumption amount</b>	O	R	1/10

<b>Segment</b>	<b>PID</b> Product/Item Description				
<b>Position</b>	065				
<b>Loop</b>	ISS				
<b>Level</b>					
<b>Usage</b>	Optional				
<b>Max use</b>	1				
<b>Purpose</b>					
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
PID01	0349	<b>Item description type</b> F – Free-Form	M	ID	1/1
PID03	0559	<b>Agency Qualifier Code</b> ZZ – Mutually Defined	C	ID	2/2
PID04	0751	<b>Offering type code description</b>	C	AN	1/12
PID05	0352	<b>Offering type description</b>	C	AN	1/80
PID07	0822	<b>Offering measurement unit code</b> Unit of measure	O	AN	1/15

<b>Segment</b>	<b>CTT</b> Transaction Totals				
<b>Position</b>	070				
<b>Loop</b>					
<b>Level</b>	Summary				
<b>Usage</b>	Mandatory				
<b>Max use</b>					
<b>Purpose</b>	Count of all included IT1 loops				
<b>Syntax notes</b>					
<b>Semantic notes</b>					
<b>Comments</b>					
<b>Data element summary</b>					
<b>Ref. des.</b>	<b>Data element</b>	<b>Name</b>	<b>Req. des.</b>	<b>Data type</b>	<b>Min/Max</b>
CTT01	0354	<b>Number of Line items</b>	M	NO	1/6



## APPENDIX

### Reference A: Day of Months

#### Day of Month

January – 1

February – 2

March – 3

April – 4

May – 5

June – 6

July – 7

August – 8

September – 9

October – 10

November – 11

December – 12



### Reference B: Sample of Electric Only Data

BIG\*20190717\*<<UNIQUE>>\*20190810\*<<UNIQUE>>\*<<UNIQUE>>\*<<UNIQUE>>~  
NTE\*ADD\*You can view your bills online in your account.~  
NTE\*ADD\*Even out your energy bills! Enroll in Budget Billing by paying exactly \$XXX.XX ,~  
NTE\*ADD\* rather than the amount due shown. This will then be your monthly Budget amount.~  
NTE\*ADD\* Every six months, your account will be reviewed and your payment may be adjuste~  
NTE\*ADD\*d to better reflect your actual use.~  
PER\*CR\*Customer Service\*\*800-714-7777\*TE\*24-Hour Gas Emergencies\*TE\*800-261-5325~  
PER\*CR\*24-Hour Electric Emergencies\*TE\*800-662-4797~  
N1\*KB\*<<UNIQUE>>\*<<UNIQUE>>~  
N2\*<<UNIQUE>>\*<<UNIQUE>> ~  
N3\*<<UNIQUE>>\*<<UNIQUE>>~  
REF\*BLT\*\*{8}~  
ITD\*\*\*\*\*3451\*20190812\*20200717~  
ITD\*\*\*36\*20190610\*72\*20190716\*58\*240\*\*1000\*\*2.2KWH\*7\*Y\*2019~  
ITD\*\*\*\*\*10~  
ITD\*\*\*\*\*10~  
ITD\*01\*\*\*\*\*20190716\*\*\*20190610\*100\*\*Billed - in KWH~  
PID\*F\*\*ZZ\*\*Balance\*\*0.000000~  
PID\*F\*\*ZZ\*\*Total Current Charges\*\*34.510000~  
PID\*F\*\*ZZ\*\*Total Current Balance\*\*34.510000~  
PAM\*\*7\*MO>8>9>>10>11>>12>1>>2>3>>4>5\*\*6\*\*AB4\*\*2018\*\*\*2019\*\*7~  
PAM\*\*\*KH\*\*\*\*\*100\*Y~  
PAM\*\*7\*MO>8>9>>10>11>>0>0>>0>0>>0\*\*0\*\*\*\*\*0~  
PAM\*\*\*KH\*\*\*\*\*34.51\*Y~  
IT1\*EL \*\*\*35.51\*\*\*Electric Service~  
TXI\*SU\*31.71\*1.59\*\*5.000000\*\*\*\*WI State Tax\*Taxes~  
PO4\*\*\*UN\*\*\*\*\*149200~  
ITD\*40\*\*21030\*20190717\*\*20190610\*\*\*\*100\*20930\*Actual Reading\*0\*\*1~  
REF\*MG\*\*<<METER#>>\*<<MG>Start Reading>>>>Electric~  
SLN\*Facilities\*\*O\*\*\*\*\*ZZ\*33 Days at \$2~  
SAC\*C\*F060\*ZZ\*No Unit\*00\*\*\*\*\*66\*\*Energy Charges/Credits~  
SLN\*Energy On-Peak\*\*O\*\*\*\*\*ZZ\*51,646 KWH at \$0.07135~  
SAC\*C\*F060\*ZZ\*KWH\*00\*\*\*\*\*51\*3684.94\*\*Energy Charges/Credits~  
SLN\*Energy Off-Peak\*\*O\*\*\*\*\*ZZ\*97,795 KWH at \$0.05088~  
SAC\*C\*F060\*ZZ\*KWH\*00\*\*\*\*\*97\*4975.81\*\*Energy Charges/Credits~  
SLN\*Demand On-Peak\*\*O\*\*\*\*\*ZZ\*10/09/2020 14:30 267 KW 22 Days at \$15.184~  
SAC\*C\*F060\*ZZ\*No Unit\*\*\*\*\*4054.13\*\*Demand Charges/Credits~  
SLN\*Customer Demand\*\*O\*\*\*\*\*ZZ\*11/01/2020 02:00; 17472 KW at \$2.55000~  
SAC\*C\*F060\*ZZ\*KW\*00\*\*\*\*\*17472\*44553.6\*\*Demand Charges/Credits~  
SLN\*Act 141 2005 Contrib\*ution\*O\*\*\*\*\*ZZ\*33 Days at \$3.09425~  
SAC\*C\*F060\*ZZ\*No Unit\*00\*\*\*\*\*102.11\*\*Other Service Charges/Credits~  
SLN\*Act 141 Base Rate \*\*O\*\*\*\*\*ZZ\*149,442 KWH at -\$0.00243~  
SAC\*C\*F060\*ZZ\*KWH\*00\*\*\*\*\*149\*-363.14\*\*Other Service Charges/Credits~  
SLN\*2017 Tax Cut-Deferre\*d Tax Credit\*O\*\*\*\*\*ZZ\*149,442 KWH at -\$0.00187~  
SAC\*C\*F060\*ZZ\*KWH\*00\*\*\*\*\*149\*-279.46\*\*Other Service Charges/Credits~  
SLN\*State Low Income Ass\*istance Fee\*O\*\*\*\*\*ZZ\* ~  
SAC\*C\*F060\*ZZ\*No Unit\*\*\*\*\*31.59\*\*Other Service Charges/Credits~  
TDS\*5960849~  
ISS\*\*59608.49\*C5\*\*\*400000\*149442~  
PID\*F\*\*ZZ\*EL\*Electric Service\*\*KWH~  
CTT\*1~



### Reference C: Sample of Gas Only Data

BIG\*20190416\*<<UNIQUE>>\*20190508\*\*<<UNIQUE>>\*\*\*<<UNIQUE>>\*\*\*<<UNIQUE>>\*~  
NTE\*ADD\*If any portion of your energy use is for residential or farm purposes, and is no~  
NTE\*ADD\*t subject to Wisconsin sales tax from November-April, please let us know.~  
NTE\*ADD\*You can view your bills online in your account.~  
NTE\*ADD\*Even out your energy bills! Enroll in Budget Billing by paying exactly \$3070.00 ,~  
NTE\*ADD\* rather than the amount due shown. This will then be your monthly Budget amount.~  
NTE\*ADD\* Every six months, your account will be reviewed and your payment may be adjuste~  
NTE\*ADD\*d to better reflect your actual use.~  
PER\*CR\*Customer Service\*\*800-714-7777\*TE\*24-Hour Gas Emergencies\*TE\*800-261-5325~  
PER\*CR\*24-Hour Electric Emergencies\*TE\*800-662-4797~  
N1\*KB\*\*<<UNIQUE>>\*\*\*\*<<UNIQUE>>\*~  
N2\*\*<<UNIQUE>>\*\*\*<<UNIQUE>>\*~  
N3\*\*<<UNIQUE>>\*\*\*<<UNIQUE>><<UNIQUE>>\*~  
REF\*BLT\*\*{8}~  
ITD\*\*\*\*\*31613\*20190515\*20190416~  
ITD\*\*\*28\*20190319\*39\*20190415\*723\*0\*\*\*\*\*4\*N\*2019~  
ITD\*\*\*29\*\*20\*\*129\*0\*\*\*\*\*3\*N\*2019~  
ITD\*\*\*28\*\*39\*\*723\*0\*\*\*\*\*4\*\*2018~  
ITD\*\*\*\*\*499.6\*17.8\*Therms\*\*Y~  
ITD\*\*\*\*\*1183\*40.8\*Therms\*\*Y~  
ITD\*\*\*\*\*256\*9.1\*Therms\*\*Y~  
ITD\*01\*\*\*\*\*20190415\*\*\*20190319\*499.6\*\*Billed - in THERMS~  
PID\*F\*\*ZZ\*20190406\*Previous Balance\*\*0.000000~  
PID\*F\*\*ZZ\*\*Balance\*\*0.000000~  
PID\*F\*\*ZZ\*\*Total Current Charges\*\*316.130000~  
PID\*F\*\*ZZ\*\*Total Current Balance\*\*316.130000~  
PAM\*\*4\*MO>5>6>>7>8>>9>10>>11>12>>1>2\*\*3\*\*AB4\*\*2018\*\*\*2019\*\*4~  
PAM\*\*256\*TD>1>0>>0>1>>0>69>>1220>1750>>1763>1363\*\*1183\*\*\*\*\*499.6\*Y~  
PAM\*\*4\*MO>5>6>>7>8>>0>0>>0>0>>0\*0\*\*\*\*\*0~  
PAM\*\*189.88\*TD>27.45>28.7>>26.01>27.28>>28.7>58.88>>366.52>1153.32>>1183.11>956.27\*\*806.44\*\*\*\*\*316.13\*Y~  
IT1\*GS\*\*\*316.13\*\*\*Gas Service~  
TXI\*SU\*299.65\*14.98\*\*5.000000\*\*\*\*WI State Tax\*Taxes~  
PAM\*\*\*UN>>>>>>>>>>>>>>>484.6>1.031\*\*\*\*\*499.6\*Y~  
PWK\*58\*\*\*\*Firm Comm/Ind Sales Class 1 (WGC)\*Fg-1~  
ITD\*40\*\*1799\*20190416\*\*20190319\*\*\*\*484.59\*1412\*Actual Reading\*0\*\*1.2522~  
REF\*MG\*<<METER#>>\*>MG>Actual Reading>>>Gas~  
PID\*F\*\*\*\*Facilities~  
SAC\*C\*F060\*\*\*00\*\*\*\*\*9.24\*\*Local Distribution Service\*\*28 Days at \$0.33000~  
PID\*F\*\*\*\*Distribution~  
SAC\*C\*F060\*\*TD\*00\*\*\*\*\*499.6\*146.08\*\*Local Distribution Service\*\*499.6 Therms at \$0.29240~  
PID\*F\*\*\*\*Base Gas~  
SAC\*C\*F060\*\*TD\*00\*\*\*\*\*499.6\*181.06\*\*Gas Supply Service\*\*499.6 Therms at \$0.36240~  
PID\*F\*\*\*\*PGA~  
SAC\*C\*F060\*\*TD\*00\*\*\*\*\*499.6\*-7.19\*\*Gas Supply Service\*\*499.6 Therms at -\$0.03100 (13/28 Days)~  
PID\*F\*\*\*\*PGA~  
SAC\*C\*F060\*\*TD\*00\*\*\*\*\*499.6\*-27.89\*\*Gas Supply Service\*\*499.6 Therms at -\$0.10420 (15/28 Days)~  
PID\*F\*\*\*\*2017 Tax Cut-Deferred Tax Credit~





REF\*MG\*01952154\*\*MG>Actual Reading>>>>Gas~  
SLN\*Facilities\*\*O\*\*\*\*\*ZZ\*30 Days at \$0.33000~  
SAC\*C\*F060\*ZZ\*No Unit\*00\*\*\*\*\*9.9\*\*Local Distribution Service~  
SLN\*Distribution\*\*O\*\*\*\*\*ZZ\*41 Therms at \$0.19080~  
SAC\*C\*F060\*ZZ\*Therms\*00\*\*\*\*\*41\*7.82\*\*Local Distribution Service~  
SLN\*Base Gas\*\*O\*\*\*\*\*ZZ\*41 Therms at \$0.35150~  
SAC\*C\*F060\*ZZ\*Therms\*00\*\*\*\*\*41\*14.41\*\*Gas Supply Service~  
SLN\*PGA\*\*O\*\*\*\*\*ZZ\*41 Therms at -\$0.10240 (17/30 Days)~  
SAC\*C\*F060\*ZZ\*Therms\*00\*\*\*\*\*41\*-2.38\*\*Gas Supply Service~  
SLN\*PGA\*\*O\*\*\*\*\*ZZ\*41 Therms at -\$0.14590 (13/30 Days)~  
SAC\*C\*F060\*ZZ\*Therms\*00\*\*\*\*\*41\*-2.59\*\*Gas Supply Service~  
SLN\*2017 Tax Cut-Deferre\*d Tax Charge\*O\*\*\*\*\*ZZ\*41 Therms at \$0.01010~  
SAC\*C\*F060\*ZZ\*Therms\*00\*\*\*\*\*41\*0.41\*\*Other Service Charges/Credits~  
TDS\*40681~  
ISS\*\*\*63.91\*C5\*\*\*200000\*327~  
PID\*F\*\*ZZ\*EL\*Electric Service\*\*KWH~  
ISS\*\*\*28.95\*C5\*\*\*710000\*41~  
PID\*F\*\*ZZ\*GS\*Gas Service\*\*THERMS~  
CTT\*2~