



**Orano Federal Services**  
**Title: Design and Prototype Fabrication of Railcars for Transport of**  
**High-Level Radioactive Material Phase 3 – Prototype Fabrication and Delivery**  
**Appendix G**

**Doc./Rev.: EIR-3021970-000**  
**Project: 00225.03.0050 DOE Atlas Project**

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# Appendix G

## Buffer Railcar Bill of Material and Vendors



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Buffer Railcar Master Bill of Material and Vendors Listing

03/19/2019

Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Kasgro Consumable Item	1160-1	3-92	N/A	1160-45		3	6	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1	3-94	N/A	1160-45		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1	2-4	N/A	5/8-11 NC X 2" HEX BOLT		16	32	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1	2-5	N/A	5/8-11 NC X 2 1/4" HEX BOLT		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1	2-6	N/A	3/4-10 NC X 3" PLOW BOLT		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-10	3-11	N/A	PL 1" x 7" x 15' 9 1/8" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-10	3-16	N/A	PL 1" x 7" x 28' 7 1/2" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-10	3-17	N/A	PL 1" x 7" x 15' 9 1/8" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-11	3-18	N/A	PL 1" x 24" x 9' 7 3/16" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-15	3-23	N/A	PL 1/2" x 16" x 30' 4 3/8" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-15	3-28	N/A	PL 1/2" x 28 1/4" x 30' 4 3/8" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-15	3-29	N/A	PL 1/2" x 28 1/4" x 30' 4 3/8" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-16	3-32	N/A	PL 3/4" x 128" x 60' A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-17	3-33	N/A	PL 3/8" x 14 11/16" x 3' 8 3/8" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-17	3-34	N/A	PL 3/8" x 14 11/16" x 3' 3/16" A572		3	6	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-17	3-35	N/A	BAR 6" x 1/2" x 3' 5" A572		3	6	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-17	3-36	N/A	BAR 6" x 1/2" x 3' 1/4" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-17	3-37	N/A	BAR 7" x 3/8" x 8 3/16" A36		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-17	3-38	N/A	BAR 7" x 3/8" x 10" A36		22	44	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-17	3-41	N/A	BAR 4" x 1/2" x 3' 5 3/4" A36		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-18	3-39	N/A	PL 1/2" x 16" x 15' 3 11/16" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-18	3-40	N/A	PL 1/2" x 16" x 15' 3 3/8" A572		3	6	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-2	2-3	N/A	5/8 - 11 NC NYL INS L'NUT		50	100	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-3 1160-4	2-7	N/A	3/4 - 10 NC NYL INS		As required	As required	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-33	3-76	N/A	BAR 5" x 1/4" x 1' 5/8" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-6	3-1	N/A	PL 5/8" x 20" x 3' 9 7/16" A572		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-7	3-43	N/A	WT8 x 15.5 x 4' 1 1/4" A36		3	6	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-7	3-44	N/A	WT8 x 15.5 x 3' 9 3/8" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-7	3-80	N/A	W8 x 18 x 4' 1 1/4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-7	3-5	N/A	BAR 6" x 3/4" x 4' 2 1/2" A572		10	20	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-7	3-7	N/A	BAR 6" x 3/4" x 1' 7/8" A572		5	10	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-7	3-9	N/A	PL 1/2" x 12 3/4" x 1' 2 3/4" A572		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2



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Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Kasgro Consumable Item	1160-1 1160-7	3-10	N/A	W8 x 18 x 4' 1 1/4" A36		11	22	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-8	3-42	N/A	WT 3 x 5 x 2' 5 7/16" A36		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-8	3-12	N/A	WT 3 x 5 x 7' 9 3/4" A36		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-8	3-13	N/A	WT 3 x 5 x 6' 10 3/8" A36		16	32	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-8	3-14	N/A	WT 3 x 5 x 4' 4 3/8" A36		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-8	3-15	N/A	PL 1" x 30" x 26' 7 1/2" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-1 1160-9	3-31	N/A	PL 1" x 11 11/16" x 15' 9 1/8" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-13	3-66	N/A	BAR 1 1/2" x 3/4" x 1' 2" A572		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	3-71	N/A	1160-32		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	3-75	N/A	Angle 3 x 3 x 1/4 x 6 1/2" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-9	N/A	5/8 -11 NC X 2 1/2" HEX BOLT		14	28	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-10	N/A	1/2-13 NC NYL INS L'UNIT		18	36	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-11	N/A	1/2-13 NC X 2 1/4 HX BOLT		16	32	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-12	N/A	3/8-16 NC NYL INS L'NUT		16	32	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-13	N/A	3/8-16 NC X 1 1/2" HX BOLT		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-14	N/A	5/8-11 NC X 12 1/2" HX BOLT		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-15	N/A	1-8 NC X 7" HX BOLT		3	6	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-16	N/A	1-8 NC NYL INS L'NUT		3	6	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-17	562054	1/2-13 NC X 1" SLCS		10	20	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-18	N/A	1/2-13 NC X 4" HX BOLT		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-19	562005	1/2-13 NC X 1 1/2" SLCS		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-20	N/A	5/8-11 NC X 3" HX BOLT		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-21	N/A	5/8-11 NC X 4 1/2 HX BOLT		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-22	N/A	5/16 X 2 1/2" COTTER		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-23	N/A	1/2-13 NC X 1 7/8 TEE HD BOLT		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-24	265052	3/8-16 NC X 1" SLCS		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2	2-25	N/A	3/8-16 NC X 1 1/4 HEX BOLT		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-23	3-60	N/A	BAR 8" x 1/2" x 11 1/4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-23	3-62	N/A	BAR 8" x 3/8" x 10 1/2" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-23	3-63	N/A	Angle 5 x 5 x 3/8 x 8" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-24	3-64	N/A	Angle 4 x 6 x 1/4" x 6" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-24	3-65	N/A	BAR 3" x 3/8" x 10 3/4" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-24	3-66	N/A	1/2" dia x 123 3/8" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2



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Buffer	Kasgro Consumable Item	1160-2 1160-25	4-1	N/A	3/4 SCH 80 Pipe x 3' 10 9/16" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-25	4-2	N/A	3/8" Sch 80 Pipe x 2' 10 3/8" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-25	4-3	N/A	3/4" Sch 80 Pipe x 4' 3 15/16" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-32	3-68	N/A	PL 3/8" x 7 3/8" x 2' 5 1/2" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-32	3-72	N/A	BAR 5" x 3/8" x 6" A36		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-2 1160-33	3-74	N/A	Angle 3 x 3 x 1/4 x 10 13/16" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-21	3-50	N/A	PL 1/2" x 9 3/16" x 1' 1 1/4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-21	3-51	N/A	PL 1/2" x 9 3/16" x 1' 1 1/4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-21	3-52	N/A	BAR 5 1/2" x 1/2" x 7 1/2" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-21	3-53	N/A	BAR 5 1/2" x 1/2" x 7 1/2" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-22	3-55	N/A	PL 3/8" x 15 13/16" x 1' 2 3/16" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-22	3-56	N/A	PL 1/2" x 14 13/16" x 2' 3 5/8" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-22	3-57	N/A	PL 3/8" x 5 5/16" x 1' 3 11/16" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-22	3-58	N/A	BAR 4 1/2" x 1/2" x 11 1/4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-22	3-59	N/A	4" dia x 1 1/4" thk A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-23	3-78	N/A	Angle 2 x 2 x 1/4 x 1' 2 1/8" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-24	3-69	N/A	BAR 1 3/4" x 1/2" x 1 3/4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-26	4-5	N/A	1 1/4" Sch 80 Pipe x 4' 2 3/4" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-27	4-6	N/A	3/4" Sch 80 Pipe x 2' 9" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-27	4-7	N/A	1" Sch 80 Pipe x 1' 4 1/2" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-27	4-8	N/A	3/4" Sch 80 Pipe x 11' 6 3/4" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-28	4-9	N/A	3/4" Sch 80 Pipe x 5' 10 3/16" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-29	4-10	N/A	3/4" Sch 80 Pipe x 3' 1" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-30	4-11	N/A	3/4" Sch 80 Pipe x 16' 3" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-30	4-16	N/A	1 1/4" Sch 80 Pipe x 7' 5 7/8" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-31	4-12	N/A	3/4" Sch 80 Pipe x 7' 2" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-32	3-69	N/A	PL 3/8" x 7 1/2" x 1' 6 5/8" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-32	3-70	N/A	PL 3/8" x 4 5/16" x 8 3/8" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-32	3-71	N/A	Drawing D-1003-33		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-32	3-73	N/A	2 1/2" ID x 3/8" round ring A36		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-32	4-13	N/A	1 1/4" Sch 80 Pipe x 1' 3 7/8" A53		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-33	3-71	N/A	1/2" dia x 4' 3 3/16" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-33	3-77	N/A	BAR 8" x 1/4" x 10 3/4" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2



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**Title: Design and Prototype Fabrication of Railcars for Transport of**  
**High-Level Radioactive Material Phase 3 – Prototype Fabrication and Delivery**  
**Appendix G**

Doc./Rev.: EIR-3021970-000  
 Project: 00225.03.0050 DOE Atlas Project

Buffer Railcar Master Bill of Material and Vendors Listing

03/19/2019

Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Kasgro Consumable Item	1160-34	4-14	N/A	1 1/4" Sch 80 Pipe x 14' 8 3/4" A53		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-34	4-15	N/A	1 1/4" Sch 80 Pipe x 6' 7 3/16" A53		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-34	4-18	N/A	1 1/4" Sch 80 Pipe x 8' 9 11/16" A53		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-37	4-17	N/A	3/4" Sch 80 Pipe x 1' 4 11/16" A53		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-4	2-8	N/A	3/4 - 10 NC X 2" HEX BOLT A325		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-4 1160-19	3-45	N/A	3/4" dia xx 7' 6 9/16" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-4 1160-19	3-46	N/A	3/4" dia x 6' 3" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-4 1160-19	3-47	N/A	W8 x 18 x 3' 5" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-4 1160-19	3-48	N/A	PL 3/4" x 7" x 3' 5 15/16" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-4 1160-21	3-49	N/A	BAR 3 1/2" x 1/2" x 1' 1/4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-4 1160-22	3-54	N/A	BAR 4 1/2" x 1/4" x 6" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40	3-83	N/A	PL 1 1/2" x 117" x 42' 8" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40	3-84	N/A	PL 2 1/2" x 84" x 6' 9" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40	3-94	N/A	PL 2 1/2" x 84" x 7' A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40	3-95	N/A	PL 2 1/2" x 83" x 6' 11" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40	3-96	N/A	PL 2 1/2" x 82" x 6' 10" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40 1160-41	3-80	N/A	PL 2 1/2" x 120 x 43' 6" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40 1160-41	3-81	N/A	PL 2 1/2" x 119" x 43' 5" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-40 1160-42	3-82	N/A	PL 2 1/2" x 118" x 43' 4" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-43	3-84	N/A	PL 1 1/4" x 9' 8" x 43' 2" A36		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-44	3-75	N/A	BAR 1/2" x 4" dia A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-44	3-85	N/A	BAR 1/4" dia x 1' A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-44	3-86	N/A	BAR 3/8" x 5 1/2" dia.		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-44	3-87	N/A	TS 4 3/8" OD x 3 7/8" ID x 6" 1026		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-44	2-26	N/A	1 3/4-5 NC X 11" HEX BOLT		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-44	2-27	N/A	1 3/4-5 NC HEX NUT		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-45	1-92	N/A	PL 1/2" x 10 1/2" x 4' 1 1/4" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-45	1-93	N/A	PL 1/2" x 6" x 4' 1 1/4" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-45	1-94	N/A	PL 1/2" x 10 1/2" x 1' 7/8" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-45	1-95	N/A	PL 1/2" x 6" x 1' 7/8" A572		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5	2-1	N/A	7/8 - 9 NC X 3 1/2" HEX BLT		28	56	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-12	3-19	N/A	BAR 3 x 3/8" x 1' 5 1/8" Austenitic Manganese		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-12	3-20	N/A	THK to Suit x 3 3/4" x 1' 6 1/16" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2



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**Appendix G**

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 Project: 00225.03.0050 DOE Atlas Project

Buffer Railcar Master Bill of Material and Vendors Listing

03/19/2019

Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Kasgro Consumable Item	1160-5 1160-12	3-21	N/A	TS 6 x 3 x 1/2 x 1' 6 5/8" A500		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-12	3-22	N/A	BAR 3 x 3 x 2' 5 3/16" A36		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-13	3-67	N/A	BAR 6" x 1 1/2" 1' 1/16" A572		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-13	3-24	N/A	PL 1/2" x 18 1/16" x 7' 9 3/8" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-13	3-25	N/A	BAR 5 9/16" x 1" x 6' 11 1/2" A572		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-13	3-30	N/A	BAR 2 5/8" x 3/8" x 1' 2 7/8" A572		2	4	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-14	3-78	N/A	PL 1/2" x 28 1/4" x 16' 4 15/16" A633		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-14	3-79	N/A	PL 1/2" x 28 1/4" x 16' 4 15/16" A633		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-14	3-26	N/A	PL 1/2" x 28 1/4" x 16' 4 15/16" A633		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-5 1160-14	3-27	N/A	PL 1/2" x 28 1/4" x 16' 4 15/16" A633		1	2	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-6	3-2	N/A	PL 1/2" x 14 3/4" x 4' 1 1/1" A572		8	16	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-6	3-3	N/A	BAR 8" x 1/2" x 1' 7/8" A572		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-6	3-4	N/A	BAR 6" x 3/8" x 1' 8" A36		4	8	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-7	3-6	N/A	PL 1/2" x 23 3/8" x 4' 1 1/4" A572		10	20	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	1160-7	3-8	N/A	PL 1/2" x 23 3/8" x 1' 7/8" A572		5	10	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Consumable Item	Various	2-2	N/A	7/8 - 9 NYL INS L'NUT		28	56	ea	Kasgro Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-12	N/A	1 3/4" dia Center Pin		2	4	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-18	N/A	6 1/2 x 9 Axles, Raised Wheel Seat		3	6	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-20	N/A	Bearing Adapter		8	16	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-21	F4638	DROP IN TRUCK WEAR LINER		2	4	ea	Astralloy	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-22	1025	RETAINING KEY		8	16	ea	PA Railcar	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-28	S4D-6511-09	GRAB IRON		1	2	ea	ARI	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-29	S4D-6513-03	GRAB IRON		7	14	ea	ARI	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-30	N/A	Constant Contact Side Bearing		4	8	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-1	1-31	791-8	SIDE BEARING WEDGE		4	8	ea	Stucki	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-19	1-34	1026	JAW FOR 3/4" ROD		3	6	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-19	1-35	2556 SCHAFFER	EYE FOR 3/4 ROD		1	2	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-51	781258	EP60 Valve		1	2	ea	NYABCO	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-52	7140-DN	Retaining Valve		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-53	95495	Branch Pipe Tee		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-54	577071	Dirt Collector/Cutout Cock		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-55	30191	1 1/4 Pipe Anchor		8	16	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-56	3594X	1 1/4 Wedge		8	16	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2



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Buffer Railcar Master Bill of Material and Vendors Listing

03/19/2019

Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Kasgro Stock Inventory Item	1160-2	1-57	2457	3/4 Pipe Anchor		9	18	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-58	2356	3/4 Wedge		9	18	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-59	96825	Reservoir		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-60	EN DIS 4RH-FD-125	Angle Cock		2	4	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-61	EHS	HOSE SUPPORT		2	4	ea	Strat0	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-63	AAR-300	1 1/4 COUPLING		4	8	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-65	90034-281	ANGLE COCK U-BOLT		2	4	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-66	98903	3/4 X 3/4 X 3/4 TEE BODY		1	2	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-67	578219	HOSE ASSEMBLY		2	4	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-71	94977	Cotter		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-72	FA2877NPN0500	Hose Assembly		2	4	ea	AEROUQUIP	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-74	1B3280	Hose Clamp		2	4	ea	ACF	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-75	N/A	1/4" Proof Coil Chain x 24"		2	4	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-76	N/A	1/4" 'S' Hook		2	4	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2	1-77	779971	CCD Valve		1	2	ea	NYABCO	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-2 1160-27	1-49	93986	1" GASKET		2	4	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-20	1-38	N/A	18 Ga x 5" x 1' 1 1/4" SS		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-25	1-44	565252	3/8 SOCKET WELD FTG		2	4	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-25	1-45	93839	3/8 GASKET		2	4	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-25 1160-27 1160-28 1160-29 1160-31 1160-37	1-42	565256	3/4 SOCKET WELD FTG		15	30	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-25 1160-27 1160-28 1160-29 1160-31 1160-37	1-43	93841	3/4 GASKET		15	30	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-27	1-48	565259	1" SOCKET WELD FTG		2	4	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-27 1160-29 1160-30	1-50	580042	3/4 SOCK FTG NO GASKET		5	10	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-3	1-74	N/A	Route Card Board w/ Board		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-3	1-75	N/A	Defect Card Holder		1	2	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-30 1160-34	1-46	565262	1 1/4 SOCKET WELD FTG		6	12	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-30 1160-34	1-47	94790	1 1/4 GASKET		6	12	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-34	1-73	582474	1 1/4" Socket Flg No Gasket		6	12	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2



**Orano Federal Services**  
**Title: Design and Prototype Fabrication of Railcars for Transport of**  
**High-Level Radioactive Material Phase 3 – Prototype Fabrication and Delivery**  
**Appendix G**

Doc./Rev.: EIR-3021970-000  
 Project: 00225.03.0050 DOE Atlas Project

Buffer Railcar Master Bill of Material and Vendors Listing

03/19/2019

Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Kasgro Stock Inventory Item	1160-4	1-32	8030	1 3/32 X 3 1/2" BRAKE PIN		4	8	ea	General Bearing	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-4	1-33	3700011	5/16 X 2 1/2 LOCKTITE COTTER		4	8	ea	General Bearing	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-4	1-37	EN 1749	SHEAVE WHEEL		1	2	ea	Amsted Rail	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-4	1-38	D-1003-20	BRAKE BADGE PLATE		1	2	ea	Specialty Metals	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-4	1-39	8015	1 3/32 X 6" BRAKE PIN		1	2	ea	General Bearing	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-4	1-40	EN 458	CLEVIS		1	2	ea	Amsted Rail	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-4	1-41	EN 240	RIVET		1	2	ea	Amsted Rail	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-4	1-27	7900	HAND BRAKE		1	2	ea	Amsted Rail	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-5	1-5	570L241204	Bolt 7/8-9 x 9"		2	4	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-5	1-6	15376	7/8-9 Locknut		2	4	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-5	1-7	19566	7/8 Hardened Washer		2	4	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	1160-5	2-2	N/A	7/8-9 NC Collar		28	56	ea	AAR Approved Vendor	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	Various	1-36	7264	1/2" HAMMERLOCK FITTING		1	2	ea	Amsted Rail	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	Various	1-64	93839	3/8 GASKET		2	4	ea	Wabtec	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	Various	1-7	V-674	BRAKE SHOE		8	16	ea	Airek	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	Various	1-8	TTEF-15W	UNCOUPLING LEVER ASSEMBLY		2	4	ea	Rollform Group	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	Various	1-12	BB624-RH	#24 BRAKE BEAM-RH		2	4	ea	Miner Ent	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	Various	1-13	BB624-LH	#24 BRAKE BEAM-LH		2	4	ea	Miner Ent	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Kasgro Stock Inventory Item	Various	1-14	TCC-III-60LT	TRUCK SIDE BEARING		4	8	ea	Miner Ent	N/A	In stock via Minimum Re-Order (MRO) system	N/A	N/A	2
Buffer	Purchased Matl	1160-1	1-11	4067	16" DIA LOW PROFILE CENTER PLATE		2	4	ea	Amsted Rail	K18-0001	4 Received via Form 69 on 2/15/18	KAS-050	B-PIR 4067	2
Buffer	Purchased Matl	1160-5	1-10		43" EF CPLR Top and Bottom Shelf	Part of SE68DE01-N	2	4	ea	McConway & Torley	K17-0359	Received 1/3/18	KAS-051	B-PIR SE68DE01-N	2
Buffer	Purchased Matl	1160-5	1-11	17773	Carrier Plate		2	4	ea	Amsted Rail	K18-0118	4 Received via Form 69 on 06/28/2018	KAS-110 Form 69 06/28/18	B-PIR 17773	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1/4" X 96" X 240" A36	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-010318-010 / CMTR #821Y01780	KAS-064	B-PIR Plate 0.25x96x240	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 3/8" X 96" X 240" A36	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-010318-011 / CMTR #821Y01750	KAS-065	B-PIR Plate 0.375x96x240A36	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 3/8" X 96" X 240" A572-50	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-010318-012 / CMTR #7503454	KAS-066	B-PIR Plate 0.375x96x240A572-50	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1/2" X 96" X 240" A572-60	Buffer Car Plate Steel PO changed from A633 to A572-60	1	2	ea	Triad Metals	K17-0371	KMC-040918-004 / CMTR 811A09750	KAS-097	B-PIR Plate 0.5x96x240 A572-60	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1/2" X 96" X 240" A36	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-010318-013 / CMTR #812W46730	KAS-067	B-PIR Plate 0.5x96x240A36	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1/2" X 96" X 240" A572-50	Buffer Car Plate Steel	1	2	ea	Triad Metals	K17-0371	KMC-010318-003 / CMTR #811W16430	KAS-057	B-PIR Plate 0.5x96x240A572-50	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1/2" X 96" X 240" A572-60	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-021318-004 / CMTR #8500243	KAS-072	B-PIR Plate 0.5x96x240A572-60	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1/2" X 96" X 480" A572-50	Buffer Car Plate Steel	1	2	ea	Triad Metals	K17-0371	1- KMC-021918-003 / CMTR #811W16430 1- KMC-032618-001 / CMTR #811W16430	KAS-075 KAS-093	B-PIR Plate 0.5x96x480	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 5/8" X 96" X 240" A572-60	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-021918-004 / CMTR #8500243	KAS-076	B-PIR Plate 0.625x96x240	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 3/4" X 11-1/2' X 61' A572-50	Buffer Car Plate Steel	1	2	ea	Triad Metals	K17-0371	1- KMC-031418-001 / CMTR #823265170 1- KMC-031418-002 / CMTR #811206070	KAS-088 KAS-089	B-PIR Plate 0.75x11.5x61	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 3/4" X 96" X 240" A572-50	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-010318-006 / CMTR #D1755	KAS-060	B-PIR Plate 0.75x96x240A572-50	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1-1/2" X 10' X 45' A36	Buffer Car Plate Steel	1	2	ea	Triad Metals	K17-0371	KMC-011118-001 / CMTR #7507360 KMC-022218-002 / CMTR #8500456	KAS-068 KAS-078	B-PIR Plate 1.5x10x45	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1" X 96" X 240" A572-50	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-010318-005 / CMTR #811W00780	KAS-059	B-PIR Plate 1x96x240	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 1" X 96" X 360" A572-50	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-010318-004 / CMTR #D1702	KAS-058	B-PIR Plate 1x96x360	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 2-1/2" X 10-1/2' X 45' A36	Buffer Car Plate Steel	3	6	ea	Triad Metals	K17-0371	2 - KMC-050818-001 / CMTR #D3283 2 - KMC-060518-009 / CMTR #D3642 2 - KMC-060518-001 / CMTR #D3742	KAS-099 KAS-101 KAS-102	B-PIR Plate 2.5x10.5x45 A36	2





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**Appendix G**

Doc./Rev.: EIR-3021970-000  
 Project: 00225.03.0050 DOE Atlas Project

Buffer Railcar Master Bill of Material and Vendors Listing

03/19/2019

Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 2-1/2" X 10-1/2' X 61' A36	Buffer Car Plate Steel	3	6	ea	Triad Metals	K17-0371	KMC-032018-001 / CMTR #D3081 KMC-032118-001 / CMTR #D3081 KMC-032118-002 / CMTR #D3081	KAS-090 KAS-091 KAS-092	B-PIR Plate 2.5x10.5x61 A36	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 2-1/2" X 96" X 360 A36	Buffer Car Plate Steel	2	4	ea	Triad Metals	K17-0371	KMC-022718-001 / CMTR #7507792 KMC-022718-002 / CMTR #7507792 KMC-022718-003 / CMTR #8500149 KMC-022718-004 / CMTR #8500149	KAS-081 KAS-082 KAS-083 KAS-084	B-PIR Plate 2.5x96x360	2
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 3" X 48" X 48" A572-50	Buffer Car Plate Steel	.5	1	ea	Triad Metals	K17-0371	KMC-040918-008 / CMTR #D3140 Received piece 3" x 96" x 144" due to minimum size of mill run	KAS-096	B-PIR Plate 3x48x48 A572-50	2
Buffer	Purchased Matl		1-9	AARY-47	COUPLER PIN		2	4	ea	McConway & Torley	K17-0359	Received 1/3/18	KAS-052	B-PIR Y-47	2
Buffer	Purchased Matl		1-10	SE68DE01-N	COUPLER TYPE E-43 F Shank	Revised from original BOM P/N EF-511; SNs 1, 4, 5, 6 (or 8 - checking with supplier on legibility)	2	4	ea	McConway & Torley	K17-0359	Received 1/3/18	KAS-051	B-PIR SE68DE01-N	2
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-39-3-135	Nut Assy. For Center Pins	Cask Car Machined Steel Part	6	6	ea	KD Machine	K17-0353	Received 11/30/17	KAS-040	A-PIR 1155-39-3-135	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-39-3-139	Support Plate-Machine Only	Cask Car Machined Steel Part	4	4	ea	KD Machine	K17-0353	Received 11/30/17	KAS-039	A-PIR 1155-39-3-139	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-39-3-141	Inboard & Outboard Self Locking Center Pin	Cask Car Machined Steel Part	4	4	ea	KD Machine	K17-0353	Received 11/30/17	KAS-042	A-PIR 1155-39-3-141	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-39-3-142	Center Self Locking Center Pin	Cask Car Machined Steel Part	2	2	ea	KD Machine	K17-0353	Received 11/30/17	KAS-041	A-PIR 1155-39-3-142	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	D-1118-4D-3-20	Center Bowl Ring	Cask Car Machined Steel Part	4	4	ea	KD Machine	K17-0353	Received 12/4/17	KAS-038	A-PIR D-1118-4D-3-20	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-10-3-15	Deck Plate	Cask Car Formed Steel	1	1	ea	Triad Metals	K17-0370	Received 4/12/18 CMTR #D2569	KAS-104	A-PIR 1155-10-3-15	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-12-3-26	Bottom Flange	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Received 4/23/18 CMTR #82236500	KAS-103	A-PIR 1155-12-3-26	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-13-3-27	Center Sill Web	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Received 6/11/18 CMTR #811A10680	KAS-105	A-PIR 1155-13-3-27	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-13-3-28	Center Sill Web	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Received 6/11/18 CMTR #811A10680	KAS-105	A-PIR 1155-13-3-28	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-14-3-31	Side Sill Web	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Received 6/11/18 CMTR #D1431	KAS-106	A-PIR 1155-14-3-31	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-14-3-32	Side Sill Web	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Received 6/11/18 CMTR #D1431	KAS-106	A-PIR 1155-14-3-32	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-16-3-36	Center Sill Web	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Received 6/11/18 CMTR #D1431	KAS-106	A-PIR 1155-16-3-36	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-16-3-37	Center Sill Web	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Received 6/11/18 CMTR #D1431	KAS-106	A-PIR 1155-16-3-37	4
Atlas	Purchased Matl	Raw Matl	Raw Matl	1155-9-3-11	Center Plate	Cask Car Formed Steel	2	2	ea	Triad Metals	K17-0370	Form 69 Center Plates 4/18/18 DTF-024	Form 69 04/18/18	A-PIR 1155-9-3-11	4
Atlas	Purchased Matl		1-4	343-L	TRUCK MOUNTED BRAKE SYSTEM		6	6	ea	AMSTED RAIL	K17-0351	6 - TMB343-L Received 3/5/18	KAS-035	A-PIR TMB-343-L	4
Atlas	Purchased Matl		1-6	11865	E15G CUSHIONING UNIT	SNs: NKRC 1180501651X, NKRC 11805016990	2	2	ea	AMSTED RAIL	K17-0352	Received 1/10/18	KAS-048	AB-PIR 11865	4
Atlas	Purchased Matl		1-8	DB60II	OVERLAY BRAKE SYSTEM	Parts per listing 1909-2 Rev 01; Revised from original BOM P/N EP60	2	2	ea	NEW YORK AIR BR	K17-0355	Received 12/20/17	KAS-036	A-PIR DB60II	4
Atlas	Purchased Matl		1-9	18094	E-YOKE ASSEMBLY		2	2	ea	AMSTED RAIL	K17-0352	Received 1/10/18	KAS-047	A-PIR 18094	4
Atlas	Purchased Matl		N/A	Model 89300	SYSTEM SAFETY MONITORING	Total qty for Atlas = 2	2	2	ea	Lat-Lon	K17-0358	2 Received 07/03/18	Form 69 07/03/18	AB-PIR-Lat-Lon 89300	4
Buffer	Purchased Matl	1160-2	1-68	512708	Handler	Part of DB-60II Brake System	1	2		New York Air Brake	K17-0362	Received 1/3/18 as part of DB60II	KAS-037	B-PIR DB60II	4
Buffer	Purchased Matl	1160-2	1-69	96472	Strainer	Part of DB-60II Brake System	1	2		New York Air Brake	K17-0362	Received 1/3/18 as part of DB60II	KAS-037	B-PIR DB60II	4
Buffer	Purchased Matl	1160-2	1-70	502574	Vent Protector	Part of DB-60II Brake System	1	2		New York Air Brake	K17-0362	Received 1/3/18 as part of DB60II	KAS-037	B-PIR DB60II	4
Buffer	Purchased Matl	1160-5	1-1	11865	15G-B EOC Unit	Part of E15G CUSHIONING UNIT	2	4		Amsted Rail	K17-0352	Received 1/10/18	KAS-048	AB-PIR 11865	4
Buffer	Purchased Matl	1160-5	1-2	11865	Y-47 Coupler Pin	Part of E15G CUSHIONING UNIT	2	4		Amsted Rail	K17-0352	Received 1/10/18	KAS-048	AB-PIR 11865	4
Buffer	Purchased Matl	1160-5	1-3	5462	YF-15-J Yoke	Part of E15G CUSHIONING UNIT	4	8		Amsted Rail	K17-0352	Received 1/10/18	KAS-048	AB-PIR 11865	4
Buffer	Purchased Matl	1160-5	1-4	Q70L165700	Draft Pin Support	Part of E15G CUSHIONING UNIT		0		Amsted Rail	K17-0352	Received 1/10/18	KAS-048	AB-PIR 11865	4
Buffer	Purchased Matl	1160-5	1-8	9462	Front Draftstop		4	8	ea	Amsted Rail	K18-0118	4 Received via Form 69 on 06/28/2018	KAS-0108 Form 69 06/28/18	B-PIR 9462	4
Buffer	Purchased Matl	1160-5	1-9	9631	Top Wear Plate		2	4	ea	Amsted Rail	K18-0118	4 Received via Form 69 on 06/28/2018	KAS-0109 Form 69 06/28/18	B-PIR 9631	4
Buffer	Purchased Matl	N/A	1-3	11865	E15G CUSHIONING UNIT	SNs: NKRC1180100162X, NKRC 11801001653, NKRC 11712020059, NKRC 11801001783	2	4	ea	Amsted Rail	K17-0352	Received 1/10/18	KAS-048	AB-PIR 11865	4



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 Appendix G

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 Project: 00225.03.0050 DOE Atlas Project

Buffer Railcar Master Bill of Material and Vendors Listing

03/19/2019

Atlas or Buffer	Category	KASGRO DWG No.	BOM Item No.	Dwg Number &/or Mfg Part Number	Description	Comment	Quantity per Car	Quantity Ordered	Unit	Vendor	Kasgro PO No.	Status	Form 69 or KAS #	PIR File Name	CLIN 3, Event #
Buffer	Purchased Matl	N/A	1-4	F-15 J	YOKE ASSEMBLY		2	4	ea	Amsted Rail	K17-0352	F-Yoke Assy Received 1/10/18	KAS-047	B-PIR F-15J	4
Buffer	Purchased Matl	N/A	1-5	DB60II	OVERLAY BRAKE SYSTEM	Assy parts per individual PO part listing; Revised from original BOM P/N EP60	1	2	ea	New York Air Brake	K17-0362	Received 1/3/18	KAS-037	B-PIR DB60II	4
Buffer	Purchased Matl	N/A	1-24	TMB-294-R	TRUCK MOUNTED BRAKE SYSTEM	Replaced by TMB-343-L	2	4	ea	Amsted Rail	K17-0351	4 - TMB-294-R Received 3/5/18	KAS-035	B-PIR TMB-294-R	4
Buffer	Purchased Matl	N/A	1-24	TMB-343-L	TRUCK MOUNTED BRAKE SYSTEM	Replaced TMB-294-R units	2	4	ea	Amsted Rail	K18-0106	4 - TMB-294-R Received 3/5/18	KAS-035A	B-PIR TMB-294-R	4
Buffer	Purchased Matl	N/A	N/A	Model 89300	SYSTEM SAFETY MONITORING	Total Qty ordered = 2	1	2	ea	Lat-Lon	K17-0358	2 Received 07/03/18	KAS-111	AB-PIR Lat-Lon 89300	4
Buffer	Purchased Matl	Raw Matl	Raw Matl	1160-44-2-26	Locking Center Pin	Buffer Car Machined Steel Part	4	8	ea	KD Machine	K17-0357	Received 1/11/18	KAS-044	B-PIR 1160-44-2-26	4
Buffer	Purchased Matl	Raw Matl	Raw Matl	1160-44-3-75	Center Pin Washer	Buffer Car Machined Steel Part	4	8	ea	KD Machine	K17-0357	Received 1/11/18	KAS-045	B-PIR 1160-44-3-75	4
Buffer	Purchased Matl	Raw Matl	Raw Matl	1160-44-3-86	Center Pin Cover	Buffer Car Machined Steel Part	4	8	ea	KD Machine	K17-0357	Received 1/11/18	KAS-043	B-PIR 1160-44-3-86	4
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 2" x 96" x 240" A572-50	Buffer Car Machined Steel Part	.5	1	ea	Triad Metals	K17-0372	KMC-051418-001 / CMTR #813266750	KAS-100	B-PIR Plate 2x96x240 A572-50	4
Buffer	Purchased Matl	Raw Matl	Raw Matl	N/A	Plate 4-1/4" x 98" x 98" A572-50	Buffer Car Machined Steel Part	.5	1	ea	Triad Metals	K17-0372	KMC-040918-005 / CMTR #D2567	KAS-098	B-PIR Plate 4.25x98x98 A572-50	4
Atlas	Purchased Matl	N/A	1-10	61936	WHEEL SET ASSEMBLIES	See worksheet "Wheel Set SNs" for serial numbers	12	12	sets	PROGRESS RAIL	K17-0350	Received 1/9/18	KAS-034	AB-PIR 61936	5
Buffer	Purchased Matl	N/A	1-15	61936	WHEEL SET ASSEMBLIES	See worksheet "Wheel Set SNs" for serial numbers	4	8	sets	Progress Rail	K17-0350	Received 1/9/18	KAS-034	AB-PIR 61936	5
Atlas	Purchased Matl	N/A	1-3	SM110	SWING MOTION TRUCK ASSEMBLY	Atlas - Atlas Car Trucks	6	6	ea	AMSTED RAIL	K17-0363	Received 08/14/18	Form 69 08/14/18	A-PIR SM110	6
Buffer	Purchased Matl	N/A	1-1	AS-541-1	SWING MOTION TRUCK ASSEMBLY	Buffer - Buffer Car Trucks	2	4	ea	Amsted Rail	K17-0361	KMC-0490918-005 / HT #D2567	KAS-112 Form 69 06/25/18	B-PIR AS-541-1	6