841 Specifications/Technical Information

Functional Group=SP

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Specifications/Technical Information Transaction Set (841) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit or request specifications or technical information between trading partners. It can be used to transmit engineering change and engineering change requests. It can also be used to allow EDI trading partners the ability to exchange a complete or partial technical description of a product, process, service, etc. over the same path as any other EDI transaction. The detail area can include graphic, text, parametric, tabular, image, spectral, or audio data. A transmission includes identification information to assist the receiver in interpreting and utilizing the information included in the transaction.Further action as a consequence of the receipt and initial processing of the specification or other technical data may or may not require human intervention. The transmission and receipt of the data may require private agreement between the trading partners to automate the receipt of the data.The total transaction must be in the general form of all ASC X12 transactions so that an EDI computer system will be able to automatically recognize it as a Specification/Technical Information Transaction Set and pass it on for processing of the data itself. The transaction set is not media dependent.The detail area of the Specification/Technical Information Transaction Set provides a structure which allows for the exchange of a variety of specification information. For example, if the transaction contains information describing a complete assembly, it would be necessary to include the assembly model, the models for each of the individual parts, and the associated specifications. In the case of a process it may be necessary to transmit the specification of the product along with the specifications of the process and raw materials. This transaction set can also be linked to other transaction sets.This transaction set is not limited to a specific transmission protocol and uses other standards as applicable where they do not conflict with these requirements for specification transaction.

DLMS Note:

1. This 841W, Hazardous Material/Hazardous Waste Profile transaction is intended for use by DLA's Distribution Standard System and Component generating systems supporting Disposition Services processing hazardous material/waste for turn-in/disposal to DLA Disposition Services.

2. This transaction will be used to convey the information described in the Generator Communications (GenComm) Interface Standard Version 5.0.0. See DLM 4000.25, Volume 2, Appendix 9.

3. Users operating under the Defense Logistics Management Standards (DLMS) must reference the Unit of Issue and Purchase Unit Conversion Table and the Transportation Mode of Shipment Conversion Table which can be found on the Defense Enterprise Data Standards Office (DEDSO) Web site at http://www.dla.mil/dlms.

4. This entire DLMS Implementation Convention (IC) is considered an authorized DLMS enhancement authorized for implementation by modernized systems under DLMS migration. This transaction should be adopted during, or subsequent, to modernization when applicable to the Component's business process. Prior coordination is not required. Components should ensure that inclusion of this DLMS transaction does not cause inappropriate rejection of the transaction.

5. This revision to the DLMS IC incorporates Proposed DLMS Change (PDC) and Approved DLMS Changes (ADCs) listed. PDCs and ADCs are available from the DEDSO Web site: http://www.dla.mil/HQ/InformationOperations/DLMS/eLibrary/Changes/processchanges/

- ADC 1131, New DLMS Implementation Convention (IC) 841W, Hazardous Material/Hazardous Waste (HM/HW) Profile and New DLMS IC 856W, Hazardous Material/Hazardous Waste Shipment Status
- Administrative Update to Reflect Realignment to Recognize DLMS Program Office Completed on December 29, 2016
- Administrative Update to Reflect Realignment of DLMS Program Office to Enterprise Business Standards Office (EBSO) - Completed on January 27, 2020
- ADC 1367, Administrative Update to Convert Federal Notes to DLMS Notes within DLMS Implementation Conventions
- Administrative Update to Reflect Realignment of Enterprise Business Standards Office (EBSO) to Defense Enterprise Data Standards Office (DEDSO) - Completed on July 26, 2023
- ADC 1433, Data Element Additions to Update DLMS 841W, DLMS 856S, and DLMS 824R
- ADC 1503, DLMS Implementation Convention Notes Updates_MFR
- ADC 1524, Quarterly Administrative Updates

Heading:

	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	0100	ST	Transaction Set Header	M	1			Must use
	LOOP ID - SPI					**>1**		
	0200	SPI	Specification Identifier	M	1			Must use
*	0300	RDT	Revision Date/Time	O	>1			Not Used
*	0400	NTE	Note/Special Instruction	O	>1			Not Used
*	0500	X1	Export License	O	1			Not Used
*	0600	X2	Import License	O	1			Not Used
*	0700	X7	Customs Information	O	1			Not Used
*	0800	AMT	Monetary Amount	O	>1			Not Used

	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	LOOP ID - REF					**>1**		
	0900	REF	Reference Identification	O	1			Used
	1000	DTM	Date/Time Reference	O	>1			Used
*	1100	PER	Administrative Communications Contact	O	>1			Not Used
	LOOP ID - N1					**>1**		
	1200	N1	Name	O	1			Used
*	1300	N2	Additional Name Information	O	2			Not Used
*	1400	N3	Address Information	O	2			Not Used
*	1500	N4	Geographic Location	O	>1			Not Used
*	1600	REF	Reference Identification	O	>1			Not Used
*	1700	PER	Administrative Communications Contact	O	>1			Not Used

Detail:

	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	LOOP ID - HL					**>1**	**N2/0100L**	
	0100	HL	Hierarchical Level	M	1		N2/0100	Must use
	LOOP ID - SPI					**>1**		
	0200	SPI	Specification Identifier	O	1			Used
	0300	RDT	Revision Date/Time	O	>1			Used
*	0330	PRR	Problem Report	O	>1		C2/0330	Not Used
*	0340	PRT	Part Disposition	O	>1		C2/0340	Not Used
*	0350	PRS	Part Release Status	O	1		C2/0350	Not Used
	0400	LIN	Item Identification	O	1		C2/0400	Used
*	0460	PER	Administrative Communications Contact	O	>1			Not Used
*	0500	MSG	Message Text	O	>1			Not Used
	LOOP ID - N1					**>1**		
	0510	N1	Name	O	1			Used
	0520	N2	Additional Name Information	O	2			Used
	0530	N3	Address Information	O	2			Used
	0540	N4	Geographic Location	O	>1			Used
	0550	PER	Administrative Communications Contact	O	>1			Used
	0560	N9	Reference Identification	O	>1			Used
	LOOP ID - PID					**>1**		
	0600	PID	Product/Item Description	O	1			Used
	0650	PKD	Packaging Description	O	>1			Used
	0700	QTY	Quantity	O	>1			Used
	0740	MEA	Measurements	O	>1			Used
*	0750	UIT	Unit Detail	O	>1			Not Used
	0760	LOC	Location	O	1			Used
*	0770	PWK	Paperwork	O	>1			Not Used
	LOOP ID - PKG					**>1**		
	0780	PKG	Marking, Packaging, Loading	O	1			Used
*	0790	MEA	Measurements	O	>1			Not Used
	LOOP ID - REF					**>1**		
	0800	REF	Reference Identification	O	1			Used
*	0900	DTM	Date/Time Reference	O	>1			Not Used
*	1000	PER	Administrative Communications Contact	O	>1			Not Used

	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	LOOP ID - LX					**>1**		
	1030	LX	Assigned Number	O	1			Used
*	1050	LIN	Item Identification	O	1			Not Used
*	1070	TMD	Test Method	O	1			Not Used
	1100	MEA	Measurements	M	>1			Must use
	1120	PSD	Physical Sample Description	O	>1			Used
*	1140	SPS	Sampling Parameters for Summary Statistics	O	>1			Not Used
*	1200	DTM	Date/Time Reference	O	>1			Not Used
*	1300	REF	Reference Identification	O	>1			Not Used
	*** LOOP ID - EFI**					**>1**		
*	1400	EFI	Electronic Format Identification	O	1			Not Used
*	1600	BIN	Binary Data	O	1			Not Used
	LOOP ID - CID					**>1**	**C2/1700L**	
	1700	CID	Characteristic/Class ID	O	1		C2/1700	Used
	1800	UIT	Unit Detail	O	1			Used
*	1900	TMD	Test Method	O	>1			Not Used
*	2000	PSD	Physical Sample Description	O	1			Not Used
*	2010	CSS	Conditional Sampling Sequence	O	1		N2/2010	Not Used
*	2100	SPS	Sampling Parameters for Summary Statistics	O	1			Not Used
	2200	MSG	Message Text	O	>1			Used
	*** LOOP ID - MEA**					**>1**		
*	2300	MEA	Measurements	O	1			Not Used
*	2400	DTM	Date/Time Reference	O	>1			Not Used
*	2500	REF	Reference Identification	O	>1			Not Used
	*** LOOP ID - STA**					**>1**		
*	2600	STA	Statistics	O	1			Not Used
*	2700	DTM	Date/Time Reference	O	>1			Not Used
*	2800	REF	Reference Identification	O	>1			Not Used
	*** LOOP ID - CSF**					**>1**	**CN2/2820L**	
*	2820	CSF	Conditional Sampling Frequency	O	1		CN2/2820	Not Used
	*** LOOP ID - LS**					**1**		
*	2830	LS	Loop Header	O	1			Not Used
	*** LOOP ID - CID**					**>1**	**CN2/2840L**	
*	2840	CID	Characteristic/Class ID	O	1		CN2/2840	Not Used
*	2850	MEA	Measurements	O	1		C2/2850	Not Used
*	2860	STA	Statistics	O	1		C2/2860	Not Used
*	2870	LE	Loop Trailer	M	1			Not Used
	*** LOOP ID - EFI**					**>1**		
*	2900	EFI	Electronic Format Identification	O	1			Not Used
*	3100	BIN	Binary Data	O	1			Not Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	SE	Transaction Set Trailer	M	1			Must use

Notes:

2/0100L To be meaningful, at least one of the SPI, PID, REF, MEA, EFI or CID loops must be present with each occurrence of the HL loop.

2/0100 To be meaningful, at least one of the SPI, PID, REF, MEA, EFI or CID loops must be present with each occurrence of the HL loop.

2/2010 The sampling sequence specified in the CSS segment will take precedence over any other sampling rate (PSD03, PSD09, SPS06,

CSF02, and CSF03) from the point the CSS01 event occurs until the specified sequence is completed.
If no other sampling is specified, then only the sampling indicated in this segment is performed when the CSS01 event occurs.

2/2820L The sampling rate specified is the CSF segment. It would take precedence over the normal sampling rate specified in PSD03 while the conditions of the CSF segment are satisfied, but would NOT take precedence over the sampling sequence activated by the proposed CSS segment.
If no other sampling rate is specified, then the only sampling indicated in the CSF segment is performed while the CSF conditions are met. Sampling will cease when the conditions are no longer met.
Conditional values specified in DE 740 (Range Minimum) will be interpreted as "greater than or equal to this value." Values specified in DE 741 (Range Maximum) will be interpreted to mean "less than or equal to this value."

2/2820 The sampling rate specified is the CSF segment. It would take precedence over the normal sampling rate specified in PSD03 while the conditions of the CSF segment are satisfied, but would NOT take precedence over the sampling sequence activated by the proposed CSS segment.
If no other sampling rate is specified, then the only sampling indicated in the CSF segment is performed while the CSF conditions are met. Sampling will cease when the conditions are no longer met.
Conditional values specified in DE 740 (Range Minimum) will be interpreted as "greater than or equal to this value." Values specified in DE 741 (Range Maximum) will be interpreted to mean "less than or equal to this value."

2/2840L Either the MEA segment or the STA segment must occur, but not both.

2/2840 Either the MEA segment or the STA segment must occur, but not both.

Comments:

2/0330 The PRR segment contains the reason for an engineering change.

2/0340 The PRT segment is used to describe what should be done with the parts or assemblies specified in the preceding SPI segment.

2/0350 The PRS segment is used to tell the current status of the parts specified in the SPI segment required to make the change.

2/0400 The repeated pairs of 234 and 234 data elements in the LIN segment can be used to list where this modified part or assembly is used.

2/1700L The CID segment may be used to define either a general class of properties, such as physical properties, or an individual property within a class. The CID loop allows the user the ability to define specifications such as the properties of the item or class, the environmental conditions under which the specifications apply, the test methods to be used, and other parameters related to properties within the current HL hierarchical level.

2/1700 The CID segment may be used to define either a general class of properties, such as physical properties, or an individual property within a class. The CID loop allows the user the ability to define specifications such as the properties of the item or class, the environmental conditions under which the specifications apply, the test methods to be used, and other parameters related to properties within the current HL hierarchical level.

2/2820L Repetitions of the CSF loop allow several frequency changes (and the conditions that would trigger those changes) to be specified. If the conditions are such that several CSF values are activated at the same time, the value with the highest sampling rate shall prevail.

2/2820 Repetitions of the CSF loop allow several frequency changes (and the conditions that would trigger those changes) to be specified. If the conditions are such that several CSF values are activated at the same time, the value with the highest sampling rate shall prevail.

2/2840L The CID loop within the CSF loop is used to specify the conditions that will trigger activation of the conditional value in the CSF segment.
Repetitions of the CID loop will have an implied logical AND between the conditions set in each iteration.

2/2840 The CID loop within the CSF loop is used to specify the conditions that will trigger activation of the conditional value in the CSF segment.
Repetitions of the CID loop will have an implied logical AND between the conditions set in each iteration.

2/2850 The elements of the CID segment identify the conditional property. If the property is a measurement from within the manufacturing process of a plant environment, rather than the product, the segment also identifies the location where the measurements are to be observed.

2/2860 If the condition is based on single test measurements, the MEA segment is used to specify the units of measure, and the open or closed numeric range of the conditional test.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Must use

Purpose: To indicate the start of a transaction set and to assign a control number

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ST01	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set **Code Name** 841 Specifications/Technical Information	M	ID	3/3	Must use	1
ST02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use	1
ST03	1705	**Implementation Convention Reference** **Description:** Reference assigned to identify Implementation Convention **DLMS Note:** *Use to indicate this transmission uses the DLMS IC 841W. Enter the DLMS IC (e.g., 004030F841W0WA00).*	O	AN	1/35	Used	1

SPI Specification Identifier

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: SPI	Elements: 1

User Option (Usage): Must use

Purpose: To provide a description of the included specification or technical data items

Syntax Rules:

1. P0203 - If either SPI02 or SPI03 is present, then the other is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SPI01	786	**Security Level Code** **Description:** Code indicating the level of confidentiality assigned by the sender to the information following	M	ID	2/2	Must use	1

Code	Name
ZZ	Mutually Defined

DLMS Note:

Use code "ZZ" for this data element to satisfy mandatory X12 syntax requirements.

REF Reference Identification

Pos: 0900	Max: 1
Heading - Optional	
Loop: REF	Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **Code Name** V0 Version	M	ID	2/3	Must use	1
REF02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier **DLMS Note:** *Use to identify the Generator's Software Release Version Number. Data value restricted to a maximum of 50 characters.*	X	AN	1/50	Used	1

DTM Date/Time Reference

Pos: 1000	Max: >1
Heading - Optional	
Loop: REF	Elements: 4

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
DTM01	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time **Code Name** 097 Transaction Creation	M	ID	3/3	Must use	1
DTM02	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	DT	8/8	Used	1
DTM03	337	**Time** **Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) **DLMS Note:** *Express time as HHMM.*	X	TM	4/8	Used	1
DTM04	623	**Time Code** **Description:** Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow **Code Name** UT Universal Time Coordinate	O	ID	2/2	Used	1

N1 Name

Pos: 1200	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

DLMS Note:

Must use this 1/N1/1200 loop to identify the organization originating the transaction set.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code Name** HZ Hazardous Waste Generator **DLMS Note:** *Use to identify the File Transfer DoDAAC.*	M	ID	2/3	Must use	1
N103	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) **Code Name** 10 Department of Defense Activity Address Code (DODAAC)	X	ID	1/2	Must use	1
N104	67	**Identification Code** **Description:** Code identifying a party or other code	X	AN	2/80	Must use	1
N106	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code Name** FR Message From	O	ID	2/3	Must use	1

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

DLMS Note:

1. The transaction set hierarchical data structure is address information, followed by Waste Profile Sheet information, followed by Composition Subsection and EPA Waste Number Subsection as applicable.

2. Use the first 2/HL/0100 loop iteration to provide transaction set recipient address information. All other address information is carried in the Waste Profile Sheet loop.

3. Use the second 2/HL/0100 loop iteration to identify the Waste Profile Sheet (WPS) section information.

4. Use an additional 2/HL/0100 loop iteration to identify the Chemical Composition Subsection (Child of the WPS Section) as applicable.

5. Use an additional 2/HL/0100 loop iteration to identify the Environmental Protection Agency (EPA) Waste Number Subsection (Child of the WPS Section) as applicable.

6. If transmitting multiple WPS sheets, use additional loops as needed preserving the parent child relationship ensuring that the Chemical Composition and EPA Waster Number Subsections are aligned with the applicable WPS loop.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL01	628	**Hierarchical ID Number** **Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure **DLMS Note:** *In the first 2/HL/0100 loop iteration, cite numeric 1. In each subsequent loop iteration, increase incrementally by 1.*	M	AN	1/12	Must use	1
HL02	734	**Hierarchical Parent ID Number** **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to **DLMS Note:** *1. Use to provide association (parent/child relationship) between the Chemical Composition and EPA Waste Number Subsections with the applicable Waste Profile Sheet. Use in the subordinate (child) loop to identify the HL01 ID Number of the next higher parent loop.* *2. Not applicable to the address loop.*	O	AN	1/12	Used	1

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use	1

Description: Code defining the characteristic of a level in a hierarchical structure

DLMS Note: *The following informational loops are applicable to this transaction. When all loops are used, the HL sequence is V (address), HP (Waste Profile Sheet), KB (Chemical Composition Subsection), and HE (EPA Waste Number Subsection). The KB and HE loops are used as applicable.*

Code	Name
V	Address Information
	DLMS Note:
	Use to identify the address loop which specifies the transaction recipient. Use only one address loop per transaction.
HE	EPA Waste Number Subsection
HP	Waste Profile Sheet
KB	Chemical
	DLMS Note:
	1. Use to identify the Chemical Composition Subsection.
	2. Approved for use in X12 version 4040.
ST	State
	DLMS Note:
	Approved for use in X12 version 4040.

SPI Specification Identifier

Pos: 0200	Max: 1
Detail - Optional	
Loop: SPI	Elements: 3

User Option (Usage): Used

Purpose: To provide a description of the included specification or technical data items

Syntax Rules:

1. P0203 - If either SPI02 or SPI03 is present, then the other is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SPI01	786	**Security Level Code** **Description:** Code indicating the level of confidentiality assigned by the sender to the information following **Code Name** 99 Government Defined (Trading Partner Level)	M	ID	2/2	Must use	1
SPI02	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **Code Name** WPN Waste Disposal Number **DLMS Note:** *1. Use in the HL03 Code HP loop.*	X	ID	2/3	Used	1
SPI03	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/50	Used	1

RDT Revision Date/Time

Pos: 0300	Max: >1
Detail - Optional	
Loop: SPI	Elements: 2

User Option (Usage): Used

Purpose: To specify the revision level of the electronic data item

Syntax Rules:

1. C0102 - If RDT01 is present, then RDT02 is required.
2. L030405 - If RDT03 is present, then at least one of RDT04 or RDT05 is required.
3. C0605 - If RDT06 is present, then RDT05 is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
RDT03	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time **Code** **Name** 585 Report **DLMS Note:** *Use in the HL03 Code HP loop to identify the Waste Profile Established Date.*	O	ID	3/3	Used	1
RDT04	373	**Date** **Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	DT	8/8	Used	1

LIN Item Identification

Pos: 0400	Max: 1
Detail - Optional	
Loop: SPI	Elements: 2

User Option (Usage): Used

Purpose: To specify basic item identification data

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN02	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code** **Name** JP Package Type Code **DLMS Note:** *Use in the HL03 Code HP loop. Insert “BULK”, “DRUM”, or a brief narrative.*	M	ID	2/2	Must use	1
LIN03	234	**Product/Service ID** **Description:** Identifying number for a product or service	M	AN	1/48	Must use	1

N1 Name

Pos: 0510	Max: 1
Detail - Optional	
Loop: N1	Elements: 5

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code Name** HZ Hazardous Waste Generator **DLMS Note:** *Use in the HL03 Code HP loop to identify the Generator Name. Use the N102 to provide the facility name; use the N201 to identify the Technical Contact Title; use the N3 and N4 to provide the facility address.* ZD Party to Receive Reports **DLMS Note:** *Use in the HL03 Code V loop to identify the DLA Disposition Services Field Office RIC as the transaction recipient.*	M	ID	2/3	Must use	1
N102	93	**Name** **Description:** Free-form name	X	AN	1/60	Used	1
N103	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) **Code Name** M4 Department of Defense Routing Identifier Code (RIC)	X	ID	1/2	Used	1
N104	67	**Identification Code** **Description:** Code identifying a party or other code	X	AN	2/80	Used	1
N106	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code Name** TO Message To **DLMS Note:** *Use in the HL03 Code V loop with N101 Code ZD to identify that the DLA Disposition Services Field*	O	ID	2/3	Used	1

Code	Name
	Office RIC is the transaction recipient.

N2 Additional Name Information

Pos: 0520	Max: 2
Detail - Optional	
Loop: N1	Elements: 1

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N201	93	**Name** **Description:** Free-form name **DLMS Note:** *Use in the HL03 Code HP loop with N101 Code HZ to identify the Technical Contact Title at the facility.*	M	AN	1/60	Must use	1

N3 Address Information

Pos: 0530	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

DLMS Note:

1. Use to provide free form lines of an address.

2. Repeat the segment when needing to provide line 3 of an address.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N301	166	**Address Information** **Description:** Address information **DLMS Note:** *1. Use in the HL03 Code HP loop with N101 Code HZ to identify line 1 of the facility address.* *2. Use when needing to provide line 3 of an address in a second instance of the N3.*	M	AN	1/55	Must use	1
N302	166	**Address Information** **Description:** Address information **DLMS Note:** *Use in the HL03 Code HP loop with N101 Code HZ to identify line 2 of the facility address.*	O	AN	1/55	Used	1

N4 Geographic Location

Pos: 0540	Max: >1
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N401	19	**City Name** **Description:** Free-form text for city name **DLMS Note:** *Use in the HL03 Code HP loop with N101 Code HZ.*	O	AN	2/30	Used	1
N402	156	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency **DLMS Note:** *Use in the HL03 Code HP loop with the N101 Code HZ.*	X	ID	2/2	Used	1
N403	116	**Postal Code** **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) **DLMS Note:** *Use in the HL03 Code HP loop with the N101 Code HZ.*	O	ID	3/15	Used	1

PER Administrative Communications Contact

Pos: 0550	Max: >1
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PER01	366	**Contact Function Code** **Description:** Code identifying the major duty or responsibility of the person or group named **Code Name** BL Technical Department **DLMS Note:** *Use in the HL03 Code HP loop to identify the Technical Contact Name. This name is associated to the Technical Contact Title in the N201.* CE Certifier **DLMS Note:** *Use in the HL03 Code HP loop. This name is associated with the Generator name (N01 Code HZ).*	M	ID	2/2	Must use	1
PER02	93	**Name** **Description:** Free-form name	O	AN	1/60	Used	1
PER03	365	**Communication Number Qualifier** **Description:** Code identifying the type of communication number **Code Name** TE Telephone **DLMS Note:** *Use in the HL03 Code HP loop with PER01 Code BL.*	X	ID	2/2	Used	1
PER04	364	**Communication Number** **Description:** Complete communications number including country or area code when applicable	X	AN	1/256	Used	1
PER05	365	**Communication Number Qualifier** **Description:** Code identifying the type of communication number **Code Name** EX Telephone Extension **DLMS Note:** *Use in the HL03 Code HP loop with PER01 Code BL.*	X	ID	2/2	Used	1
PER06	364	**Communication Number** **Description:** Complete communications number including country or area code	X	AN	1/256	Used	1

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
		when applicable					

N9 Reference Identification

Pos: 0560	Max: >1
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N901	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification	M	ID	2/3	Must use	1
		Code Name ABO State Hazardous Waste Entity Identifier **DLMS Note:** *Use in the HL03 Code HP loop to identify the Generator State Identification.* CAM U.S. Environmental Protection Agency (EPA) Identification Number **DLMS Note:** *1. Use in the HL03 Code HP loop to identify the Generator US EPA Identification.* *2. Approved for use in X12 version 4040.*					
N902	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/50	Used	1

PID Product/Item Description

Pos: 0600	Max: 1
Detail - Optional	
Loop: PID	Elements: 3

User Option (Usage): Used

Purpose: To describe a product or process in coded or free-form format

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PID01	349	**Item Description Type** **Description:** Code indicating the format of a description **Code Name** F Free-form	M	ID	1/1	Must use	1
PID02	750	**Product/Process Characteristic Code** **Description:** Code identifying the general class of a product or process characteristic **Code Name** WT Waste **DLMS Note:** *Use in the HL03 Code HP loop to identify the Name of the Waste.* CCN Common Chemical Name **DLMS Note:** *Use in the HL03 Code KB loop.*	O	ID	2/3	Used	1
PID05	352	**Description** **Description:** A free-form description to clarify the related data elements and their content **DLMS Note:** *Enter "PSN1", "PSN2", and "PSN3" as required to identify the 80 character increments of the Proper Shipping Name.*	X	AN	1/80	Used	1

PKD Packaging Description

Pos: 0650	Max: >1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Used

Purpose: To specify a package description and other information

Syntax Rules:

1. C0201 - If PKD02 is present, then PKD01 is required.
2. C0302 - If PKD03 is present, then PKD02 is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PKD01	103	**Packaging Code** **Description:** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required **Code** **Name** MXD Mixed **DLMS Note:** *Use in the HL03 Code HP loop to identify the Mode of Collection.*	X	AN	3/5	Used	1
PKD02	822	**Source Subqualifier** **Description:** A reference that indicates the table or text maintained by the Source Qualifier	X	AN	1/15	Used	1

QTY Quantity

Pos: 0700	Max: >1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Used

Purpose: To specify quantity information

Syntax Rules:

1. R0204 - At least one of QTY02 or QTY04 is required.
2. E0204 - Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
QTY01	673	**Quantity Qualifier** **Description:** Code specifying the type of quantity	M	ID	2/2	Must use	1
		Code **Name** TT Total Production Volume **DLMS Note:** *Use in the HL03 Code HP loop to identify the Projected Annual Volume.* XL Approximate Number of Units Projected **DLMS Note:** *Use in the HL03 Code HP loop to identify the Projected Annual Units.*					
QTY02	380	**Quantity** **Description:** Numeric value of quantity	X	R	1/15	Used	1

MEA Measurements

Pos: 0740	Max: >1
Detail - Optional	
Loop: PID	Elements: 4

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0504 - If MEA05 is present, then MEA04 is required.
3. C0604 - If MEA06 is present, then MEA04 is required.
4. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
5. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

DLMS Note:

Use in the HP loop to identify the quantities associated with the hazardous waste/hazardous material.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
MEA02	738	**Measurement Qualifier** **Description:** Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used	1
		Code **Name** AK Volatile Organic Compounds (VOCs) HAL Total Halogens PCB Polychlorinated Biphenyl (PCB) PHE Phenol **DLMS Note:** *Approved for use in X12 version 5030.* QUR Reportable Quantity **DLMS Note:** *Cite the associated DoT unit of issue in the MEA04. For Disposition Services, identify the DoT Reportable Quantity in Pounds.* ZCR Chromium ZCU Copper ZNI Nickel ZZN Zinc					
MEA03	739	**Measurement Value** **Description:** The value of the measurement	X	R	1/20	Used	1
MEA04	C001	**Composite Unit of Measure** **Description:** To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Used	1

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
		DLMS Note: *Use to identify the value of the units expressed in MEA03. For example, if the percent of copper is 50, cite 50 in MEA03 and P1 in MEA04.* **Comments:** 1. If C001-02 is not used, its value is to be interpreted as 1. 2. If C001-03 is not used, its value is to be interpreted as 1. 3. If C001-05 is not used, its value is to be interpreted as 1. 4. If C001-06 is not used, its value is to be interpreted as 1. 5. If C001-08 is not used, its value is to be interpreted as 1. 6. If C001-09 is not used, its value is to be interpreted as 1. 7. If C001-11 is not used, its value is to be interpreted as 1. 8. If C001-12 is not used, its value is to be interpreted as 1. 9. If C001-14 is not used, its value is to be interpreted as 1. 10. If C001-15 is not used, its value is to be interpreted as 1.					
MEA04-01	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **DLMS Note:** *DLMS users see the Unit of Issue and Purchase Unit Conversion table for code conversions between X12 and DOD.*	M	ID	2/2	Must use	1

Code	Name
19	Tank Truck
	DLMS Note: *DoT equivalent code is TT.*
1P	Tank Car
	DLMS Note: *DoT equivalent code is TC.*
59	Parts Per Million
	DLMS Note: *GenComm equivalent code is PPM.*
61	Parts Per Billion
	DLMS Note: *GenComm equivalent code is PPB.*
BR	Barrel
	DLMS Note: *DoT equivalent codes are DF, DM, and DW. Must use with the MEA09.*
BX	Box
	DLMS Note: *DoT equivalent codes are CF, CM, and CW. Must use with the MEA09.*
CL	Cylinder
	DLMS Note:

Code	Name
	DoT equivalent code is CY.
NA	Milligrams per Kilogram
	DLMS Note: *GenComm equivalent code is MG/KG.*
NC	Car
	DLMS Note: *DoT equivalent code is HG.*
P1	Percent
	DLMS Note: *GenComm equivalent code is PER.*
TK	Tank
	DLMS Note: *DoT equivalent code is TP.*

MEA09 752 **Surface/Layer/Position Code** O ID 2/2 Used 1

Description: Code indicating the product surface, layer or position that is being described

Code	Name
SD	Relative Position 48
	DLMS Note: *1. Use with MEA04-01 Code BX (DoT Code CF) to denote Fiber or Plastic Box, Carton, Case.* *2. Use with MEA04-01 Code BR (DoT Code DF) to denote Fiberboard or Plastic Drum, Barrel, Keg.*
SE	Relative Position 49
	DLMS Note: *1. Use with MEA04-01 Code BX (DoT Code CM) to denote Metal Box, Carton, Case.* *2. Use with MEA04-01 Code BR (DoT Code DM) to denote Metal Drum, Barrel, Keg.*
SF	Relative Position 50
	DLMS Note: *1. Use with MEA04-01 Code BX (DoT Code CW) to denote Wood Box, Carton, Case.* *2. Use with MEA04-01 Code BR (DoT Code DW) to denote Wooden Drum, Barrel, Keg.*

LOC Location

Pos: 0760	Max: 1
Detail - Optional	
Loop: PID	Elements: 3

User Option (Usage): Used

Purpose: To describe the location in space and time of the axis of an item relative to an origin axis; Euclidean geometry has been assumed with orthogonal axes; the sequence of axes has been chosen in the customary sequence of X, Y, and Z, however, it is possible to just use two-dimensional space rather than three-dimensional space

Syntax Rules:

1. P0607 - If either LOC06 or LOC07 is present, then the other is required.
2. C1110 - If LOC11 is present, then LOC10 is required.
3. C1312 - If LOC13 is present, then LOC12 is required.
4. C1514 - If LOC15 is present, then LOC14 is required.
5. C1716 - If LOC17 is present, then LOC16 is required.
6. C1918 - If LOC19 is present, then LOC18 is required.
7. C2120 - If LOC21 is present, then LOC20 is required.
8. P2223 - If either LOC22 or LOC23 is present, then the other is required.

Semantics:

1. LOC01 through LOC03 describe the item.
2. LOC04 is a description of the positional reference point on the item.
3. LOC05 through LOC08 describe the environment in which the item is placed.
4. LOC09 is a description of the positional reference point in the environment. This is the origin of the original axes.
5. LOC10 through LOC15 describe the translation in the three-dimensional space of the axes with respect to the original axes.
6. LOC10 is the principal X axis of the item.
7. LOC10 through LOC14 describe the principal XY plane of the item.
8. LOC16 is measured with respect to the XY plane around the X axis.
9. LOC18 is measured with respect to the YZ plane around the Y axis.
10. LOC20 is measured with respect to the ZX plane around the Z axis.

Comments:

1. It is possible to translate the axis system in zero, one, two, or three axial directions.
2. The temporal measurements would be used, for example, to describe the positions of a robot head. They may be specified as t1, t2... or n1, n2...etc. Or, they may be specified in time units such as 0, 0.8, 1.6, etc. They may also represent positions where they would be specified as p1, p2, etc.
3. All angular positions of an axis vector are measured in a counter-clockwise rotation around the original axis vector, looking from the positive direction of the vector towards the origin. The angular unit is specified by the corresponding unit of measurement, as in LOC17, LOC19, and LOC21.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LOC01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **Code** **Name** PHC Process Handling Code **DLMS Note:** *Use in the HL03 Code HP loop to identify the Process Generating Waste. Enter the Process Source Code in LOC02 and the Process Generating Waste Description in LOC03.*	M	ID	2/3	Must use	1
LOC02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/50	Must use	1

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
		DLMS Note: *Provide a three-character value found in appendix 2.20. If code is unknown to the sender, use "PGW" to satisfy syntax requirements.*					
LOC03	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	O	AN	1/80	Used	1

PKG Marking, Packaging, Loading

Pos: 0780	Max: 1
Detail - Optional	
Loop: PKG	Elements: 4

User Option (Usage): Used

Purpose: To describe marking, packaging, loading, and unloading requirements

Syntax Rules:

1. R040506 - At least one of PKG04, PKG05 or PKG06 is required.
2. C0403 - If PKG04 is present, then PKG03 is required.
3. C0501 - If PKG05 is present, then PKG01 is required.

Semantics:

1. PKG04 should be used for industry-specific packaging description codes.

Comments:

1. Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
2. If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.
3. Use PKG03 to indicate the organization that publishes the code list being referred to.
4. Special marking or tagging data can be given in PKG05 (description).

DLMS Note:

Use in the HP loop to identify the Proper Shipping Name. If the Proper Shipping Name is greater than 80 characters, enter "PSN1" in the PKG04 to identify the first 80 characters of the Proper shipping Name, and then repeat the PKG loop up to seven more times. For each PKG after PSN1 increment by one (i.e. PSN2) and provide the next 80 characters of the name. If the proper shipping name is between 560 and 600 characters, provide PKG04 of "PSN8" and no more than the final forty characters in PKG05.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PKG01	349	**Item Description Type** **Description:** Code indicating the format of a description **Code Name** F Free-form	X	ID	1/1	Used	1
PKG03	559	**Agency Qualifier Code** **Description:** Code identifying the agency assigning the code values **Code Name** DL Defense Logistics Agency	X	ID	2/2	Used	1
PKG04	754	**Packaging Description Code** **Description:** A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product **DLMS Note:** *Enter "PSN1", "PSN2", "PSN3", "PSN4", "PSN5", "PSN6", "PSN7", up to "PSN8" as required to identify the 80 character increments of the Proper Shipping Name, up to a maximum of 600 characters.*	X	AN	1/7	Used	1
PKG05	352	**Description** **Description:** A free-form description to clarify the related data elements and their	X	AN	1/80	Used	1

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
		content					

REF Reference Identification

Pos: 0800	Max: 1
Detail - Optional	
Loop: REF	Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use	1

Description: Code qualifying the Reference Identification

Code	Name
8D	Chemical Abstract Service Registry Number
	DLMS Note: *Use in the HL03 Code KB loop.*
HD	Department of Transportation Hazardous Number
	DLMS Note: *Use in the HL03 Code HP loop to identify the Hazard Class.*
HP	Pack & Hold Invoice Number
	DLMS Note: *Use in the HL03 Code HP loop to identify the Demilitarization Code.*
P9	Page Number
	DLMS Note: *Use in the HL03 Code HP loop to identify the Emergency Response Guide Page Number.*
RE	Release Number
	DLMS Note: *Use in the HL03 Code HP loop to identify the Edition Year of the Emergency Response Guide.*
UN	United Nations Hazardous Classification Number
	DLMS Note: *Use in the HL03 Code HP loop to identify the UN/NA Number.*
CAL	U.S. Environmental Protection Agency (EPA) Hazardous Waste Code
	DLMS Note: *1. Use in the HL03 Code HE loop.* *2. Approved for use in X12 version 4040.*
DEM	Demilitarization Code
	DLMS Note: *1. Use in the HL03 Code HP loop.* *2. Approved for use in version 8060.*
PGC	Packing Group Code
	DLMS Note: *Use in the HL03 Code HP loop (e.g., I, II, III).*
SWC	State Waste Code
	DLMS Note: *1. Use in the HL03 Code ST loop to identify the State/County Hazardous Waste Code.*

		Code	Name					
			2. Approved for use in version 8060.					
REF02	127		**Reference Identification**	X	AN	1/50	Used	1
			Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					

LX Assigned Number

Pos: 1030	Max: 1
Detail - Optional	
Loop: LX	Elements: 1

User Option (Usage): Used

Purpose: To reference a line number in a transaction set

DLMS Note:

Use in the HP loop to identify the Other Chemical Component Description (2/PSD08/1120) and associated quantity/UOM (2/MEA/1100).

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LX01	554	**Assigned Number** **Description:** Number assigned for differentiation within a transaction set **DLMS Note:** *In the first 2/LX/1030 loop iteration, cite numeric 1. In each subsequent loop iteration, increase incrementally by 1.*	M	N0	1/6	Must use	1

MEA Measurements

Pos: 1100	Max: >1
Detail - Mandatory	
Loop: LX	Elements: 3

User Option (Usage): Must use

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0504 - If MEA05 is present, then MEA04 is required.
3. C0604 - If MEA06 is present, then MEA04 is required.
4. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
5. E0803 - Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

DLMS Note:

Use in the HP loop to identify the quantities associated with the hazardous waste/hazardous material.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
MEA02	738	**Measurement Qualifier** **Description:** Code identifying a specific product or process characteristic to which a measurement applies **Code** **Name** OTE Others Each **DLMS Note:** *Use with Other Chemical Component Description at 2/PSD08/1120 to identify the quantity of the Other Chemical Component.*	O	ID	1/3	Used	1
MEA03	739	**Measurement Value** **Description:** The value of the measurement	X	R	1/20	Used	1
MEA04	C001	**Composite Unit of Measure** **Description:** To identify a composite unit of measure(See Figures Appendix for examples of use) **DLMS Note:** *Use to identify the value of the units expressed in MEA03. For example, if the percent of copper is 50, cite 50 in MEA03 and P1 in MEA04.* **Comments:** 1. If C001-02 is not used, its value is to be interpreted as 1. 2. If C001-03 is not used, its value is to be interpreted as 1. 3. If C001-05 is not used, its value is to be interpreted as 1. 4. If C001-06 is not used, its value is to be	X	Comp		Used	1

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
		interpreted as 1. 5. If C001-08 is not used, its value is to be interpreted as 1. 6. If C001-09 is not used, its value is to be interpreted as 1. 7. If C001-11 is not used, its value is to be interpreted as 1. 8. If C001-12 is not used, its value is to be interpreted as 1. 9. If C001-14 is not used, its value is to be interpreted as 1. 10. If C001-15 is not used, its value is to be interpreted as 1.					
MEA04-01	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **DLMS Note:** *DLMS users see the Unit of Issue and Purchase Unit Conversion table for code conversions between X12 and DOD.*	M	ID	2/2	Must use	1

Code	Name
59	Parts Per Million
	DLMS Note:
	GenComm equivalent code is PPM.
61	Parts Per Billion
	DLMS Note:
	GenComm equivalent code is PPB.
KL	Kilograms/Meter
ML	Milliliter
NA	Milligrams per Kilogram
	DLMS Note:
	GenComm equivalent code is MG/KG.
P1	Percent
	DLMS Note:
	GenComm equivalent code is PER.

PSD Physical Sample Description

Pos: 1120	Max: >1
Detail - Optional	
Loop: LX	Elements: 1

User Option (Usage): Used

Purpose: To define the physical sample parameters associated with a test resulting in discrete measurements

Syntax Rules:

1. P0304 - If either PSD03 or PSD04 is present, then the other is required.
2. E0309 - Only one of PSD03 or PSD09 may be present.

Comments:

1. PSD08 can provide a more complete description of the physical sampling location.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PSD08	352	**Description** **Description:** A free-form description to clarify the related data elements and their content **DLMS Note:** *Use in the HP loop to identify the Other Chemical Component Description.*	O	AN	1/80	Used	1

CID Characteristic/Class ID

Pos: 1700	Max: 1
Detail - Optional	
Loop: CID	Elements: 5

User Option (Usage): Used

Purpose: To specify the general class or specific characteristic upon which test results are being reported or are to be taken

Syntax Rules:

1. R01020405 - At least one of CID01, CID02, CID04 or CID05 is required.
2. P0304 - If either CID03 or CID04 is present, then the other is required.
3. C060304 - If CID06 is present, then CID03 and CID04 are required.
4. L070405 - If CID07 is present, then at least one of CID04 or CID05 is required.

Comments:

1. CID06 specifies the individual code list of the agency specified in CID03.
2. CID07 refers to whether or not the characteristic identified in CID04 or CID05 or both is affected by the product change. If it is affected, the value is "Y". A value of "N" is used when it is known that it will not be affected. Any other value indicates it is indeterminate.

DLMS Note:

Use in the HL03 Codes HP, KB, and HE loops to identify various hazardous materials/hazardous waste material characteristics.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
CID01	738	**Measurement Qualifier** **Description:** Code identifying a specific product or process characteristic to which a measurement applies **Code Name** RB Range Value **DLMS Note:** *Use in the HL03 Code KB loop to identify the chemical range in the CID05.* CON Concentration **DLMS Note:** *Use in the HL03 Code KB loop to identify the chemical concentration in the CID05.*	X	ID	1/3	Used	1
CID03	559	**Agency Qualifier Code** **Description:** Code identifying the agency assigning the code values **Code Name** DL Defense Logistics Agency	X	ID	2/2	Used	1
CID04	751	**Product Description Code** **Description:** A code from an industry code list which provides specific data about a product characteristic **DLMS Note:** *Use in the HL03 Code HP or Code KB loop. The following code values and associated definitions are authorized for use.* *ASH Ash Content (Identify the range or percent of ash in the CID05).* *BAS Basis for Information (Identify the Basis for Information (e.g. "USER", "LAB", "BOTH") in the CID05).* *BTU BTU/LB (Identify the BTU/LB in numeric format in the CID05).*	X	AN	1/12	Used	1

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
		COL Color (Identify the color in the CID05).					
		COR Corrosive Indicator (Indicate Yes or No in the CID07).					
		CRC Cyanide Reactive Indicator (Indicate Yes or No in the CID07).					
		CSL Corrodes Steel Indicator (Indicate Yes or No in the CID07).					
		DHM DoT Hazardous Material (Indicate Yes or No in the CID07).					
		DNS Density (Identify the density in NNN.NNN format in the CID05).					
		DXW Dioxin Waste Indicator (Indicate Yes or No in the CID07).					
		EXG Exemption Granted Indicator (Indicate Yes or No in the CID07).					
		FLP Flash Point (Indicate in degrees Fahrenheit the flash point in the CID05).					
		HTC High TOC (>10%) Indicator (indicate Yes or No in the CID07).					
		IGN Ignitable Indicator (Indicate Yes or No in the CID07).					
		LAY Layering (Indicate the type of layering (e.g., "MULTILAYERED", "BILAYERED", "SINGLE PHASE") in the CID05).					
		LDR Land Disposal Restrictions Indicator (Indicate Yes or No in the CID07).					
		LTC Low TOC (<10%) Indicator (indicate Yes or No in the CID07).					
		MTS Meets Treatment Standards Indicator (Identify the Treatment Standard Reference in the CID05 and Indicate Yes or No in the CID07).					
		OTH Additional Hazard Description (Identify in the CID05 any additional Hazard descriptive information associated with the proper shipping name).					
		PHS Physical State (Identify the physical state (e.g., "S" = solid, "L" = liquid, SS = semisolid; "G" = gas; "O" = Other) in the CID05).					
		PPH Ph (Identify the Ph in the CID05).					
		RAC Reactive Indicator (Indicate Yes or NO n the CID07).					
		RCA RCRA Requirements (Identify the RCRA Requirements in the 2/MSG01/2200).					
		RCB Additional RCRA Requirements (Identify additional RCRA requirements in the 2/MSG01/2200).					
		RGL Low range of concentration (Identify the range in the CID05). Use with the CID01 = RB					
		RHG High range of concentration (Identify the range in the CID05). Use with the CID01 = RB					
		SHI Special Handling Information (Indicate any special handling information in the 2/MSG01/2200).					
		SRC Sulfide Reactive Indicator (Indicate Yes or No in the CID07).					
		TGR Treatment Group (Identify the treatment group (e.g, "W" = Wastewater;					

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
		"N" = Non wastewater) in the CID05).					
		TOX Toxicity Characteristic Indicator (Indicate Yes or No in the CID07).					
		TSD Total Solids (Identify the range or percent of total solids in the CID05).					
		UHC Underlying Hazardous Constituent (Indicate Yes or No in the CID07).					
		WRC Water Reactive Indicator (Indicate Yes or No in the CID07).					
CID05	352	**Description**	X	AN	1/80	Used	1
		Description: A free-form description to clarify the related data elements and their content					
		DLMS Note: *1. Use in the HL03 Code KB loop with CID01 Codes CON and RB.*					
		2. Use in the HL03 Code HE loop with CID01 Code RB.					
		3. Use in the HL03 Code HP loop with CID03 Codes ASH, BAS, BTU, COL, DNS, FLP, LAY, OTH, PHS, PPH, TGR, and TSD. For CID03 Code MTS, identify the Treatment Standard Reference.					
CID07	1073	**Yes/No Condition or Response Code**	O	ID	1/1	Used	1
		Description: Code indicating a Yes or No condition or response					
		DLMS Note: *Use in the HL03 Code HP loop with CID07 Codes COR, CRC, CSL, DHM, DXW, EXG, HTC, IGN, LDR, LTC, MTS, RAC, SRC, TOX, UHC, WRC.*					
		All valid standard codes are used.					

UIT Unit Detail

Pos: 1800	Max: 1
Detail - Optional	
Loop: CID	Elements: 1

User Option (Usage): Used

Purpose: To specify item unit data

Syntax Rules:

1. C0302 - If UIT03 is present, then UIT02 is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
UIT01	C001	**Composite Unit of Measure** **Description:** To identify a composite unit of measure(See Figures Appendix for examples of use) **DLMS Note:** *Use to identify the value of the units expressed in the HL03 Code HE loop with CID01 Code RB.* **Comments:** 1. If C001-02 is not used, its value is to be interpreted as 1. 2. If C001-03 is not used, its value is to be interpreted as 1. 3. If C001-05 is not used, its value is to be interpreted as 1. 4. If C001-06 is not used, its value is to be interpreted as 1. 5. If C001-08 is not used, its value is to be interpreted as 1. 6. If C001-09 is not used, its value is to be interpreted as 1. 7. If C001-11 is not used, its value is to be interpreted as 1. 8. If C001-12 is not used, its value is to be interpreted as 1. 9. If C001-14 is not used, its value is to be interpreted as 1. 10. If C001-15 is not used, its value is to be interpreted as 1.	M	Comp		Must use	1
UIT01-01	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **DLMS Note:** *DLMS users see the Unit of Issue and Purchase Unit Conversion table for code conversions between X12 and DOD.*	M	ID	2/2	Must use	1

Code	Name
59	Parts Per Million
	DLMS Note: *GenComm equivalent code is PPM.*
61	Parts Per Billion
	DLMS Note: *GenComm equivalent code is PPB.*

Code	Name
KL	Kilograms/Meter
	DLMS Note: *This is used in the HL03 Code HE. Use with CID01=RB.*
ML	Milliliter
	DLMS Note: *This is used in the HL03 Code HE. Use with CID01=RB*
NA	Milligrams per Kilogram
	DLMS Note: *GenComm equivalent code is MG/KG.*
P1	Percent
	DLMS Note: *GenComm equivalent code is PER.*

MSG Message Text

Pos: 2200	Max: >1
Detail - Optional	
Loop: CID	Elements: 1

User Option (Usage): Used

Purpose: To provide a free-form format that allows the transmission of text information

Syntax Rules:

1. C0302 - If MSG03 is present, then MSG02 is required.

Semantics:

1. MSG03 is the number of lines to advance before printing.

Comments:

1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2. If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
MSG01	933	**Free-Form Message Text** **Description:** Free-form message text **DLMS Note:** *Use in the HL03 Code HP loop with CID04 Codes SHI, RCA, and RCB.*	M	AN	1/264	Must use	1

SE Transaction Set Trailer

Pos: 0100	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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)

Comments:

1. SE is the last segment of each transaction set.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SE01	96	**Number of Included Segments** **Description:** Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use	1
SE02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set **DLMS Note:** *Cite the same number as the one cited in ST02.*	M	AN	4/9	Must use	1