CBP Automated Export System Trade Interface Requirements

Export Manifest - Hazardous Materials Download

November 2011

U.S. Customs and Border Protection

ace

Export Manifest – Hazardous Materials Download

Provides descriptions and format requirements for each data element contained within a Hazardous Materials Download transaction sent as output to a Port Authority.

RECORD DESCRIPTIONS

The Transaction Control Trailer (ZCR) Record provides data element descriptions and format requirements for the record ending a transaction file.

TRANSACTION PROCESSING

This chapter describes output records used by USCBP to provide a participating Port Authority with a copy of hazardous materials data previously received and successfully processed as part of an original Export Manifest submission or Export Manifest amendment. Each Hazardous Materials Download transaction contains the data for all containers passing through a given port within a single manifest for which HAZMAT Information records (V01 through V03) were provided. The output records return all identifying information for the Export Manifest, containers, and hazardous materials.

Hazardous Materials Download transactions will use the Application Identifier (on ACR record) of "NC". This chapter provides descriptions and format requirements for each data element contained within each output record. Refer to the sections on Output Record Usage Map for a layout of mandatory and conditional records and looping structures.

For Export Manifest Amendments containing Hazardous Material, it is possible to receive another HAZMAT Download with the C01 through V03 segments that were previously reported from the original Export Manifest submission. The HAZMAT data from the Amendment should supersede that from the original HAZMAT Download.

General Rules for Output Transmissions from USCBP:
- Spaces are transmitted in all data elements marked 'filler'.
- USCBP transmits ONLY uppercase ENGLISH alphabetic data.
- USCBP transmits ONLY displayable characters found on a standard keyboard. Low-values, carriage return characters, or other non-standard characters shall not be transmitted.

OUTPUT RECORD USAGE MAP

Conditional output records and fields will be populated only if the corresponding records and fields were included in the original or amended Export Manifest submission.

The following table illustrates how the output records will be structured within a Hazardous Materials Download transmission. Additional notes are provided for clarification on looping structures.

Hazardous Materials Download (NC) Record Usage Map:

Record ID	Name	Req. Des.	Max Use	Loop Repeat	Notes
	Block Control Grouping	M		1	
ACR	Transaction Control Header	M	1		
	Manifest Grouping	M		1	
M01	Manifest	M	1		
M02	Manifest Continuation Record	C	1		
	Port Grouping	M		20	*1*
P01	Port	M	1		
	Container/Equipment Grouping	M		999	
C01	Container/Equipment	M	1		
C03	Additional Seal Number(s)	C	5		
	HAZMAT Grouping	M		99	*2*
V01	Hazardous Material	M	1		
V02	Hazardous Material	C	1		
V03	Hazardous Material	C	2		
ZCR	Transaction Control Trailer	M	1		

Designation: M = Reporting Mandatory; C = Reporting Conditional

Note 1:

A Port Authority will receive Hazardous Materials Download transmissions including container and HAZMAT information detail records for Bills of Lading with HAZMAT commodities destined for future ports of unlading on the same Export Manifest. The Hazardous Materials Download will not include information for containers that were offloaded at previous ports nor for containers to be discharged at the district port for the given Port Authority.

Note 2:

The hazardous material records V01, V02, and V03 will follow the Container/Equipment record (C01). One V01, V02, V03 group is allowed for each hazardous commodity. A maximum number of 99 groups per container are permitted.

Record Identifier ACR

Transaction Control Header Record

This record signals the beginning of a transaction file.

Record Identifier ACR					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3A	1-3	M	Must always equal ACR.	
AMS User Code	4AN	4-7	M	A code representing the USCBP-assigned port authority.	
Filler	6AN	8-13	M	Space fill.	
Application Identifier	2A	14-15	M	A code representing the type of application. Always equal to NC.	
Date	6N	16-21	M	A date in YYMMDD (year, month, day) format representing the date of processing.	
Time	6N	22-27	M	A time in HHMMSS (hours, minutes, seconds) format representing the time of processing. Eastern Standard/Daylight Time will be reported.	
Batch Number	5N	28-32	M	A USCBP-generated 5-position numeric code from 00001 to 99999. The batch number is used in conjunction with the date of transmission to uniquely identify a user transmission.	
Filler	48AN	33-80	M	Space fill.	

Record Identifier M01
Manifest Record

This is a mandatory record used to transmit vessel information and specific Export Manifest data.

Record Identifier M01					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3AN	1-3	M	Must always equal M01.	
Carrier Code	4AN	4-7	M	A Standard Carrier Alpha Code (SCAC) representing the automated exporting carrier/MVOCC/NVOCC.	1
Mode of Transportation Code	2N	8-9	M	A code indicating the type of vessel used to carry the manifested cargo. Valid codes are: 10 = Vessel, non-container, or unable to determine if container (Including Lightered, Land Bridge and LASH) 11 = Vessel Containerized (Container)	
Vessel Country Code	2A	10-11	M	An International Organization for Standardization (ISO) country code representing the flag country of the vessel. Refer to CAMIR Appendix G for valid codes.	
Vessel Name	23AN	12-34	M	The name of the exporting vessel as documented in the "Lloyds Registry of Ships".	
Voyage Number	5AN	35-39	C	The voyage number provided with the Export Manifest. Voyage numbers more than 5 characters in length.will be returned on the M02 record.	
Filler	5AN	40-44	M	Space fill.	
Manifest Sequence Number	6N	45-50	M	The manifest sequence number. This number is an optional carrier-assigned sequence number. The system-generated default is one (000001).	
Filler	1AN	51	M	Space fill.	
Vessel Code	7AN	52-58	C	International Maritime Organization (IMO) Code issued by Lloyds representing the exporting vessel. Data will be returned if provided in inbound message.	
Export Flag	1AN	59-59	M	Set to 'Y' for Export Manifest.	
Filler	21AN	60-80	M	Space fill.	

Note 1:

The Standard Carrier Alpha Code (SCAC) is issued by the National Motor Freight Traffic Association, Inc. located at 1001 North Fairfax Street, Suite 600, Alexandria, VA 22314. The Internet URL is: www.NMFTA.org. In the case of water carriers who own their containers, the SCAC is issued by the Intermodal Association of North America located at 6410 Kenilworth Ave., Suite 108, Riverdale, MD 20737.

Record Identifier M02
Manifest Continuation Record

This is a conditional record used to transmit a Voyage Number that is more than 5 characters in length.

Record Identifier M02					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3AN	1-3	M	Must always equal M02.	
Carrier-Assigned Batch Number	30AN	4-33	M	Space fill – not used for the NC transaction.	
Voyage Number (expanded)	30X	34-63	C	This field will be populated (instead of the M01 Voyage Number field) when voyage number is more than 5 characters in length.	
Filler	17AN	64-80	M	Space fill.	

Record Identifier P01
Port Record

This is a mandatory record used to transmit port data.

Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	3AN	1-3	M	Must always equal P01.	
Port of Departure Code	4N	4-7	M	Port where HAZMAT will be departing from the U.S. See Census Schedule D in CAMIR Appendix E for valid port codes.	
Original Estimated Date	6N	8-13	M	A date in MMDDYY (month, day, year) format representing the original scheduled date of departure at this port.	
Filler	67AN	14-80	M	Space fill.	

Table title: Record Identifier P01

Record Identifier C01

Container/Equipment Record

This is a mandatory record used to transmit the container/equipment number and seal number information. There will only be one container/equipment number per C01 record, but up to two seal numbers.

Record Identifier C01					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3AN	1-3	M	Must always equal C01.	
Container/ Equipment No.	14AN	4-17	M	A valid container/equipment number associated with a bill of lading. This field will return NC for non-containerized freight.	
Seal Number 1	15AN	18-32	C	A valid exporter/carrier seal number associated with the container/equipment.	
Seal Number 2	15AN	33-47	C	A valid exporter/carrier seal number associated with the container/equipment.	
Container/ Equipment Description Code	2AN	48-49	C	A code for describing the type of container or equipment used for shipment. Refer to CAMIR Appendix I for valid Container/ Equipment Description codes.	
Container/ Equipment Length	5X	50-54	C	Length (in feet and inches) of container/ equipment used to transport shipment. The formula is FFFII, where FFF is feet and II is inches. The range for II is 00 through 11.	
Height	8X	55-62	C	Vertical dimension of an object when object is in upright position. The formula is FFFFFFII, where FFFFFF is feet and II is inches. The range for II is 00 through 11.	
Width	8X	63-70	C	A shorter measurement of the two horizontal dimensions measured with the object in the upright position. The formula is FFFFFFII, where FFFFFF is feet and II is inches. The range for II is 00 through 11.	
Container/ Equipment Type	4AN	71-74	C	A code identifying the type of container/ equipment. Refer to CAMIR Appendix M for valid codes.	
Load/Empty Status Code	1A	75	C	A code which specifies the loaded condition of the transportation equipment. Valid status codes are: E = Empty L = Loaded	

Record Identifier C01					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Type of Service Code	2AN	76-77	C	A code specifying the extent of transportation service required. Valid codes are: BB = Break Bulk CS = Container Station CY = Container Yard HH = House-to-House HL = Headload or Devanning HP = House-to-Pier MD = Mixed Delivery NC = Non-Containerized PH = Pier-to-House PP = Pier-to-Pier RR = Roll on - Roll Off	
Filler	3AN	78-80	M	Space fill.	

Record Identifier C03
Additional Seal Number(s) Record

This is a conditional record used to transmit additional Seal Number(s) for a specific container (if reported with the original Export Manifest submission). Up to five (5) C03 records may exist per Container/Equipment (C01) record. This record is included only if provided in the original Export Manifest input submission or Export Manifest amendment.

Record Identifier C03					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3AN	1-3	M	Must always equal C03.	
Seal Number	15AN	4-18	M	A valid carrier seal number associated with the container.	
Seal Number	15AN	19-33	C	A valid carrier seal number associated with the container.	
Seal Number	15AN	34-48	C	A valid carrier seal number associated with the container.	
Seal Number	15AN	49-63	C	A valid carrier seal number associated with the container.	
Filler	17AN	64-80	M	Space fill.	

Record Identifier V01

Hazardous Material Record

This is a mandatory record for a shipment containing hazardous materials. This record is used to specify information relative to hazardous materials, as defined in the 49th Code of Federal Regulations, for Ocean and Intermodal manifests. There may be 99 V01 records per container.

Record Identifier V01					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3AN	1-3	M	Must always equal V01.	
Hazardous Material Code	10X	4-13	M	A code representing the identification number assigned to the hazardous material.	1
Hazardous Material Class	4X	14-17	C	A code representing the hazardous material class or division designated for the material in the International Maritime Dangerous Goods (IMDG) code.	
Hazardous Material Code Qualifier	1X	18	C	A code that describes the hazardous material class.	2
Hazardous Material Description	30AN	19-48	C	The proper shipping name of the material designated as hazardous.	
Hazardous Material Contact	24AN	49-72	C	The name and/or phone number of the person or department to contact in case of an emergency.	
UN Hazardous Material Page	6AN	73-78	C	The page number in the IMDG code in which the hazardous material identification appears.	
Filler	2AN	79-80	M	Space fill.	

Note 1:

The codes preceded by UN are associated with descriptions considered appropriate for international shipments as well as domestic shipments.

Note 2:

Valid codes for hazardous materials are:

Code	Description
4	46 Level DOT Code
6	Airline Tariff 6D
9	Title 49 Code of Federal Regulations
A	International Civil Aviation
D	Hazardous Materials ID DOT
E	Endorsement
F	Air Force Regulation 71-4
I	International Maritime Organization (IMO) Code issued by Lloyds
R	Bureau of Explosives 600-A
U	United Nations

Of the above, the most commonly used codes are I and U.

Record Identifier V02
Hazardous Material Record

This is a conditional record used to specify information relative to hazardous materials, as defined in the 49th Code of Federal Regulations, for Ocean and Intermodal manifests. This record is included only if provided in the original Export Manifest input submission or Export Manifest amendment.

Record Identifier V02					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3AN	1-3	M	Must always equal V02.	
Flashpoint Temperature	3N	4-6	M	A value representing the lowest temperature at which the vapor of a hazardous combustible liquid will ignite in the air. When returned, the Flashpoint Temperature is a whole number. No decimals.	
Unit of Measure Code	2A	7-8	M	A code representing the basic unit of measurement (UOM) for the flashpoint temperature. This is always CE = Degrees Centigrade/Celsius.	
Negative Indicator	1A	9	C	A code of N is used when a flashpoint temperature is negative, that is, below 0 degrees Centigrade/Celsius.	
Filler	71AN	10-80	M	Space fill.	

Record Identifier V03
Hazardous Material Record

This is a conditional record used to specify free form hazardous descriptive data in addition to the information provided in the V01 and V02 for Ocean and Intermodal manifests. For each commodity, there may be two V03 records per V01/V02 record. This record is included only if provided in the original Export Manifest input submission or Export Manifest amendment.

Record Identifier V03					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3AN	1-3	M	Must always equal V03.	
Hazardous Material Description	30AN	4-33	C	The material name and/or special instructions, if applicable.	
Hazardous Material Classification	30AN	34-63	C	Free form description of hazardous material classification, division, or label requirements.	
Filler	17AN	64-80	M	Space fill.	

Record Identifier ZCR

Transaction Control Trailer Record

This record signals the end of a transaction file.

Record Identifier ZCR					
Data Element	**Length/ Class**	**Position**	**Status**	**Description**	**Note**
Control Identifier	3A	1-3	M	Must always equal ZCR.	
AMS User Code	4N	4-7	M	A code representing the USCBP-assigned port authority.	
Filler	6AN	8-13	M	Space fill.	
Application Identifier	2AN	14-15	M	Output application identifier. Always equal to NC.	
Filler	19AN	16-34	M	Space fill.	
Number of Transaction Detail Records	5N	35-39	M	The total number of records transmitted (excludes the ACR and ZCR).	
Filler	41AN	40-80	M	Space fill.	