

**ABF Freight System, Inc.
ANSI ASC X12 Version 4010**

Motor Carrier Bill of Lading Set 211

ST – Transaction Set Header

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
ST01	143	Trans. Set ID Code	03	03	M / ID	'211'
ST02	329	Trans. Set Control No.	04	09	M / AN	

BOL – Beginning Segment for Motor Carrier Bill of Lading

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
BOL01	140	SCAC	02	04	M / ID	SCAC CC = Collect PP = Prepaid TP = Third Party
BOL02	146	Shipment Meth of Pay	02	02	M / ID	
BOL03	145	Shipment Identification Number	01	30	O / AN	Bill of Lading Number
BOL04	373	Date	08	08	M / DT	CCYYMMDD
BOL05	337	Time	04	08	O / TM	24 Hour clock time
BOL06	127	Reference ID	01	30	O / AN	
BOL07	160	Status Report Request Code	01	01	O / ID	P = Proof of delivery req. R = Auto. Status Report
BOL08	226	Section Seven Code	01	01	O / ID	N = Not in Effect S = In Effect
BOL09	501	Customs Documentation Handling Code	02	02	O / ID	
BOL10	146	Shipment Method of Payment	02	02	O / ID	CC = Collect PP = Prepaid TP = Third Party
BOL11	100	Currency Code	03	03	O / ID	

B2A – Set Purpose

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
B2A01	353	Trans. Set Purpose Code	02	02	M / ID	
B2A02	346	Application Type	02	02	O / ID	Mandatory for ABF BL = Bill of Lading LT = Load Tender

MS3 Interline Information

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
MS301	140	SCAC	02	04	M / ID	SCAC
MS302	133	Routing Sequence Code	01	02	M / ID	
MS303	19	City Name	02	30	X / AN	
MS304	91	Transportation Method/Type Code	01	02	O / ID	
MS305	156	State or Province Code	02	02	O / ID	

MS2 Equipment or Container Owner and Type

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
MS201	140	SCAC	02	04	M / ID	SCAC
MS202	207	Equipment Number	01	10	X / AN	
MS204	40	Equipment Desc. Code	02	02	O / ID	
MS204	761	Equipment No. Check Digit	01	01	O / NO	
MS305	156	State or Province Code	02	02	O / ID	

L11 Business Instructions and Reference Number

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
L1101	127	Reference Identification	01	10	X / AN	
L1102	128	Reference ID. Qualifier	02	03	X / ID	
L1103	352	Description	01	80	X / AN	

G62 – Date / Time

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
G6201	432	Date Qualifier	02	02	X / ID	CCYYMMDD
G6202	373	Date	08	08	X / DT	
G6203	176	Time Qualifier	01	02	X / ID	
G6204	337	Time	04	08	X / TM	
G6205	623	Time Code	02	02	O / ID	

AT5 Bill of Lading Handling Requirements

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
AT501	152	Special Handling Code	02	03	X / ID	
AT502	560	Special Services Code	02	10	X / ID	
AT503	153	Special Handling Description	02	30	X / AN	

K1 – Remarks

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
K101	061	Free Form Message	01	30	M / AN	
K102	061	Free Form Message	01	30	O / AN	

N1 – Name

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
N101	098	Entity Identifier	02	02	M / ID	SH = Shipper Number CN = Consignee BT = Bill to Third Party
N102	093	Name	01	60	X / AN	
N103	066	ID Code Qualifier	01	02	X / ID	
N104	067	ID Code	02	20	X / AN	

N2 – Additional Name Information

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
N201	093	Name	01	60	M / AN	
N202	093	Name	01	60	O / AN	

N3 – Address Information

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
N301	166	Address	01	55	M / AN	
N302	166	Address	01	55	O / AN	

N4 – Geographic Location

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
N401	019	City Name	02	30	O / AN	
N402	156	State / Prov. Code	02	02	O / ID	Postal Alpha Code
N403	116	Postal Code	03	15	O / ID	Zip Code

G61 Contact

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
G6101	366	Contact Function Code	02	02	M / ID	
G6102	93	Name	01	60	M / AN	
G6103	365	Communication Number Qualifier	02	02	X / ID	
G6104	364	Communication No.	01	80	X / AN	

AT1 Bill of Lading Line Item Number

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
AT01	213	Lading Line Item No.	01	03	M / N0	

L11 Business Instructions and Reference Number

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
L1101	127	Reference Identification	01	10	X / AN	
L1102	128	Reference ID. Qualifier	02	03	X / ID	
L1103	352	Description	01	80	X / AN	

AT3 Bill of Lading Rates and Charges

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
AT301	58	Charge	01	12	M / N2	
AT302	1600	Freight Rate Qualifier	02	02	X / ID	
AT303	60	Freight Rate	01	09	X / R	
AT304	1601	Rate-as Qualifier	02	02	X / ID	
AT305	380	Quantity	01	15	X / R	
AT306	1602	Bill of Lading Charge Code	03	03	X / ID	
AT307	954	Percent	01	10	X / R	

AT4 Bill of Lading Description

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
AT401	79	Lading Description	01	50	M / AN	

AT2 Bill of Lading Line Item Detail

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
AT201	80	Lading Quantity	01	07	M / N0	
AT202	211	Packaging Form Code	03	03	M / ID	
AT203	187	Weight Qualifier	01	02	M / ID	
AT204	188	Weight Unit Code	01	01	M / ID	
AT205	81	Weight	01	10	M / R	
AT206	80	Lading Quantity	01	07	X / N0	
AT207	211	Packaging Form Code	03	03	M / ID	
AT209	22	Commodity Code	01	30	O / AN	
AT210	59	Freight Class Code	02	05	O / AN	

MAN – Marks and Numbers

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
MAN01	088	Marks & Numbers Qualifier	01	02	M / ID	'GM'
MAN02	087	Marks & Numbers	01	48	M / AN	Carton Number

SPO Shipment Purchase Order Detail

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
SPO01	324	Purchase Order Number	01	30	M / AN	CT = Carton PC = Piece RA = Rack
SPO02	127	Reference Identification	01	30	O / AN	
SPO03	355	Unit or Basis for Measurement Code	02	02	X / ID	
SPO04	380	Quantity	01	15	X / R	
SPO05	188	Weight Unit Code	01	01	X / ID	
SPO06	81	Weight	01	10	X / R	
SPO07	647	Application Error Condition Code	01	10	X / R	
SPO08	127	Reference ID	01	30	O / AN	

LX – Assigned Number

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
LX01	554	Assigned Number	01	06	M / NO	

MAN – Marks and Numbers

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
MAN01	088	Marks & Numbers Qualifier	01	02	M / ID	'GM'
MAN02	087	Marks & Numbers	01	48	M / AN	Carton Number

SPO Shipment Purchase Order Detail

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
SPO01	324	Purchase Order Number	01	30	M / AN	CT = Carton PC = Piece RA = Rack
SPO02	127	Reference Identification	01	30	O / AN	
SPO03	355	Unit or Basis for Measurement Code	02	02	X / ID	
SPO04	380	Quantity	01	15	X / R	
SPO05	188	Weight Unit Code	01	01	X / ID	
SPO06	81	Weight	01	10	X / R	
SPO07	647	Application Error Condition Code	01	10	X / R	
SPO08	127	Reference ID	01	30	O / AN	

G61 Contact

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
G6101	366	Contact Function Code	02	02	M / ID	
G6102	93	Name	01	60	M / AN	
G6103	365	Communication Number Qualifier	02	02	X / ID	
G6104	364	Communication No.	01	80	X / AN	

L11 Business Instructions and Reference Number

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
L1101	127	Reference Identification	01	10	X / AN	
L1102	128	Reference ID. Qualifier	02	03	X / ID	
L1103	352	Description	01	80	X / AN	

LH6 Hazardous Certification

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
LH601	93	Name	01	60	O / AN	
LH602	272	Hazardous Certification Code	01	01	X / ID	
LH603	273	Hazardous Certification Declaration	01	25	X / AN	

LH1 Hazardous Identification Information

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
LH101	355	Unit of Measurement Code	02	02	M / ID	
LH102	80	Lading Quantity	01	07	M / NO	
LH103	277	UN/NA ID Code	06	06	O / ID	
LH104	200	Hazardous Materials Page	01	06	O / AN	
LH105	22	Commodity Code	01	30	O / AN	
LH106	355	Unit of Measurement Code	02	02	O / ID	
LH107	380	Quantity	01	15	O / R	
LH108	595	Compartment ID Code	01	01	O / ID	
LH109	665	Residue Indicator Code	01	01	O / ID	
LH110	254	Packing Group Code	01	03	O / ID	
LH111	1375	Interim Hazardous Material Regulatory No.	01	05	O / AN	

LH2 Hazardous Classification Information

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
LH201	215	Hazardous Classification	01	30	O / ID	
LH202	983	Hazardous Class Qualifier	01	01	O / ID	
LH203	218	Hazardous Placard Notation	14	40	O / ID	
LH204	222	Hazardous Endorsement	04	25	O / ID	
LH205	759	Reportable Quantity Code	02	02	O / ID	
LH206	355	Unit of Measurement Code	02	02	X / ID	
LH207	408	Temperature	01	04	X / R	

LH3 Hazardous Material Shipping Name

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
LH301	224	Hazardous Material Shipping Name	01	25	X / AN	
LH302	984	Hazardous Material Shipping Name Qualifier	01	01	X / ID	
LH303	985	N.O.S. Indicator Code	03	03	O / ID	
LH304	1073	Response Code	01	01	O / ID	

LFH Freeform Hazardous Material Information

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
LFH01	808	Hazardous Material Shipment Info. Qualifier	03	03	M / ID	
LFH02	809	Hazardous Material Shipment Information	01	25	M / AN	
LFH04	1023	Hazardous Zone Code	01	01	O / ID	
LFH05	355	Unit Measurement Code	02	02	X / ID	
LFH06	380	Quantity	01	15	X / AN	

LEP EPA Required Data

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
LEP01	806	EPA Waste Stream Number Code	04	06	O / ID	
LEP02	807	Waste Characteristics Code	12	16	O / ID	
LEP03	156	State or Province Code	02	02	X / ID	
LEP04	127	Reference Information	01	30	X / AN	

SE – Transaction Set Trailer

Segment	Element	Description	Length		Option / Type	Comments
			Min	Max		
SE01	096	Number of Incl. Seg.	01	06	M / NO	Number of this segment
SE02	329	Trans. Set Control No.	04	09	M / AN	Number of trans. w/in set