

Implementation Guide Rail Carrier Shipment Information

EDI 404

Carload Bill of Lading Empty Residue Non Dangerous and Dangerous Goods

Version 008030

Connection to CN

CN has a secure MFT server https://mftedi.cn.ca/ or we can push to an FTP server if you require. CN also connects with all major VAN's (Value Added Networks) and interconnects can be made available.

CN Contact

The EDI Onboarding team email address is EDIMGR@cn.ca. You can also visit us at www.cn.ca.

Canadian National Railway - Electronic Commerce Basic EDI 404 (Rail Bill of Lading) Requirements

The enclosed documentation covers information required to handle empty residue carload traffic for domestic and cross border destinations for both hazardous and non-hazardous commodities.

On this version 8030, there is a new requirement in the R2 segment that when there are multiple R2 segments present, the R203 (junction) is required on each, except for the final R2 segment.

Canadian National Railway - Electronic Commerce Empty Residue EDI 404 (Rail Bill of Lading) Requirements

CN recommends EDI shippers to be within 2 versions of the current EDI Standard X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on **empty residue non dangerous carload traffic originating in Canada to a Canadian destination**.

All empty residue shipments will require a residue weight value to be provided in the N703/N704 of the EDI transmission.

**The only exception will be tank car equipment that has been cleaned and purged and the L503 value (Commodity Code) is 3742263.

ISA*00* *00* *ZZ*GENERIC *230912*1454* U*00803*000054913*0*P*^ *02*CN GS*SR*GENERIC*CN*20230912*1454*0092*X*008030 ST*404*00920001 BX*00*R*NR**CN*L*E BNX*S**S M3*R*20230912*1454 N9*BM*495033230**20230912*1454 N7*CRDX*8962*1500*E******RR F9**WATSON*SK **D9**VANCOUVER*BC** N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*WATSON*SK*S0K 4V0*CA PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM N1*CN*GENERIC CONSIGNEE CO N3*12 SMITH STREET N4*VANCOUVER*BC*V5K 1P7*CA R2*CN*S LX*1 L5*1*DRY SUGAR*2062110*T L0*1***1500*E***1*CLD SE*24*00920001 GE*1*0092

IEA*1*000054913

ISA Segment: Interchange Control Header

ISA*00*	*00* *ZZ*GENERIC *02*CN	*230912*1454*U*00803*000054913*0*P		
Ref. Des.	Name	Data Element	Attribu	tes
ISA01	Authorization Information Qualifier	I01	ID	2/2
ISA02	Authorization Information (Ten spaces)	102	AN	10/10
ISA03	Security Information Qualifier	I03	ID	2/2
ISA04	Security Information (Ten spaces)	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (GENERIC - fill out field with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (CN- fill out field with spaces)	I07	AN	15/15
ISA09	Interchange Date (YYMMDD)	I08	DT	6/6
ISA10	Interchange Time (HHMM)	I09	TM	4/4
ISA11	Repetition Separator (Suggest "^")	I65		1/1
ISA12	Interchange Control Version Number (Value 00803)	I11	ID	5/5
ISA13	Interchange Control Number (a control number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none requested)	I13	ID	1/1
ISA15	(1= requested) Usage Indicator (P = Production) (T = Test)	I14	ID	1/1
ISA16	Component Element Separator (Suggest ":")	I15		1/1

GS Segment: Functional Group Header

GS*SR*GENERIC*CN*20230912*1454*0092*X*008030

Ref. Des.	Name	Data Element	Attribut	tes
GS01	Functional Identifier Code	479	ID	2/2
CCCC	(SR = Rail Carrier Shipment Information)	1.42	ANT	2/15
GS02	Application Sender's Code (Customer's sender ID)	142	AN	2/15
GS03	Application Receiver's Code	124	AN	2/15
	(CN = Canadian National)			
GS04	Date	373	DT	8/8
	(CCYYMMDD)			
GS05	Time	337	TM	4/6
	(HHMM)			
GS06	Group Control Number	28	N0	1/9
	(Assigned number originated and maintaine	ed by the sender)		
GS07	Responsible Agency Code	455	ID	1/2
	(X = Accredited Standards Committee X12))		
GS08	Version / Release / Industry Identity	480	AN	1/12

ST Segment: Transaction Set Header

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

ST*404*00920001

Ref. Des.	Name	Data Element	Attribut	es
ST01	Transaction Set Identifier Code (404 = Rail Carrier Shipment Information (1)	143 Bill of Lading))	ID	3/3
ST02	Transaction Set Control Number (Sequential control number generated by Cu	329	AN	4/9

BX Segment: General Shipment Information

BX*00*R*NR**CN*L*E

Ref. Des.	Name	Data Element	Attribut	tes
BX01	Transaction Set Purpose Code (00 = Original)	353	ID	2/2
BX02	Transportation Method/Type Code (R = Rail)	91	ID	1/2
BX03	Shipment Method of Payment (NR = non-revenue)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L = Pounds)	188	ID	1/1
BX07	Shipment Qualifier (E = empty equipment billing (non-revenue	147 e))	ID	1/1

BNX Segment: Rail Shipment Information

BNX*S**S

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1
BNX03	Billing Code (S = Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released through other means.

M3*R*20230912*1454

Ref. Des.	Name	Data Element	Attribut	res
M301	Release Code	132	ID	1/1
M302	(R = Release with Shipment Information) Release Date	373	DT	8/8
M303	(CCYYMMDD) Release Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

N9 Segment: Extended Reference Information

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*495033230**20230912*1454

Ref. Des.	Name	Data Element	Attribu	tes	
N901	Reference Number Qualifier	128	ID	2/3	
NIOOO	(BM = Bill of Lading number)	107	ANT	1 /20	
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/30	
N904	Date	373	DT	8/8	
	(CCYYMMDD, required for B/L (BM))				
N905	Time	337	TM	4/8	
	(HHMM, 24 hour clock 0001-2359 or				
	HHMMSS or HHMMSSD or HHMMSSDD				
	H=hours 00-23 M=minutes 00-59 S=second	ds 00-59			
	DD=decimal seconds in tenths and hundredths 00-99)				

N7 Segment: Equipment Details

N7*CRDX*8962*1500*E******RR

Ref. Des.	Name	Data Element	Attributes		
N701	Equipment Initial	206	AN	1/4	
N702	Equipment Number	207	AN	1/15	
N703	Weight	81	R	1/10	
N704	Weight Qualifier (E = Estimated Weight) (N = Net Weight)	187	ID	1/2	
N711	Equipment Description Code (RR = Railcar)	40	ID	2/2	

F9 Segment: Origin Station

Indicates the origin of the shipment, the point from where it is shipped. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9**WATSON*SK

Ref. Des.	Name	Data Element	Attributes		
F902	Origin Station	19	AN	2/30	
F903	State or Province Code	156	ID	2/2	

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**VANCOUVER*BC

Ref. Des.	Name	Data Element	Attributes	
	Destination Station State or Province Code	19 156	AN ID	2/30 2/2

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are required for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*WATSON*SK*S0K 4V0*CA N1*CN*GENERIC CONSIGNEE CO N3*12 SMITH STREET N4*VANCOUVER*BC*V5K 1P7*CA

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (SH = Shipper)	98	ID	2/3
N102	(CN = Consignee) Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element	Attributes	
N301	Address Information	166	AN	1/30

N4 Segment: Geographic Location

Name	Data Element	Attributes		
City Name	19	AN	2/30	
State or Province Code	156	ID	2/2	
Postal Code	116	ID	3/15	
Country Code	26	ID	2/3	
	City Name State or Province Code Postal Code	City Name 19 State or Province Code 156 Postal Code 116 Country Code 26	City Name 19 AN State or Province Code 156 ID Postal Code 116 ID Country Code 26 ID	City Name 19 AN 2/30 State or Province Code 156 ID 2/2 Postal Code 116 ID 3/15 Country Code 26 ID 2/3

^{**}For North American countries, use the ISO-3166 Alpha-2 character code

PER Segment: Administrative Communications Contact

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

Ref. Des.	Name	Data Element	Attributes		
PER01	Contact function code	366	ID	2/2	
	(IC = Information contact)				
PER02	Name	93	AN	1/35	
PER03	Communication number qualifier	365	ID	2/2	
	(TE=telephone)				
PER04	Communication number	364	AN	1/80	
PER05	Communication number qualifier	365	ID	2/2	
	(EM=email address)				
PER06	Communication number	364	AN	1/80	

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S

Ref. Des.	Name	Data Element 140	Attributes				
R201	Standard Carrier Alpha Code (SCAC)		ID	2/4			
R202	Routing Sequence Code	133	ID	1/2			
	(S = Origin Carrier, Shipper's Routing (Rail))						
R203	Junction Name (Contains R260 junction)	19	AN	2/30			

^{**}When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.

LX Segment: Transaction Set Line Number

LX*1

Ref. Des.	Name	Data Element	Attribu	tes
LX01	Assigned Number (Number assigned for differentiation within	554 n a transaction set)	N0	1/6

L5 Segment: Description, Marks, and Numbers

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*DRY SUGAR*2062110*T

Ref. Des.	Name	Data Element	Attributes		
L501	Line Number	213	N0	1/6	
L502	Commodity Description	79	AN	1/50	
L503	Commodity Code	22	AN	1/30	
	(7 digit Standard Transportation Commod	dity Code (STCC))			
L504	Commodity Code Qualifier	23	ID	1/1	
	(T = Standard Transportation Commodity Code (STCC))				

L0 Segment: Line Item - Quantity and Weight

L0*1***1500*E***1*CLD

Ref. Des.	Name	Data Element	Attributes		
L001	Lading Line Item Number	213	N0	1/6	
L004	Weight	81	R	1/10	
L005	Weight Qualifier	187	ID	1/2	
	(E = Estimated Weight)				
L008	Lading Quantity	80	N0	1/7	
L009	Packaging Form Code	211	ID	3/3	
	(CLD = Carload)				

SE Segment: Transaction Set Trailer

SE*24*00920001

Ref. Des.	Name	Data Element	Attributes		
SE01	Number of Included Segments (Includes ST and SE segments)	96	N0	1/10	
SE02	Transaction Set Control Number (Repeated from ST segment ST02)	329	AN	4/9	

GE Segment: Functional Group Trailer

GE*1*0092

Ref. Des.	Name	Data Element	Attributes		
GE01 GE02	Number of Transaction Sets Included Group Control Number (Repeated from GS segment GS06)	97 28	N0 N0	1/6 1/9	

IEA Segment: Interchange Control Trailer

IEA*1*000054913

Ref. Des.	Name	Data Element	Attributes		
	Number of included Functional Groups Interchange Control Number (Same number as ISA13)	I16 I12	N0 N0	1/5 9/9	

Canadian National Railway - Electronic Commerce Empty Residue EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on **empty residue** non dangerous carload traffic for traffic originating in the United States to a US destination.

All empty residue shipments will require a residue weight value to be provided in the N703/N704 of the EDI transmission.

ISA*00* *00* *ZZ*GENERIC *02*CN *230912*1454* U*00803*000054913*0*P*^ GS*SR*GENERIC*CN*20230912*1454*0092*X*008030 ST*404*00920001 BX*00*R*NR**CN*L*E BNX*S**S M3*R*20230912*1454 N9*BM*495033230**20230912*1454 N7*CRDX*8962*1500*E******RR F9**DECATUR*IL D9**DESTREHAN*LA N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*DECATUR*IL*62526*US PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM N1*CN*GENERIC CONSIGNEE CO N3*123 MAIN STREET N4*DESTREHAN*LA*70047*US R2*CN*S LX*1 L5*1*DRY SUGAR*2062110*T L0*1***1500*E***1*CLD SE*24*00920001 GE*1*0092

IEA*1*000054913

Canadian National Railway - Electronic Commerce Empty Residue EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on **empty residue non dangerous carload traffic originating in Canada and destined to the United States**. All empty residue shipments crossing the border will require a residue weight value to be provided in the N703/N704 of the EDI transmission.

The only exception will be equipment that has been cleaned and purged, STCC 3742263.

Empty shipments with residue weight less than 7% of the loaded capacity of the equipment will require full commodity description (STCC), the residue weight (N703/N704) value as well as civic address information for all parties to the shipment.

Empty shipments with residue weight equal to or in excess of 7% of the loaded capacity of the equipment will require full commodity description (STCC), complete civic address information for each party to the shipment as well as a customs broker.

EDI 404 with mandatory transborder data highlighted in bold red.

ISA*00* *230912*1454* U*00803*000054913*0*P*^ *00* *ZZ*GENERIC *02*CN GS*SR*GENERIC*CN*20230912*1454*0092*X*008030 ST*404*00920001 BX*00*R*NR**CN*L*E*N***30*N*2 BNX*R**S M3*R*20230912*1454 N9*BM*495033230**20230912*1454 N7*CRDX*8962*15000*E******RR F9**WATSON*SK D9**CEDAR RAPIDS*IA N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*WATSON*SK*S0K 4V0*CA PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM **N1*CN*GENERIC CONSIGNEE CO** N3*12 SMITH STREET N4*CEDAR RAPIDS*IA*52402*US N1*XU*CUSTOMS BROKER INC N3*123 MAIN STREET N4*RANIER*MN*56649*US R2*CN*S*SUPER R2*UP*1 LX*1 L5*1*DRY SUGAR*2062110*T L5*1*THIS SHIPMENT OF MERCHANDISE IS VALUED BELOW L5*1*\$200 AND MEETS THE REQUIREMENTS OF 19 U.S.C. L5*1*1321(A)(2) TO QUALIFY FOR INFORMAL ENTRY L0*1***15000*E***1*CLD SE*31*00920001 GE*1*0092 IEA*1*000054913

BX Segment: General Shipment Information

BX*00*R*NR**CN*L*E*N***30*N*2

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code (00 = Original)	353	ID	2/2
BX02	Transportation Method/Type Code (R = Rail)	91	ID	1/2
BX03	Shipment Method of Payment (NR = non-revenue)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L = Pounds)	188	ID	1/1
BX07	Shipment Qualifier (E = empty equipment billing (non-revenu	147 e))	ID	1/1
BX08	Section Seven Code (N=not in effect) (S=in effect)	226	ID	1/1
BX11	Customs Documentation handling code (30 = Proforma with Broker, no B13 requirements)	501 red)	ID	2/2
BX12	Confidential Billing Request Code (N=not applicable)	199	ID	1/1
BX13	Goods and Services Tax Reason Code (2 = No GST to apply)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*S**S

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1
BNX03	Billing Code (S = Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released at a future time.

M3*R*20230912*0728

Ref. Des.	Name	Data Element	Attributes		
M301	Release Code (R = Release with Shipment Information)	132	ID	1/1	
M302	Release Date (CCYYMMDD)	373	DT	8/8	
M303	Release Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6	

N9 Segment: Extended Reference Information

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*495033230**20230912*1454

Ref. Des.	Name	Data Element	Attrib	utes		
N901	Reference Number Qualifier	128	ID	2/3		
	(BM = Bill of Lading number)					
N902	Reference Number	127	AN	1/30		
	(Max 15 characters for B/L # (BM))					
N904	Date	373	DT	8/8		
	(CCYYMMDD, required for B/L (BM))					
N905	Time	337	TM	4/8		
	(HHMM, 24 hour clock 0001-2359 or					
HHMMSS or HHMMSSD or HHMMSSDD						
	H=hours 00-23 M=minutes 00-59 S=secon	H=hours 00-23 M=minutes 00-59 S=seconds 00-59				
	DD=decimal seconds in tenths and hundredths 00-99)					

N7 Segment: Equipment Details

N7*CRDX*8962*15000*E******RR

Ref. Des.	Name	Data Element	Attributes		
N 1701		206	437	1/4	
N701	Equipment Initial	206	AN	1/4	
N702	Equipment Number	207	AN	1/15	
N703	Weight	81	R	1/10	
N704	Weight Qualifier	187	ID	1/2	
	(E = Estimated Weight)				
N711	Equipment Description Code	40	ID	2/2	
	(RR = Railcar)				

F9 Segment: Origin Station

Indicates the origin of the shipment, the point from which it is shipped. The spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9**WATSON*SK

Ref. Des.	Name	Data Element	Attributes		
F902	Origin Station State or Province Code	19	AN	2/30	
F903		156	ID	2/2	

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**CEDAR RAPIDS*IA

Ref. Des.	Name	Data Element	ment Attributes		
D902	Destination Station	19	AN	2/30	
D903	State or Province Code	156	ID	2/2	

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are repeated for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC
N3*123 FIRST ROAD
N4*WATSON*SK*S0K 4V0*CA
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*CEDAR RAPIDS*IA*52402*US
N1*XU*CUSTOMS BROKER INC
N3*123 MAIN STREET
N4*RANIER*MN*56649*US

Element Element		Data	Data	Characters
Seq	Name	Element	Type	Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (XU = US Customs Broker)	98	ID	2/3
N102	Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element	Attributes		
N301	Address Information	166	AN	1/30	

N4 Segment: Geographic Location

Ref. Des.	Name	Data Element	Attributes		
N401	City Name	19	AN	2/30	
N402	State or Province Code	156	ID	2/2	
N403	Postal Code	116	ID	3/15	
N404	Country Code	26	ID	2/3	
	**For Month Amoriage acceptains	the ICO 2166 Almba 2	01000000		

^{**}For North American countries, use the ISO-3166 Alpha-2 character code

PER Segment: Administrative Communications Contact

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

Ref. Des.	Name	Data Element	Attributes		
PER01	Contact function code	366	ID	2/2	
	(IC = Information contact)				
PER02	Name	93	AN	1/35	
PER03	Communication number qualifier	365	ID	2/2	
	(TE=telephone)				
PER04	Communication number	364	AN	1/80	
PER05	Communication number qualifier	365	ID	2/2	
	(EM=email address)				
PER06	Communication number	364	AN	1/80	

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S*SUPER R2*UP*1

Ref. Des.	Name	Data Element	Attribut	es
R201	Standard Carrier Alpha Code (SCAC) (CN=Canadian National)	140	ID	2/4
R202	Routing Sequence Code (S=Origin Carrier, Shipper's Routing (Rail) (1=1st Carrier After Origin Carrier)	133	ID	1/2
R203	Junction Name (Contains R260 junction)	19	AN	2/30

^{**}When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.

LX Segment: Transaction Set Line Number

LX*1

Ref. Des.	Name	Data Element	Attributes		
LX01	Assigned Number (Number assigned for differentiation with	554	N0	1/6	

L5 Segment: Description, Marks, and Numbers

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*DRY SUGAR*2062110*T L5*1*THIS SHIPMENT OF MERCHANDISE IS VALUED BELOW L5*1*\$200 AND MEETS THE REQUIREMENTS OF 19 U.S.C. L5*1*1321(A)(2) TO QUALIFY FOR INFORMAL ENTRY

Ref. Des.	Name	Data Element		tes		
T 501		212	NO	1/6		
L501	Line Number	213	N0	1/6		
L502	Commodity Description	79	AN	1/50		
L503	Commodity Code	22	AN	1/30		
	(7 digit Standard Transportation Commodity Code (STCC))					
L504	Commodity Code Qualifier	23	ID	1/1		
(T = Standard Transportation Commodity Code (STCC))						

L0 Segment: Line Item - Quantity and Weight

L0*1***15000*E***1*CLD

Ref. Des.	Name	Data Element	Attributes		
L001	Lading Line Item Number	213	N0	1/6	
L004	Weight	81	R	1/10	
L005	Weight Qualifier (E = Estimated Weight)	187	ID	1/2	
L008	Lading Quantity	80	N0	1/7	
L009	Packaging Form Code (CLD = Carload)	211	ID	3/3	

Canadian National Railway - Electronic Commerce Hazardous Empty Residue EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on **empty residue** hazardous carload traffic originating in Canada to a Canadian destination.

The Canadian Transportation of Dangerous Goods regulations will apply.

All empty residue shipments will require a residue weight value to be provided in the N703/N704 of the EDI transmission.

ISA*00* *00* *ZZ*GENERIC *02*CN *230912*1454* U*00803*000054913*0*P*^ GS*SR*GENERIC*CN*20230912*1454*0092*X*008030

ST*404*00920001

BX*00*R*NR**CN*L*E

BNX*S**S

M3*R*20230912*1454

N9*BM*495033230**20230912*1454

N7*CRDX*8962*0*N******RR

F9**WATSON*SK

D9**VANCOUVER*BC

N1*SH*GENERIC CARLOAD INC

N3*123 FIRST ROAD

N4*WATSON*SK*S0K 4V0*CA

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

N1*CN*GENERIC CONSIGNEE CO

N3*12 SMITH STREET

N4*VANCOUVER*BC*V5K 1P7*CA

R2*CN*S

LX*1

L5*1*RESIDUE: LAST CONTAINED GASOLINE*4908175*L

L5*1*GASOLINE*4908175*L

L0*1***0*N***1*TKR

LS*LH1

LH1*TK*1*UN1203**4908175****R*II

LH2*3*P

LH3*GASOLINE*C

LH4*2-1928*1 555 555 1234

PER*HM*offeror company name or contract number*TE*1 800 424 9300

N1*SH*GENERIC CARLOAD INC

N3*123 FIRST ROAD

N4*WATSON*SK*S0K 4V0*CA

PER*RP**TE*123-123-1234

N1*CN*GENERIC CONSIGNEE CO

N3*12 SMITH STREET

N4*VANCOUVER*BC*V5K 1P7*CA

LE*LH1

LH6*JOHN Q SHIPPER

SE*40*00920001

GE*1*0092

IEA*1*000054913

BX Segment: General Shipment Information

BX*00*R*NR**CN*L*E

Ref. Des.	Name	Data Element	Attribu	ites
BX01	Transaction Set Purpose Code	353	ID	2/2
BX02	(00 = Original) Transportation Method/Type Code (R = Rail)	91	ID	1/2
BX03	Shipment Method of Payment (NR = non-revenue)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code	188	ID	1/1
BX07	(L = Pounds) Shipment Qualifier (E = empty equipment billing (non-revenue	147 e))	ID	1/1

BNX Segment: Rail Shipment Information

BNX*S**S

Ref. Des.	Name	Data Element	Attribut	es
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1
BNX03	Billing Code (S=Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released through other means.

M3*R*20230912*1454

Ref. Des.	Name	Data Element	Attribu	tes
M301	Release Code	132	ID	1/1
M202	(R = Release with Shipment Information)	272	DT	0 /0
M302	Release Date (CCYYMMDD)	373	DI	8/8
M303	Release Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

N9 Segment: Extended Reference Information

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*495033230**20230912*1454

Ref. Des.	Name	Data Element	Attrib	ıtes	
N901	Reference Number Qualifier	128	ID	2/3	
N902	(BM = Bill of Lading number) Reference Number	127	AN	1/30	
	(Max 15 characters for B/L # (BM))				
N904	Date	373	DT	8/8	
	(CCYYMMDD, required for B/L (BM))				
N905	Time	337	TM	4/8	
	(HHMM, 24 hour clock 0001-2359 or				
	HHMMSS or HHMMSSD or HHMMSSD	D			
	H=hours 00-23 M=minutes 00-59 S=seconds 00-59				
	DD=decimal seconds in tenths and hundre	dths 00-99)			

N7 Segment: Equipment Details

N7*CRDX*8962*0*N******RR

Ref. Des.	Name	Data Element	Attributes		
N701	Equipment Initial	206	AN	1/4	
N702	Equipment Number	207	AN	1/15	
N703	Weight	81	R	1/10	
N704	Weight Qualifier (N = Net Weight)	187	ID	1/2	
N711	Equipment Description Code (RR = Railcar)	40	ID	2/2	

F9 Segment: Origin Station

Indicates the origin of the shipment, the point from where it is shipped. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9**WATSON*SK

Ref. Des.	Name	Data Element	Attributes	
F902	Origin Station	19	AN	2/30
F903	State or Province Code	1)	7111	2/30

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**VANCOUVER*BC

Ref. Des.	Name	Data Element	Attributes		
D902	Destination Station	19	AN	2/30	
D903	State or Province Code	156	ID	2/2	

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are required for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*WATSON*SK*S0K 4V0*CA N1*CN*GENERIC CONSIGNEE CO N3*12 SMITH STREET N4*VANCOUVER*BC*V5K 1P7*CA

Ref. Des.	Name	Data Element	Attribut	es
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee) (PF = Payer of Freight)	98	ID	2/3
N102	Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element	Attributes		
N301	Address Information	166	AN	1/30	

N4 Segment: Geographic Location

Ref. Des.	Name	Data Element	Attributes	
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/15
N404	Country Code	26	ID	2/3
	**For North American countries, use the ISO-3166 Alpha-2 character code			

PER Segment: Administrative Communications Contact

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

Attributes		

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S

Ref. Des.	Name	Data Element	Attrib	Attributes	
R201 R202	Standard Carrier Alpha Code (SCAC) Routing Sequence Code (S = Origin Carrier, Shipper's Routing (R	140 133 Rail))	ID ID	2/4 1/2	
R203	Junction Name (Contains R260 junction)	19	AN	2/30	

^{**}When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.

LX Segment: Transaction Set Line Number

LX*1

Ref. Des.	Name	Data Element	Attribu	tes
LX01	Assigned Number (Number assigned for differentiation within	554 n a transaction set)	N0	1/6

L5 Segment: Description, Marks, and Numbers

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*RESIDUE: LAST CONTAINED GASOLINE*4908175*L L5*1*GASOLINE*4908175*L

Ref. Des.	Name	Data Element	Attrib	utes	
L501	Line Number	213	N0	1/6	
L502	Commodity Description	79	AN	1/50	
L503	Commodity Code	22	AN	1/30	
	(7 digit Standard Transportation Commod	lity Code (STCC))			
L504	Commodity Code Qualifier	23	ID	1/1	
	(L= last contained contents (STCC))				

L0 Segment: Line Item - Quantity and Weight

L0*1***0*N***1*TKR

Ref. Des.	Name	Data Element	Attributes		
L001	Lading Line Item Number	213	N0	1/6	
L004	Weight	81	R	1/10	
L005	Weight Qualifier (N=net weight)	187	ID	1/2	
L008	Lading Quantity	80	N0	1/7	
L009	Packaging Form Code (TKR = tank car)	211	ID	3/3	

LS Segment: Loop Header

LS*LH1

Ref. Des.	Name	Data Element	Attributes	
LS01	Loop Identifier Code To indicate that the next segment begins a l	447 oop.	AN	1/6

LH1 Segment: Hazardous Identification Information

LH1*TK*1*UN1203**4908175****R*II

		Attributes	
Measurement Code 3	355	ID	2/2
8	80	N0	1/7
ication Code 2	277	ID	6/6
2	22	AN	1/30
3	380	R	1/15
Code 6	565	ID	1/1
	-6.	ID L II or II	1/3
	ication Code Code ode	80 277 22 380 Code 665 ode 254	80 N0 Cication Code 277 ID 22 AN 380 R Code 665 ID

LH2 Segment: Hazardous Classification Information

LH2*3*P

Ref. Des.	Name	Data Element	Attributes		
	Hazardous Placard Notation Hazardous Class Qualifier (P=Primary)	215 983	ID ID	1/30 1/1	

LH3 Segment: Hazardous Material Shipping Name Information

LH3*GASOLINE*C

Name	Data Element	Attrib	Attributes	
11 0	224	AN	1/25	
Name Qualifier	984	ID	1/1	
Qualifier indicating the source (regulatory) of the proper shipping name.				
	Hazardous Material Shipping Name Hazardous Material Shipping Name Qualifier	Hazardous Material Shipping Name 224 Hazardous Material Shipping Name Qualifier 984 Qualifier indicating the source (regulatory) of the proper ship	Hazardous Material Shipping Name 224 AN Hazardous Material Shipping Name Qualifier 984 ID Qualifier indicating the source (regulatory) of the proper shipping nar	Hazardous Material Shipping Name 224 AN 1/25 Hazardous Material Shipping Name Qualifier 984 ID 1/1 Qualifier indicating the source (regulatory) of the proper shipping name.

LH4 Segment: Canadian Dangerous Requirements

LH4*2-1928*1 555 555 1234

Ref. Des.	Name	Data Element	Attribut	tes
LH401	Emergency Response Plan Number (Identity number of a specific hazardous En the Director General of Canada)	238 mergency Respons	AN e Plan tha	1/12 at is assigned by
LH402	Communication Number (Phone number including country or area co	364 ode when applicab	AN le)	1/80

PER Segment: Administrative Communications Contact

PER*HM*offeror company name or contract number*TE*1 800 424 9300

Ref. Des.	Name	Data Element	Attribu	tes
PER01	Contact Function Code (HM=primary 24-hour Hazardous Material	366 Contact emergence	ID cy phone	2/2 number)
PER02	Name If the emergency response telephone number (e.g., Chemtrec), the PER02 must identify the			

PER03 Communication Number Qualifier 365 ID 2/2 (TE=Telephone)

PER04 Communication Number 364 AN 1/80

N1 Segment: Party Identification

Within the LH1 Loop

Used to identify the <u>Canadian</u> 'consignor' ('SH' shipper or 'CN' consignee) as required by Transport Canada regulations (TDG 3.5 (1)(a)).

N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*WATSON*SK*S0K 4V0*ca N1*CN*GENERIC CONSIGNEE CO N3*12 SMITH STREET N4*VANCOUVER*BC*V5K 1P7*CA

Ref. Des.	Name	Data Element	Attribu	tes
N101	Entity Identifier Code (SH = Shipper)	98	ID	2/3
N102	(CN = Consignee) Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element	Attributes	
N301	Address Information	166	AN	1/30

N4 Segment: Geographic Location

Ref. Des.	Name	Data Element	Attributes	
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/15
N404	Country Code	26	ID	2/3

PER Segment: Administrative Communications Contact

PER*RP**TE*123-123-1234

Ref. Des.	Name	Data Element	Attributes	
PER01	Contact function code	366	ID	2/2
	(RP=responsible person)			
PER03	Communication number qualifier	365	ID	2/2
	(TE=telephone)			
PER04	Communication number			

LE Segments: Loop Trailer

LE*LH1

Ref. Des.	Name	Data Element	Attribut	es
LE01	Loop Identifier Code	447	AN	1/6

LH6 Segment: Hazardous Certification

Provides the name of the person who prepared, and certifies to its accuracy, the documentation of the regulated commodity.

LH6*JOHN Q SHIPPER

Ref. Des.	Name	Data Element	Attributes	
LH601	Name	93	AN	1/60

Canadian National Railway - Electronic Commerce Hazardous Empty Residue EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on **empty residue** hazardous carload traffic originating in the United States to a US destination.

The United States CFR49 Regulations will apply.

All empty residue shipments will require a residue weight value to be provided in the N703/N704 of the EDI transmission.

ISA*00* *00* *ZZ*GENERIC *02*CN *230912*1454* U*00803*000054913*0*P*^

GS*SR*GENERIC*CN*20230912*1454*0092*X*008030

ST*404*00920001

BX*00*R*NR**CN*L*E

BNX*S**S

M3*R*20230912*1454

N9*BM*495033230**20230912*1454

N7*CRDX*8962*0*N*******RR

F9**DECATUR*IL

D9**DESTREHAN*LA

N1*SH*GENERIC CARLOAD INC

N3*123 FIRST ROAD

N4*DECATUR*IL*62526*US

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

N1*CN*GENERIC CONSIGNEE CO

N3*12 SMITH STREET

N4*DESTREHAN*LA*70047*US

R2*CN*S

LX*1

L5*1*RESIDUE: LAST CONTAINED GASOLINE*4908175*L

L0*1***0*N***1*TKR

LS*LH1

LH1*TK*1*UN1203**4908175****R*II

LH2*3*P

LH3*GASOLINE*D

PER*HM*offeror company name or contract number*TE*1 800 424 9300

LE*LH1

SE*30*00920001

GE*1*0092

IEA*1*000054913

BX Segment: General Shipment Information

BX*00*R*NR**CN*L*E

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code	353	ID	2/2
BX02	(00 = Original) Transportation Method/Type Code (R = Rail)	91	ID	1/2
BX03	Shipment Method of Payment (NR = non-revenue)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L = Pounds)	188	ID	1/1
BX07	(K= Kilograms) Shipment Qualifier (E = empty equipment billing (non-revenue)	147 ue))	ID	1/1

BNX Segment: Rail Shipment Information

BNX*S**S

Ref. Name Des.		Data Element	Attributes		
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1	
BNX03	Billing Code (S=Single Shipment Billing)	11	ID	1/1	

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released through other means.

M3*R*20230912*1454

Ref. Des.	Name	Data Element	Attributes	
M301	Release Code	132	ID	1/1
	(R = Release with Shipment Information)			
M302	Release Date	373	DT	8/8
	(CCYYMMDD)			
M303	Release Time	337	TM	4/6
	(HHMM, 24 hour clock 0001-2359)			

N9 Segment: Extended Reference Information

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*495033230**20230912*1454

Ref. Des.	Name	Data Element	Attributes	
————				
N901	Reference Number Qualifier (BM = Bill of Lading number)	128	ID	2/3
N902	Reference Number	127	AN	1/30
	(Max 15 characters for B/L # (BM))			
N904	Date	373	DT	8/8
	(CCYYMMDD, required for B/L (BM))			
N905	Time	337	TM	4/8
	(HHMM, 24 hour clock 0001-2359 or			
	HHMMSS or HHMMSSD or HHMMSSD	D		
H=hours 00-23 M=minutes 00-59 S=seconds 00-59 DD=decimal seconds in tenths and hundredths 00-99)				

N7 Segment: Equipment Details

N7*CRDX*8962*0*N*******RR

Ref. Des.	Name	Data Element	Attributes		
N701 N702 N703 N704	Equipment Initial Equipment Number Weight Weight Qualifier	206 207 81 187	AN AN R ID	1/4 1/15 1/10 1/2	
N711	(N = Net Weight) Equipment Description Code (RR = Railcar)	40	ID	2/2	

F9 Segment: Origin Station

Indicates the origin of the shipment, the point from which it is shipped. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9**DECATUR*IL

Ref. Des.	Name	Data Element	Attributes		
	Origin Station State or Province Code	19 156	AN ID	2/30 2/2	

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**DESTREHAN*LA

Ref. Des.	Name	Data Element	Attribu	tes	
	Destination Station State or Province Code	19 156	AN ID	2/30 2/2	

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are repeated for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*DECATUR*IL*62526*US N1*CN*GENERIC CONSIGNEE CO N3*12 SMITH STREET N4*DESTREHAN*LA*70047*US

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (SH = Shipper)	98	ID	2/3
N102	(CN = Consignee) Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element Att		
N301	Address Information	166	AN	1/30

N4 Segment: Geographic Location

Ref. Des.	Name	Data Element	Attributes	
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/15
N404	Country Code	26	ID	2/3

^{**}For North American countries, use the ISO-3166 Alpha-2 character code

PER Segment: Administrative Communications Contact

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

Ref. Des.	Name	Data Element	Attributes		
PER01	Contact function code	366	ID	2/2	
	(IC = Information contact)				
PER02	Name	93	AN	1/35	
PER03	Communication number qualifier	365	ID	2/2	
	(TE=telephone)				
PER04	Communication number	364	AN	1/80	
PER05	Communication number qualifier	365	ID	2/2	
	(EM=email address)				
PER06	Communication number	364	AN	1/80	

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S

Ref. Des.	Name	Data Element	Attributes		
R201 R202	Standard Carrier Alpha Code (SCAC) Routing Sequence Code (S = Origin Carrier, Shipper's Routing (R	140 133 aail))	ID ID	2/4 1/2	
R203	Junction Name (Contains R260 junction)	19	AN	2/30	

^{**}When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.

LX Segment: Transaction Set Line Number

LX*1

Ref. N Des.	Name	Data Element	Attributes	
	Assigned Number (Number assigned for differentiation within	554	N0	1/6

L5 Segment: Description, Marks, and Numbers

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*RESIDUE: LAST CONTAINED GASOLINE*4908175*L

Ref. Des.	Name	Data Element	Attributes			
L501	Line Number	213	N0	1/6		
L502	Commodity Description	79	AN	1/50		
L503	Commodity Code	22	AN	1/30		
	(7 digit Standard Transportation Commodity Code (STCC))					
L504	Commodity Code Qualifier	23	ID	1/1		
	(L= last contained contents (STCC))					

L0 Segment: Line Item - Quantity and Weight

L0*1***0*N***1*TKR

Ref. Des.	Name	Data Element	Attrib	utes
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/10
L005	Weight Qualifier (N=net weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (TKR=tank car)	211	ID	3/3

LS Segment: Loop Header

LS*LH1

Ref. Des.	Name	Data Element	Attri	butes	
LS01	Loop Identifier Code To indicate that the next segment begins a least	447 oop.	AN	1/6	

LH1 Segment: Hazardous Identification Information

LH1*TK*1*UN1203**4908175****R*II

Ref. Des.	Name	Data Element	Attributes		
LH101	Unit or Basis for Measurement Code (TK=Tank)	355	ID	2/2	
LH102	Lading Quantity	80	N0	1/7	
LH103	UN or NA Identification Code	277	ID	6/6	
LH105	Commodity Code	22	AN	1/30	
LH107	Quantity	380	R	1/15	
LH109	Residue Indicator Code	665	ID	1/1	
	(R=residue)				
LH110	Packing Group Code	254	ID	1/3	
	(Code indicating degree of danger in terms of Roman number I, II or III)				

LH2 Segment: Hazardous Classification Information

LH2*3*P

Ref. Des.	Name	Data Element	Attributes		
	Hazardous Placard Notation Hazardous Class Qualifier (P=Primary)	215 983	ID ID	1/30 1/1	_

LH3 Segment: Hazardous Material Shipping Name Information

LH3*GASOLINE*D

Ref. Des.	Name	Data Element	Attributes	
	Hazardous Material Shipping Name Hazardous Material Shipping	224	AN	1/25
	Name Qualifier Qualifier indicating the source (regulatory) (D = USA Shipping Name)	984 of the proper ship	ID ping nam	1/1 e.

PER Segment: Administrative Communications Contact

PER*HM*offeror company name or contract number*TE*1 800 424 9300

Ref. Des.	Name	Data Element	Attribut	ees
PER01	Contact Function Code	366	ID	2/2
	(HM=primary 24-hour Hazardous Material	Contact emergence	y phone	number)
PER02	Name	93	AN	1/35
	If the emergency response telephone number	er shown in PERO	is an en	nergency provider
	(e.g Chemtrec) the PER02 must identify the	e company(offeror) by name	e or contract number.
PER03	Communication Number Qualifier (TE=Telephone)	365	ID	2/2
PER04	Communication Number	364	AN	1/80

LE Segments: Loop Trailer

LE*LH1

Ref. Des.	Name	Data Element	Attributes		
LE01	Loop Identifier Code	447	AN	1/6	

Canadian National Railway - Electronic Commerce Hazardous Empty Residue EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on **empty residue** hazardous carload traffic originating in Canada to a US destination.

All empty hazardous residue shipments crossing the border will require a residue weight value to be provided in the N703/N704 of the EDI transmission.

Empty shipments with residue weight less than 7% of the loaded capacity of the equipment will require full commodity description (STCC), the residue weight (N703/N704) value as well as civic address information for all parties to the shipment.

Since the shipment originates in Canada, the Canadian Transportation of Dangerous Goods regulations will apply. By virtue of the reciprocity that exists between the two countries, the United States will accept these shipments with TDG regulations.

EDI 404 with mandatory transborder data highlighted in bold red.

ISA*00* *02*CN *230912*1454* U*00803*000054913*0*P*^ *00* *ZZ*GENERIC GS*SR*GENERIC*CN*20230912*1454*0092*X*008030 ST*404*00920001 BX*00*R*NR**CN*L*E*N***30*N*2 BNX*S**S M3*R*20230912*1454 N9*BM*495033230**20230912*1454 N7*CRDX*8962*15000*E******RR F9**WATSON*SK D9**CEDAR RAPIDS*IA N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*WATSON*SK*S0K 4V0*CA PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM N1*CN*GENERIC CONSIGNEE CO N3*12 SMITH STREET N4*CEDAR RAPIDS*IA*52402*US N1*XU*CUSTOMS BROKER INC N3*123 MAIN STREET N4*RANIER*MN*56649*US R2*CN*S*SUPER R2*UP*1 LX*1 L5*1*RESIDUE: LAST CONTAINED GASOLINE*4908175*L L5*1*THIS SHIPMENT OF MERCHANDISE IS VALUED BELOW L5*1*\$200 AND MEETS THE REQUIREMENTS OF 19 U.S.C. L5*1*1321(A)(2) TO QUALIFY FOR INFORMAL ENTRY L0*1***15000*E***1*TKR LS*LH1 LH1*TK*1*UN1203**4908175****R*II LH2*3*P LH3*GASOLINE*D LH4*2-1111*1 555 555 1234 PER*HM*offeror company name or contract number*TE*1 8004249300 N1*SH*GENERIC CARLOAD INC N3*123 ROAD N4*WATSON*SK*S0K 4V0*CA PER*RP**TE*123-123-1234

LE*LH1 LH6*JOHN Q SHIPPER SE*43*00920001 GE*1*0092 IEA*1*000054913

Reciprocity of documentation

In general, regulated commodities in the US are also regulated in Canada and vice versa. Most of these commodities can ship under the documentation requirements of the origin country. There are, however, exceptions. As a shipper you are responsible for ensuring that your shipment is documented under the requirements of CFR49 (US regulations) and Transportation of Dangerous Goods (TDG) regulations (Canada).

Notable exceptions are Asphalt (regulated in US), Poison Inhalation Hazard (requires Canadian documentation), Waste products, and Emergency Response Plan information.

CN has an expert team who can help you if you have specific questions about how to document your shipment.

Additional items required for regulated shipments:

All telephone numbers must be available in Canada, or a Canadian number must be provided. Emergency Response Plan numbers and activation phone numbers (valid in Canadian locations)

BX Segment: General Shipment Information

BX*00*R*NR**CN*L*E*N***30*N*2

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code (00 = Original)	353	ID	2/2
BX02	Transportation Method/Type Code (R = Rail})	91	ID	1/2
BX03	Shipment Method of Payment (NR = non-revenue)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L = Pounds)	188	ID	1/1
BX07	Shipment Qualifier (E = empty equipment billing (non-revenue	147 e))	ID	1/1
BX08	Section Seven Code (N=not in effect)	226	ID	1/1
BX11	Customs Documentation handling code (30 = Proforma with Broker, no B13 requir	501 (ed)	ID	2/2
BX12	Confidential Billing Request Code (N=not applicable)	199	ID	1/1
BX13	Goods and Services Tax Reason Code (2 = No GST to apply)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*S**S

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1
BNX03	Billing Code (S = Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released through other means.

M3*R*20230912*1454

Name	Data Element	Attribu	ites
Release Code	132	ID	1/1
Release Date	373	DT	8/8
Release Time	337	TM	4/6
	Release Code (R = Release with Shipment Information) Release Date (CCYYMMDD)	Release Code 132 (R = Release with Shipment Information) Release Date 373 (CCYYMMDD) Release Time 337	Release Code 132 ID (R = Release with Shipment Information) Release Date 373 DT (CCYYMMDD) Release Time 337 TM

N9 Segment: Extended Reference Information

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*495033230**20230912*1454

Ref. Des.	Name	Data Element	Attrib	utes
N901	Reference Number Qualifier (BM = Bill of Lading number)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/30
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8
N905	Time (HHMM, 24 hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSD: H=hours 00-23 M=minutes 00-59 S=secon DD=decimal seconds in tenths and hundred	ds 00-59	TM	4/8

N7 Segment: Equipment Details

N7*CRDX*8962*15000*E******RR

Ref. Des.	Name	Data Element	Attrib	utes	
NI701	Eminorant Initial	206	A NT	1 / 4	
N701	Equipment Initial	206	AN	1/4	
N702	Equipment Number	207	AN	1/15	
N703	Weight	81	R	1/10	
N704	Weight Qualifier	187	ID	1/2	
	(E = estimated Net Weight)				
N711	Equipment Description Code	40	ID	2/2	
	(RR = Railcar)				

F9 Segment: Origin Station

Indicates the origin of the shipment, the point from which it is shipped. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9**WATSON*SK

Ref. Des.	Name	Data Element	Attributes	
F902 F903	Origin Station State or Province Code	19	AN	2/30

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**CEDAR RAPIDS*IA

Ref. Des.	Name	Data Element	Attributes	
D902	Destination Station	19	AN	2/30
D902	Destination Station	19	AIN	2/30
D903	State or Province Code	156	ID	2/2

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are repeated for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC
N3*123 FIRST ROAD
N4*WATSON*SK*S0K 4V0*CA
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*CEDAR RAPIDS*IA*52402*US
N1*XU*CUSTOMS BROKER INC
N3*123 MAIN STREET
N4*RANIER*MN*56649*US

Ref. Des.	Name	Data Element	Attribu	tes
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee) (PF = payer of freight)	98	ID	2/3
N102	(XU= customs broker) Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element	Attributes	
N301	Address Information	166	AN	1/30

N4 Segment: Geographic Location

Ref. Des.	Name	Data Element	Attributes	
N401 N402	City Name State or Province Code	19 156	AN ID	2/30 2/2
N402 N403	Postal Code	116	ID	3/15
N404	Country Code **For North American countries, use the IS	26 SO-3166 Alpha-2 o	ID haracter	2/3 <i>code</i>

PER Segment: Administrative Communications Contact

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

Ref. Des.	Name	Data Element	Attrib	utes	
PER01	Contact function code	366	ID	2/2	
	(IC = Information contact)				
PER02	Name	93	AN	1/35	
PER03	Communication number qualifier	365	ID	2/2	
	(TE=telephone)				
PER04	Communication number	364	AN	1/80	
PER05	Communication number qualifier	365	ID	2/2	
	(EM=email address)				
PER06	Communication number	364	AN	1/80	

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S*SUPER R2*UP*1

Ref. Des.	Name	Data Element	Attribu	utes
R201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Ra (1=1st carrier after origin carrier)	133 ail))	ID	1/2
R203	Junction Name (Contains R260 junction)	19	AN	2/30

^{**}When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.

LX Segment: Transaction Set Line Number

LX*1

Ref. Des.	Name	Data Element	Attributes	
LX01	Assigned Number (Number assigned for differentiation within	554 a transaction set)	N0	1/6

L5 Segment: Description, Marks, and Numbers

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*RESIDUE: LAST CONTAINED GASOLINE*4908175*L L5*1*GASOLINE*4908175*L L5*1*THIS SHIPMENT OF MERCHANDISE IS VALUED BELOW L5*1*\$200 AND MEETS THE REQUIREMENTS OF 19 U.S.C. L5*1*1321(A)(2) TO QUALIFY FOR INFORMAL ENTRY

Ref. Des.	Name	Data Element	Attrib	utes
L501	Line Number	213	N0	1/6
L502	Commodity Description	79	AN	1/50
L503	Commodity Code	22	AN	1/30
	(7 digit Standard Transportation Commod	lity Code (STCC))		
L504	Commodity Code Qualifier	23	ID	1/1
	(L= last contained contents (STCC))			

L0 Segment: Line Item - Quantity and Weight

L0*1***15000*E***1*TKR

Ref. Des.	Name	Data Element	Attributes		
I 001	L. P. L. L. Marchan	212	NO	1/6	
L001	Lading Line Item Number	213	N0	1/6	
L004	Weight	81	R	1/10	
L005	Weight Qualifier	187	ID	1/2	
	(E = Estimated Weight)				
L008	Lading Quantity	80	N0	1/7	
L009	Packaging Form Code	211	ID	3/3	
	(TKR = tank car)				

LS Segment: Loop Header

LS*LH1

Ref. Des.	Name	Data Element	Attributes		
LS01	Loop Identifier Code To indicate that the next segment begins a	447 loop.	AN	1/6	

LH1 Segment: Hazardous Identification Information

LH1*TK*1*UN1203**4908175****R*II

Ref. Des.	Name	Data Element	Attributes		
				·····	
LH101	Unit or Basis for Measurement Code (TK=Tank)	355	ID	2/2	
LH102	Lading Quantity	80	N0	1/7	
LH103	UN or NA Identification Code	277	ID	6/6	
LH105	Commodity Code	22	AN	1/30	
LH107	Quantity	380	R	1/15	
LH109	Residue Indicator Code	665	ID	1/1	
	(R=residue)				
LH110	Packing Group Code	254	ID	1/3	
	(Code indicating degree of danger in terms of Roman number I, II or III)				

LH2 Segment: Hazardous Classification Information

LH2*3*P

Ref. Des.	Name	Data Element	Attribu	ites
	Hazardous Placard Notation Hazardous Class Qualifier (P=Primary)	215 983	ID ID	1/30 1/1

LH3 Segment: Hazardous Material Shipping Name Information

LH3*GASOLINE*D

Ref. Des.	Name	Data Element	Attributes	
	Hazardous Material Shipping Name Hazardous Material Shipping Name Qualifier Qualifier indicating the source (regulatory) (D = USA Shipping Name)	224 984 of the proper ship	AN AN ping nam	1/25 1/1

LH4 Segment: Canadian Dangerous Requirements

LH4*2-1111*1 555 555 1234

Ref. Des.	Name	Data Element	Attrib	utes
LH401	Emergency Response Plan Number (Identity number of a specific hazardous the Director General of Canada)	238 s Emergency Respon	AN se Plan t	1/12 hat is assigned by
LH402	Communication Number (Phone number including country or are	364 a code when applical	AN ble)	1/80

PER Segment: Administrative Communications Contact

PER*HM*offeror company name or contract number*TE*1 800 424 9300

Ref. Des.	Name	Data Element	Attribu	tes
PER01	Contact Function Code (HM=primary 24-hour Hazardous Material	366 Contact emergence	ID cy phone	2/2 number)
PER02	Name If the emergency response telephone number (e.g., Chemtrec) the PER02 must identify the			
PER03	Communication Number Qualifier (TE=Telephone)	365	ID	2/2
PER04	Communication Number	364	AN	1/80

N1 Segment: Party Identification

Within the LH1 Loop

Used to identify the <u>Canadian</u> 'consignor' ('SH' shipper or 'CN' consignee) as required by Transport Canada regulations (TDG 3.5 (1)(a)).

N1*SH*GENERIC CARLOAD INC N3*123 FIRST ROAD N4*WATSON*SK*S0K 4V0*CA

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (SH = Shipper)	98	ID	2/3
N102	Name	93	AN	1/35

N3 Segment: Party Location

Ref. Des.	Name	Data Element Attribute		
N301	Address Information	166	AN	1/30

N4 Segment: Geographic Location

Ref. Des.	Name	Data Element	Attributes	
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/15
N404	Country Code	26	ID	2/3

PER Segment: Administrative Communications Contact

PER*RP**TE*123-123-1234

Ref. Des.	Name	Data Element	Attributes	
PER01	Contact function code (RP=responsible person)	366	ID	2/2
PER03	Communication number qualifier (TE=telephone)	365	ID	2/2
PER04	Communication number	364	AN	1/80

LE Segments: Loop Trailer

LE*LH1

Ref. Des.	Name	Data Element	Attributes	
LE01	Loop Identifier Code	447	AN	1/6

LH6 Segment: Hazardous Certification

Provides the name of the person who prepared, and certifies to its accuracy, the documentation of the regulated commodity.

LH6*JOHN Q SHIPPER

Ref. Des.	Name	Data Element	Attribut	ttributes	
LH601	Name	93	AN	1/60	