### **EDI**

Electronic Data Interchange

Utilisation of TRADACOMS Utility Bill Version 3

Monthly, Quarterly and Half-Hourly Billing

(Electricity Supply)

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# Message structure of TRADACOMS Utility Bill File Format 26 V3

The transmission consists of the following messages, in the given order.

|  |  |  |
| --- | --- | --- |
| Identity | Repeats | Description |
|  |  |  |
| STX | No | Address details of the transmission |
|  |  |  |
| UTLHDR | No | Defines the supplier (npower - and the specific customer) |
|  |  |  |
| UTLBIL | Yes | Defines the bill for a particular customer location - repeats for each location |
|  |  |  |
| UVATLR | No | Summaries the VAT values |
|  |  |  |
| UTLTLR | No | Defines the totals for the whole interchange from npower to specific customer |
|  |  |  |
| END | No | Segment that marks the end of the transmission (contains the number of messages in the transmission only) |

# Segment Structure

# Each segment consists of:

# Segment label (eg: STX)

# Separator (=)

# 1 or more Data elements

# o Data (coded or free-text as permitted by rules)

# o Separator (:)

# o Data

# o Data Element terminator (+)

# Segment terminator (‘)

# 

# Document Descriptions

# Within the guidelines these are set out as format tables – detailing permitted segments and data for each File format. Each format table contains the following columns:

# Column 1 (Segment): shows the Segment code

# contains the ‘separator’ (‘=’, ‘+’ or ‘:’) that precedes the element described in the current line

# Column 2: contains the Segment separator (‘=’) that precedes the element described in the current line

# Column 3: contains the Data Element separator (‘+’) that precedes the element described in the current line

# Column 4 (Data Element): shows the Data Element code

# Column 5: contains the Sub Data Element separator (‘:’) that precedes the element described in the current line

# Column 6 (Data Element Name) : contains the Segment name (eg: ‘Message Header’) or Data Element/Sub-element name (eg: ‘Type of Message’)

# Column 7 (M/C): shows whether the segment/element/sub-element is required (mandatory) or used under specified conditions (conditional) and contains either ‘M’ (Mandatory) or ‘C’ (Conditional)

# Column 8 (F/V): shows whether the data in the segment/element/sub-element is of fixed or variable length and contains either ‘F’ (Fixed length) or ‘V’ (Variable length)

# Column 9 (Picture): contains information on the number and type of characters allowed in the data:

# eg: 9(10) – Numeric (10 digits)

# X(30) – Alphanumeric (30 characters)

# 9(10) V 9(4) – Total 14 digits consisting of:

# Numeric (10 digits)

# Variable numeric (4 decimal places)

# Column 10 (Content): contains an explanation of the use of the segment or data element

# Usage Notes

The Charge Type indicator is taken as: -

1. : Consumption Only
2. : Combined Consumption and Charge
3. : Charge Only (Cons Based)
4. : Charge Only (Fixed)
5. : Readings for Info Only
6. : Variable charge (non-consumption based)

For consumption related charges the format of the charges is one line with Charge type 2 (HH) or 3 (NHH) that will hold the total units billed, with price and total cost and the vat details. For NHH the charge line will be preceded by Charge Type lines with an indicator 1 that will detail all the meter reads/consumption that comprise the total units billed for the charge type. For unmetered supplies only a charge line 3 is displayed.

# Date format

Note that Dates are in the form YYMMDD unless otherwise stated.

# Numeric formats

Leading zeros should not be sent; but trailing zeros in a decimal value must be included, eg £12.50 in a data element which is defined as having four decimal places must be sent as 125000.

A negative value may be sent by placing ‘:R’ after the value, eg –1250 becomes 1250:R

# Characters with special meaning

The following five characters have special significance in a TRADACOMS transmission:

= The Equals sign is used to separate a segment label from the first data element in the segment.

+ The Plus sign is used to separate successive data elements within a segment.

: The Colon is used in composite data elements to separate successive component sub-elements.

’ The Apostrophe is used to terminate a segment.

? The Question Mark is used as a “release character”. When any of these five characters with special meaning is required as part of the text content of a data element, it must be preceded by the release character in order to ensure that it is not misinterpreted. For example, O’REILLY must be sent as O?’REILLY. Note that the release character is not counted as part of the length of the data element.

# Supplier Details

Reference to Npower Details is specific to the Electricity Supply Business.

# Omitted Segment and Data Elements

Where no data exists for a segment which is not mandatory, the segment must not be transmitted.

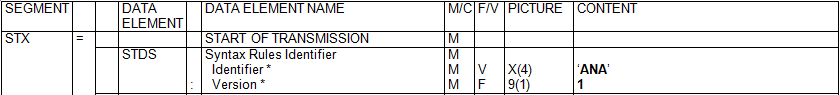
Within a segment, empty data elements which precede an element which has data must be indicated by sending the required number of separators, e.g. SEG=+++DATA’.

Any empty data elements which follow the last element in the segment which has data, will be sent with the full set of separators, e.g. SEG=DATA+++’

The same conventions apply to sub-elements within a composite element, i.e. +:::DATA+

# Manual Invoices and Manual Credit Notes

We now include data in the EDI files for invoices and credit notes manually (separately from the supply invoice) created where previously we were not able to show this information. As these documents are not in the same format as the supply invoice and credit note formats there are a number of fields, which are not used. The fields that are used will present data in the same way as supply invoices would be presented so the fields that have been used are highlighted by a \* against the field name in the Data Element Name column, e.g.



**STX Segment (Start of Transmission)**

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| STX | = |  |  |  | START OF TRANSMISSION | M |  |  |  |
|  |  |  | STDS | : | Syntax Rules Identifier  Identifier \*  Version \* | M  M  M | V  F | X(4)  9(1) | ‘**ANA**’  **1** |
|  |  | + | FROM | : | Identification of Transmission Sender  Code \*  Name \* | M  C  C | V  V | X(14)  X(35) | presently set to ‘**5029722010008**’  presently set to ‘**NPOWER LIMITED**’ |
|  |  | + | UNTO | : | Identification of Transmission Recipient  Code \*  Name \* | M  C  C | V  V | X(14)  X(35) | Customer’s ANA reference (any accounts with the same ANA and invoices issued will be displayed)  Customer name |
|  |  | + | TRDT | : | Date and Time of Transmission  Date \*  Time \* | M  M  C | F  F | 9(6)  9(6) | Date of transmission (YYMMDD)  Time of transmission (HHMMSS) |
|  |  | + | SNRF |  | Sender’s Transmission Reference \* | M | V | X(14) | Unique reference for the transmission format  Char 1..2 Version of this File  Char 3..7 Incrementing for each File sent to the customer ANA. |
|  |  | + | RCRF |  | Recipient’s Transmission Reference | C | V | X(14) | Not used |
|  |  | + | APRF |  | Application Reference \* | C | V | X(14) | ‘**UTLHDR**’ if live transmission  ‘**UTLTES**’ if test transmission  ‘**UTLCPY**’ if copy transmission |
|  |  | + | PRCD |  | Transmission Priority Code | C | F | X(1) | not used |

# MHD Segment (Message Header)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MHD | = |  |  |  | MESSAGE HEADER | M |  |  |  |
|  |  |  | MSRF |  | Message Reference \* | M | V | 9(12) | Consecutive count of messages  within the transmission |
|  |  | + | TYPE | : | Type of Message  Type \*  Version Number \* | M  M  M | F  F | X(6)  9(1) | ‘**UTLHDR**’  ‘**3**’ for this version |

# TYP Segment (Transaction Type Details)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYP | = |  |  |  | TRANSACTION TYPE DETAILS | M |  |  |  |
|  |  |  | TCDE |  | Transaction Code \* | M | F | 9(4) | ‘**0715**’ if APRF = ‘UTLHDR’ or ‘UTLTES’  ‘**0716**’ if APRF = ‘UTLCPY’ or ‘UTLTES’ |
|  |  | + | TTYP |  | Transaction Type \* | C | V | X(12) | Not used |

# SDT Segment (Supplier Details)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SDT | = |  |  |  | SUPPLIER DETAILS | M |  |  | Invoicing Party |
|  |  |  | SIDN | : | Supplier’s Identity  Supplier’s EAN Location Number \*  Supplier’s Identity Allocated by Customer | M  C  C | F  V | 9(13)  X(17) | presently set to ‘**5029722010008**’  not used |
|  |  | + | SNAM |  | Supplier’s Name \* | C | V | X(40) | presently set to ‘**Npower Commercial Gas Limited’** |
|  |  | + | SADD | :  :  :  : | Supplier’s Address  Supplier’s Address Line 1 \*  Supplier’s Address Line 2 \*  Supplier’s Address Line 3 \*  Supplier’s Address Line 4 \*  Supplier’s Post Code \* | C  C  C  C  C  C | V  V  V  V  V | X(35)  X(35)  X(35)  X(35)  X(8) | npower head office address |
|  |  | + | VATN | : | Supplier’s VAT Registration Number  Numeric VAT Registration Number \*  Alphanumeric VAT Registration Number | C  C  C | F  V | 9(9)  X(17) | npower Limited VAT number  not used |

# CDT Segment (Customer Details)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CDT | = |  |  |  | CUSTOMER DETAILS | M |  |  | Invoice Recipient |
|  |  |  | CIDN | : | Customer’s Identity  Customer’s EAN Location Number \*  Customer’s Identity Allocated by Supplier | M  C  C | F  V | 9(13)  X(17) | Customer’s ANA reference  Not used |
|  |  | + | CNAM |  | Customer’s Name | C | V | X(40) | Customer’s Name |
|  |  | + | CADD | :  :  :  : | Customer’s Address  Customer’s Address Line 1 \*  Customer’s Address Line 2 \*  Customer’s Address Line 3 \*  Customer’s Address Line 4 \*    Customer’s Post Code \* | C  C  C  C  C  C | V  V  V  V  V | X(35)  X(35)  X(35)  X(35)  X(8) | Customer’s head office address  Customer’s Address Line 1  Customer’s Address Line 2  Customer’s Address Line 3  Customer’s Address Line 4 & Customer’s Address Line 5  Customer’s Post Code |
|  |  | + | VATR | : | Customer’s VAT Registration Number  Numeric VAT Registration Number \*    Alphanumeric VAT Registration Number | C  C  C | F  V | 9(9)  X(17) | Populated if present otherwise, displayed as 0’s  Not used |

# FIL Segment (File Details)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FIL | = |  |  |  | FILE DETAILS | M |  |  | File control numbers |
|  |  |  | FLGN |  | File Generation Number \* | M | V | 9(4) | Sequential by group , within customer, within business unit feed. |
|  |  | + | FLVN |  | File Version Number \* | M | V | 9(4) | Increases by 1 if file is re-produced,1 = original version |
|  |  | + | FLDT |  | File Creation Date \* | M | F | 9(6) | YYMMDD |
|  |  | + | FLID |  | File (Reel) Identification | C | V | X(6) | not used |

# FDT Segment (File Period Dates)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FDT | = |  |  |  | FILE PERIOD DATES | C |  |  | File dates |
|  |  |  | IVED |  | Invoice Period End Date | C | F | 9(6) | YYMMDD (End date of the latest bill period) |
|  |  | + | DVED |  | Delivery Period End Date \* | C | F | 9(6) | YYMMDD (Tax point date of bill) |

# REF Segment (Account Reference Number)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| REF | = |  |  |  | ACCOUNT REFERENCE NUMBER |  |  |  | File level references |
|  |  |  | REFF |  | Account identifier (Supplier’s Reference) \* | C | V | X(17) | Group Account Number (if applicable) |
|  |  |  |  | : | Customer’s Reference | C | V | X(17) | Not used |
|  |  | + | SCRF |  | Specification No. | C | V | X(17) | Not used |
|  |  |  |  | : | Contract No. | C | V | X(17) | Not used |

# MTR Segment (Message Trailer)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MTR | = |  |  |  | MESSAGE TRAILER | M |  |  |  |
|  |  |  | NOSG |  | Number of Segments in Message \* | M | V | 9(10) | Count of segments within the message, e.g. ‘8’ |

# MHD Segment (Message Header)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MHD | = |  |  |  | MESSAGE HEADER | M |  |  |  |
|  |  |  | MSRF |  | Message reference \* | M | V | 9(12) | Consecutive count of messages within the transmission |
|  |  | + | TYPE | : | Type of message  Type \*  Version Number \* | M  M  M | F  F | X(6)  9(1) | ‘**UTLBIL**’ (Tax document) or ‘**UTLCPY**’ (Copy)  ‘**3**’ for this version |

# CLO Segment (Customer Location)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CLO | = |  |  |  | CUSTOMER’S LOCATION | M |  |  | Premises being billed |
|  |  |  | CLOC | :  : | Customer’s Location  Customer’s EAN Location Number \*  Customer’s Own Location Number\*  Supplier’s Identity of Customer’s Location \* | M  C  C  C | F  V  V | 9(13)  X(17)  X(17) | Customer number (generated by the system)  Account reference (if required)  Premises account number |
|  |  | + | CNAM |  | Customer’s Name | C | V | X(40) | Premises name |
|  |  | + | CADD | :  :  :  : | Customer’s Address  Customer’s Address Line 1 \*  Customer’s Address Line 2 \*  Customer’s Address Line 3 \*  Customer’s Address Line 4 \*    Customer’s Post Code \* | C  C  C  C  C  C | V  V  V  V  V | X(35)  X(35)  X(35)  X(35)  X(8) | Premises Address  Premises Address Line 1  Premises Address Line 2  Premises Address Line 3  Premises Address Line 4 & Premises Address Line 5  Premises Post Code |

# BCD Segment (Bill Control Data/Header)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BCD | = |  |  |  | BILL CONTROL DATA | M |  |  | Bill level references |
|  |  |  | IVDT |  | Date of Invoice \* | M | F | 9(6) | Date of Issue of Account (YYMMDD) |
|  |  | + | TXDT |  | Tax-point Date \* | M | F | 9(6) | Date of Issue of Account (YYMMDD) |
|  |  | + | INVN |  | Invoice Number \* | C | V | X(17) | Account invoice number 10 characters  Example = IN12345678 or CR12345678 |
|  |  | + | PBID |  | Previous Bill Date | C | F | 9(6) | Not used |
|  |  | + | BIFR |  | Bill Frequency Code | C | V | X(3) | “M,Z,L,Q or A”  where M = Calendar Monthly Billed  Z = Four/Four/Five or Mid Monthly  L = Lunar Monthly  Q = Quarterly  A = Annual |
|  |  | + | BTCD |  | Bill Type Code \* | C | V | X(3) | “N” = Normal Bill, “O” = Copy Bill or “W” = Withdrawn Bill (Credit) |
|  |  | + | VDAA | :  :  :  : | VAT Declaration for Amended Account  VAT Declaration Code \*  Date of Bill Withdrawn \*  VAT Total Amount on Bill Withdrawn \*  Amended Invoice Reference \*  Premises reference of previous bill | C  M  M  M  C  C | V  F  V  V  V | X(3)  9(6)  9(10)V9(2)  X(17)  X(17) | Mandatory for Amended Accounts  “CNC” Stands for Cancelled.  Tax point date of withdrawn invoice  Total VAT from the withdrawn invoice  Withdrawn invoice number  Not used |
|  |  | + | SUMO | : | Supply Period  Start date  End date | C  C  C | V  V | 9(6)  9(6) | YYMMDD (Invoice period start date)  YYMMDD (Invoice period end date) |
|  |  | + | CLVM | : | Calorific Value in Specified Units  Calorific Value  Unit of measure | C  C  C | V  V | 9(10)V9(3)  X(6) | Not used |

# PYT Segment (Settlement Terms)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PYT | = |  |  |  | SETTLEMENT TERMS | C |  |  | Settlement Terms |
|  |  |  | SEQA |  | First Level Sequence Number | M | V | 9(10) | Fixed value of “1” as no repetition of segment |
|  |  | + | PAYT |  | Terms of Payment \* |  |  | X(40) | Description of payment term |
|  |  | + | PAYD | : | Payment Date and Terms  Payment Date \*    Settlement Discount Percentage \* | C  M  M | F  V | 9(6)  9(3)V9(3) | YYMMDD (payment due date from tax point date)  Fixed value of “0" |
|  |  | + | PAYY | :  : | Settlement Terms  Number of Days  Settlement Discount Percentage  Settlement Code | C  M  M  C | F  V  V | 9(6)  9(3)V9(3)  X(3) | Not used  Not used  Not used |

# 

# CDA Segment (Contract Data: Not used at npower)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CDA | = |  |  |  | CONTRACT DATA | C |  |  | Purchase Order Number Reference |
|  |  |  | CPSC |  | Current Price Schedule Reference | C | V | X(17) | Not used |
|  |  | + | ORNO | :  :  : | Order Number and Date   |  | | --- | | Customer's order number | | Supplier's order number | | Date order placed by customer | | Date order received by supplier | | C  C  C  C  C | V  V  F  F | X(17)  X(17)  9(6)  9(6) | Purchase Order Number Reference (if required) |
|  |  | + | INSD |  | Installation Date | C | F | 9(6) | Not used |
|  |  | + | REPE |  | Rental Period | C | F | 9(6) | Not used |

# DNA Segment (Data Narrative)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DNA | = |  |  |  | DATA NARRATIVE | C |  |  |  |
|  |  |  | SEQA |  | First Level Sequence Number | M | V | 9(10) | Consecutive count of DNA segments in the message |
|  |  | + | DNAC |  | Data Narrative Code  Code Table Number  Code Value | C  C  C | V  V | 9(4)  X(3) | not used |
|  |  | + | RTEX | :  :  :  :  :  :  : | Registered Text  First Line Registered Text \*  Application Text \*  Second Line Registered Text \*  Application Text \*  Third Line Registered Text \*  Application Text \*  Fourth Line Registered Text \*  Application Text \* | C  C  C  C  C  C  C  C  C | V  V  V  V  V  V  V  V | X(3)  X(40)  X(3)  X(40)  X(3)  X(40)  X(3)  X(40) | npower Contact Information  PH  08001382322  EM  [group.support.services@npower.com](mailto:group.support.services@npower.com)  WEB  [www.npower.com/nbs](http://www.npower.com/nbs)  DNO  Call 105, B |
|  |  | + | GNAR | :  :  : | General Narrative  General Narrative Line 1 \*  General Narrative Line 2 \*    General Narrative Line 3 \*  General Narrative Line 4 \* | C  C  C  C  C | V  V  V  V | X(40)  X(40)  X(40)  X(40) | Invoice Narratives   |  | | --- | | VAT Declaration: xxx%, YYMMDD | | CCL Exemption: xxx%, YYMMDD - YYMMDD | | Directed Utility: YYMMDD | | THIS IS NOT A VAT INVOICE | |

# CCD Segment (Consumption/Charge Details)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | | F/V | PICTURE | | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CCD | = |  |  |  | CONSUMPTION/CHARGE DETAILS | M | |  |  | | CCD Type 1 - one per meter |
|  |  |  | SEQA |  | First Level Sequence Number \* | M | | V | 9(10) | | Consecutive count of number of CCD Segments in Message |
|  |  | + | CCDE | :  : | Charge Type Code  Consumption/Charge Indicator \*    EAN-13 Article Number  Supplier Code \* | M  C  C  C | | V  F  V | X(3)  9(13)  X(3) | | Charge type indicator as described earlier in the document, e.g. CCL = 3  Not used  Charge grouping description, e.g. FIT = Feed in Tariff |
|  |  | + | TCOD | : | Tariff Code  Tariff Code \*    Tariff Code Description \* | C  C  C | | V  V | X(6)  X(40) | | Npower Charge Type Code, e.g. FTA = Feed in Tariff Actual  Charge Type Description  If Charge is timebanded then Description of time pattern, DUoS charges now show as Red, Amber or Green only for HH and Red (Unit 1) or Amber (Unit 2) for NHH |
|  |  | + | TMOD | :  :  : | Tariff Code Modifier  Tariff Code Modifier 1  Tariff Code Modifier 2  Tariff Code Modifier 3  Tariff Code Modifier 4 | C  C  C  C  C | | V  V  V  V | X(6)  X(6)  X(6)  X(6) | | Time banding code for consumption charges  Not used  Not used  Not used |
|  |  | + | MTNR |  | Meter Number | C | | V | X(35) | |  |
|  |  | + | MLOC |  | Meter Location | C | | V | X(40) | | Shows the MPAN the charge is related to, account level charges do not display the MPAN |
|  |  | + | PRDT |  | Present Reading Date | C | | F | 9(6) | | YYMMDD |
|  |  | + | PVDT |  | Previous Reading Date | C | | F | 9(6) | | YYMMDD |
|  |  | + | NDRP |  | Reading Period | C | | V | 9(3) | | Number of days between the reads or charge start and end date |
|  |  | + | PRRD | :  :  : | Reading Data  Present Reading  Type    Previous Reading  Type | C  M  C  M  C | V  V  V  V | | | 9(15)  X(4)  9(15)  X(4) | Used for NHH only (read shown to 1 dp)  Meter Read  Reading Type 00 = Actual, 02 = Estimate, 04 = COR  Meter Read  Reading Type 00 = Actual, 02 = Estimate, 04 = COR |
|  |  | + | CONS | :  : | Consumption (Billing Units)  Units Consumed    Unit of Measure  Negative Indicator | C  M  M  C | V  V  V | | | 9(10)V9(3)  X(6)  X(4) | Units billed for Charge Type. Any consumption data shown is before adjustment. Where charge is in days, values are displayed as “30000:DAYS”  “kWh”, “kW” or “MWh”  “R” appears after the unit of measure if the value is negative |
|  |  | + | CONB | :  : | Consumption (Base Units)  Units Consumed  Unit of Measure  Negative Indicator | C  M  M  C | V  V  V | | | 9(10)V9(3)  X(6)  X(4) | Units billed for Charge Type. Only where the Tariff code = “NCO” and shows NHH read data  “kWh”  “R” appears after the unit of measure if the value is negative |
|  |  | + | ADJF | :  : | Adjustment Factor    Adjustment Factor Code      Adjustment Factor Value    Negative Indicator | C  C  M  C | V  V  V | | | X(3)  9(10)V9(5)  X(4) | Any adjustment factors relating to consumption of exemption relief %  “MM” = Meter Multiplier (Consumption), “GSP” = DLOSS, “NBP” = DLOSS & TLOSS “CHG” = CCL, FiT, RO or CFD relief %  Or “HH” = Time max demand value recorded  Meter Multiplier value, relief %, HH or GSP/NBP, including average adjustment factor  “R” appears after the value if the value is negative |
|  |  | + | CONA | :  : | Consumption (Adjusted Units)  Units Consumed    Unit of Measure  Negative Indicator | C  M  M  C | V  V  V | | | 9(10)V9(3)  X(6)  X(4) | Units billed for Charge Type after adjustment. Only used where the Tariff code = “NCO” and does show read data or HH consumption after adjustments  “kWh”  “R” appears after the unit of measure if the value is negative |
|  |  | + | BPRI |  | Base Price Per Unit | C | V | | | 9(10)V9(5) | Contract Rate, all prices are in pence except where TCOD1 = “CCL”, which is displayed in £ |
|  |  | + | NUCT | :  : | Units of Charge Type  Number of Units for Charge Type  Unit of Measure  Negative Indicator | C  M  M  C | V  V  V  V | | | 9(10)V9(3)  X(6)  X(4) | Units billed for Charge Type after adjustment, values are displayed as “30000:DAYS”  “kWh”, “kW” or “MWh”  R < 0 |
|  |  | + | CSDT |  | Charge Start Date | C | F | | | 9(6) | YYMMDD |
|  |  | + | CEDT |  | Charge End Date | C | F | | | 9(6) | YYMMDD |
|  |  | + | CPPU |  | Price per Unit | C | V | | | 9(10)V9(5) | Contract Rate, all prices are in pence except where TCOD1 = “CCL”, which is displayed in £ |
|  |  | + | CTOT | : | Total Charge for Charge Type  Total Charge for Charge Type \*  Credit Indicator \* | C  M | V | | | 9(10)V9(2) | Amount Billed for Charge Type  “R” appears after the amount if the value is negative |
|  |  | + | TSUP |  | VAT - Type of Supply | C | F | | | X(1) | Not used |
|  |  | + | VATC |  | VAT Rate Category Code \* | C | F | | | X(1) | S = Standard  L = De-Min  A = Dom Decl applied  O = Outside the Scope  X = Exempt  Z = Zero |
|  |  | + | VATP |  | VAT Rate Percentage | C | V | | | 9(3)V9(3) | Not used |
|  |  | + | MSAD |  | Meter Sub address  Meter Sub address Code  Sub address Line 1 | C  C  C | V  V  V | | | X(17)  X(17) | Not used |

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# MOD Segment (Charge Modifiers: Not used at npower)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MOD | = |  |  |  | CHARGE MODIFIERS | C |  |  | Not used |
|  |  |  | SEQA |  | First Level Sequence Number | C | F | X(3) |  |
|  |  | + | SEQB |  | Second Level Sequence Number | C | F | X(3) |  |
|  |  | + | MCAT |  | Modifier Category | C | F | X(3) |  |
|  |  | + | MCDE |  | Modifier Code | C | F | X(3) |  |
|  |  | + | MVAL | :  : | Modifier Value  Modifier Value  Credit Indicator | C  C | F  V | X(4)  X(4) |  |

# ADJ Segment (Additional Adjustments: Not used at npower)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ADJ | = |  |  |  | ADDITIONAL ADJUSTMENTS | C |  |  | Not used |
|  |  |  | SEQA |  | First Level Sequence Number | C | F | X(3) |  |
|  |  | + | SEQB |  | Second Level Sequence Number | C | F | X(3) |  |
|  |  | + | ADJF | :  :  : | Adjustment Factor   |  | | --- | | Adjustment factor code | | Adjustment factor value | | Adjustment factor indicator | | C  C  C  C | F  V  F | X(3)  9V9(5)  X(4) |  |

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# MAN Segment (Meter Asset Number)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MAN | = |  |  |  | METER ADMINISTRATION NUMBER | C |  |  | MPAN details |
|  |  |  | SEQA |  | First Level Sequence Number | M | V | 9(10) | Count of CCD lines |
|  |  | + | SEQB |  | Second Level Sequence Number | M | V | 9(10) | Starts at 1 and is successively incremented by 1 for each 2nd level nesting of this segment. |
|  |  | + | MADN | :  :  :  :  : | Distribution Identifier  Unique Reference Number  Check Digit  Profile Type (class)  Meter/time switch details  Line Loss factor (LLF) | M  M  C  C  C  C | F  V  F  F  F  F | X(2)  X(10)  9(1)  9(2)  9(3)  9(3) | To identify the distribution business that serves the metering point. (Code list 56)  An unique reference number  Check digit  Identify the profile allocated to the Metering Point  The MTC associated to the MPAN  The LLF associated to the MPAN |
|  |  | + | MTNR |  | Meter Serial Number | C | V | X(35) | Not used |
|  |  | + | NDIG |  | Number of Digits | C | F | 9(1) | Not used |

# VAT Segment (Value Added Tax Summary)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| VAT | = |  |  |  | VALUE ADDED TAX | M |  |  | Totals for each VAT rating at invoice level |
|  |  |  | SEQA |  | First Level Sequence Number \* | M | V | 9(10) | Consecutive Count of number of VAT segments in the message |
|  |  | + | NDVT |  | Number of Days’ VAT \* | C | V | 9(3) | Total days at this VAT rate |
|  |  | + | PNDP |  | Percentage Qualifying for Lower/Zero Rate | C | V | 9(3)V9(3) | Relief % where applicable, shows as 0 otherwise |
|  |  | + | VATC |  | VAT Rate Category Code \* | M | F | X(1) | S = Standard  L = De-Min  A = Dom Decl applied  O = Outside the Scope  X = Exempt  Z = Zero |
|  |  | + | VATP |  | VAT Rate Percentage \* | M | V | 9(3)V9(3) | Vat rate corresponding to Category Code |
|  |  | + | UVLA | : | Total Charge for VAT Category before VAT  Total Charge before VAT \*  Credit line Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | Net total at VAT rate  “R” appears after the amount if the value is negative |
|  |  | + | UVTT | : | VAT Amount Payable  VAT Amount Payable \*  Credit line Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | VAT amount applied at VAT rate  “R” appears after the amount if the value is negative |
|  |  | + | UCSI | : | Total Charge for VAT Category inc VAT  Total Charge including VAT \*  Credit Line Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | Gross total at VAT rate  “R” appears after the amount if the value is negative |
|  |  | + | NRIL |  | Number of Item Lines | C | V | 9(4) | not used |
|  |  | + | RFLV |  | Reason for Lower/Zero VAT Rate | C | V | X(3) | not used |

# PRV (Prepayment Segment: Not used at npower)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRV | = |  |  |  | PREPAYMENT RECEIVED | C |  |  | Not used |
|  |  |  | SEQA |  | First Level Sequence Number | C | F | X(3) |  |
|  |  | + | PPAM | : | Payment Amount  Payment Amount  Credit Line Indicator | C  C | V  V | X(4)  X(4) |  |
|  |  | + | PADT |  | Prepayment Date | C | V | 9(6) |  |
|  |  | + | PAYB |  | Balance of Outstanding Payments Received | C | V | 9(10)V9(2) |  |

# BTL Segment (Bill Trailer)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BTL | = |  |  |  | BILL TRAILER | M |  |  | Totals for each invoice |
|  |  |  | PTOT | : | Total of Payment Details  Total of Payment Details  Credit Line Indicator | C  C  C | V  V | X(4)  X(4) | Not used, appears as fixed value of 0 |
|  |  | + | UVLT | : | Total Charge for Premises before VAT  Total Charge before VAT \*    Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | Sum of “Total charge” elements in CCD segments  “R” appears after the amount if the value is negative |
|  |  | + | UTVA | : | Bill Total VAT Amount Payable  Bill Total VAT Amount Payable \*    Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | Sum of “VAT amount payable” in VAT segments  ““R” appears after the amount if the value is negative |
|  |  | + | BABF | : | Balance Brought Forward  Balance Brought Forward  Credit Indicator | C  C  C | V  V | 9(10)V9(2)X(4) | Not used, appears as fixed value of 0 |
|  |  | + | TBTL | : | Total Bill Amount Payable  Total Bill Amount Payable \*    Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | Total amount charged for this invoice  (Sum of “total charge for premises before VAT” and “bill total VAT amount payable”)  ““R” appears after the amount if the value is negative |

# DEF Segment (Deferred Charges: Not used at npower)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DEF | = |  |  |  | DEFERRED CHARGES | C |  |  | Not used |
|  |  |  | MCDV |  | Monthly Charge Deferred Value | C | F | 9(10)V9(2) |  |

# MTR Segment (Message Trailer)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MTR | = |  |  |  | MESSAGE TRAILER | M |  |  |  |
|  |  |  | NOSG |  | Number of Segments in Message \* | M | V | 9(10) | Count of segments within the message, e.g. ‘15’ |

# MHD Segment (Message Header)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MHD | = |  |  |  | MESSAGE HEADER | M |  |  |  |
|  |  |  | MSRF |  | Message reference \* | M | V | 9(12) | Consecutive count of messages within the  transmission |
|  |  | + | TYPE | : | Type of message  Type \*  Version Number \* | M  M  M | F  F | X(6)  9(1) | ‘**UVATLR**’  ‘**3**’ for this version |

# VTS Segment (VAT Rate Summary)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| VTS | = |  |  |  | VAT RATE SUMMARY | M |  |  | Totals for each VAT rating at file level |
|  |  |  | SEQA |  | First Level Sequence Number \* | M | V | 9(10) | Consecutive count of VTS Segments in the  Message |
|  |  | + | VATC |  | VAT Rate Category Code \* | M | F | X(1) | S = Standard  L = De-Min  A = Dom Decl applied  O = Outside the Scope  X = Exempt  Z = Zero |
|  |  | + | VATP |  | VAT Rate Percentage \* | M | V | 9(3)V9(3) | Vat rate corresponding to Category Code |
|  |  | + | USDI | : | File Total for VAT Category (before VAT)  File Total for VAT Category (before VAT) \*  Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | Net total at VAT rate (summed from all VAT Segments)  “R” appears after the amount if the value is negative |
|  |  | + | VTVC | : | File Total VAT for VAT Category  File Total VAT for VAT Category \*  Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | VAT amount applied at VAT rate (summed from all VAT Segments)  “R” appears after the amount if the value is negative |
|  |  | + | UPSI | : | File Total for VAT Category (inc VAT)  File Total for VAT Category (inc VAT) \*  Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | File Total for VAT rate (File Total before VAT + Total VAT Amount)  “R” appears after the amount if the value is negative |

# MTR Segment (Message Trailer)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MTR | = |  |  |  | MESSAGE TRAILER | M |  |  |  |
|  |  |  | NOSG |  | Number of Segments in Message \* | M | V | 9(10) | Count of segments within the message, e.g. ‘3’ |

# MHD Segment (Message Header)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MHD | = |  |  |  | MESSAGE HEADER | M |  |  |  |
|  |  |  | MSRF |  | Message reference \* | M | V | 9(12) | Consecutive count of messages within the  transmission |
|  |  | + | TYPE | : | Type of message  Type \*  Version Number \* | M  M  M | F  F | X(6)  9(1) | ‘**UTLTLR**’  **3** For this version |

# TTL Segment (Utility Bill File Totals)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TTL | = |  |  |  | UTILITY BILL FILE TOTALS | M |  |  | Sum of totals for each invoice within the file |
|  |  |  | FASU | : | Bill File Total Amount before VAT  Bill File Total Amount before VAT \*  Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | Sum of File Total for VAT Category (Before VAT) in all VTS Segments  “R” appears after the amount if the value is negative |
|  |  | + | UVAT | : | Bill File Total VAT Amount  Bill File Total VAT Amount \*  Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | File total Amount VAT (all rates)  “R” appears after the amount if the value is negative |
|  |  | + | FTOP | : | File Total of Payment Details  File Total of Payment Details \*  Credit Indicator \* | C  C  C | V  V | 9(10)V9(2)  X(4) | File Total Amount (Including VAT)  “R” appears after the amount if the value is negative |
|  |  | + | FBAB | : | File Total Balance Brought Forward  File Total Balance Brought Forward  Credit Indicator | C |  | 9(10)V9(2)  X(4) | Not used |
|  |  | + | FPSU | : | Bill File Total Payable including VAT  Bill File Total Payable including VAT \*  Credit Indicator \* | M  M  C | V  V | 9(10)V9(2)  X(4) | File Total Amount (Including VAT)  “R” appears after the amount if the value is negative |
|  |  | + | FTNI |  | File Total Number of Invoices \* | M | V | 9(10) | Total Number of bills (UTLBIL messages) in transmission |

# MTR Segment (Message Trailer)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MTR | = |  |  |  | MESSAGE TRAILER | M |  |  |  |
|  |  |  | NOSG |  | Number of Segments in Message \* | M | V | 9(10) | Count of segments within the message, e.g. ‘3’ |

# END Segment (End of Transmission)

| SEGMENT |  |  | DATA  ELEMENT |  | DATA ELEMENT NAME | M/C | F/V | PICTURE | CONTENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| END | = |  |  |  | END OF TRANSMISSION | M |  |  |  |
|  |  |  | NMST |  | Number of Messages in Transmission \* | M | V | 9(10) | Count of messages within the file, e.g. ‘11’ |