

REQUEST TO AMEND CERTIFICATE OF COMPLIANCE USA/9316/B(U)-96

DOCKET NO. 71-9316

Attachment: Section 1.3.1 (09-13-2017)

1.3.1 AOS Transport Packaging System, Certification Drawings

Table 1-5 lists the certification drawings for the AOS Transport Packaging System’s assembly, impact limiter, cask, and linear/axial shielding plates, by model.

Table 1-5 AOS Transport Packaging System Certification Drawing List – All Models

Component	Drawing Part Number and Revision, by Model									
	AOS-025A	Rev.	AOS-050A	Rev.	AOS-100A	Rev.	AOS-100B	Rev.	AOS-100A-S	Rev.
Assembly	166D8142	J	105E9718	J	105E9711	J	105E9711	J	105E9711	J
Impact Limiter	105E9722	I	166D8138	I	105E9713	J	105E9713	J	105E9713	J
Cask^a	166D8143	I	166D8137	I	105E9712G001	K	105E9712G002	K	105E9719	K
Liner	183C8485	H	---	---	---	---	---	---	---	---
Axial Shielding Plates	---	---	183C8519	A	183C8491	I	---	---	183C8491	I
Cavity Spacer Plates	---	---	---	---	183C8518	B	---	---	183C8518	B

a. The G00x number appended to select drawing numbers represents a group within the drawing

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
166D8142 REV. J	SHEET 1 NOTE 7	APPLY VIBRA-TITE THREAD SEALANT COMPOUND OR EQUIVALENT	-DELETE-	CONFLICTS WITH NOTE 6
	SHEET 1 PARTS LIST ITEM 4	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6-TYPE TEMPER; ASME SB-209 AND SB-211 ALLOY 6061-T6-TYPE TEMPER	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 ALLOY 6061-T6 TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 7	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6-TYPE TEMPER; ASME SB-209 AND SB-211 ALLOY 6061-T6-TYPE TEMPER (STRUCTURAL); ASME SB-209 3003 (EXPANDED METAL)	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 ALLOY 6061-T6 TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER (STRUCTURAL); ASME SB-209 3003 OR ASTM B-209-3003 (EXPANDED METAL)	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 8	HEX BOLT 3/8-16 UNC x 5/8 LG	HEX OR HEX FLANGE BOLTS 3/8"-16 UNC X 5/8" LG	ALTERNATIVE TO ITEM 8; TO REDUCE ADJACENT MATERIAL WEAR
	SHEET 1 PARTS LIST ITEM 12	---	ADD ITEM 12; QTY 8 3/8" FLAT WASHER DETAIL DRAWING 18-8 STAINLESS STEEL PER ASME B18.21.1, TYPE B, MCMASTER CARR PN 92217A525 OR EQUIVALENT SAFETY CLASSIFICATION "NITS"	TO BE USED WITH ITEM 8; TO REDUCE ADJACENT MATERIAL WEAR
	SHEET 2 CENTER VIEW	HEX BOLT 3/8-16 UNC X 5/8 LG, SST ASME SA-193 GRADE B6 8X; ITEM 8; TRIANGLE NOTES 4 AND 7	HEX BOLT 3/8-16 UNC X 5/8 LG, SST ASME SA-193 GRADE B6 8X (ITEM 12 OPTIONAL); ITEM 8 AND 12 ; TRIANGLE NOTE 4	IDENTIFICATION OF ITEMS FOR ALTERNATIVE METHODS FOR SHIPPING CAGE CLOSURE; DELETION OF NOTE 7
	166D8143 REV. I	SHEET 1 NOTE 6	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED.	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED, IN-SERVICE, SURFACE FINISH WILL BE MAINTAINED USING HAND-FINISHING OR MECHANICAL TECHNIQUES; ELECTROPOLISHING IS OPTIONAL.
SHEET 1 NOTE 14		APPLY THREAD SEALANT LOCTITE NO. 5770 TO THREAD PRIOR TO INSTALLATION	APPLY THREAD SEALANT LOCTITE NO. 5770 OR LOCTITE THREAD SEAL TAPE NO. 39904 TO THREADS S PRIOR TO INSTALLATION	ALTERNATE METHOD OF PROVIDING LUBRICATION TO PIPE THREADS

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
166D8143 REV. I	SHEET 1 PARTS LIST ITEM 4	TUNGSTEN ATI DENSALLOY ® SD 180 PER SAE AMS 7725D TYPE 2 CLASS 3	TUNGSTEN ATI DENSALLOY ® SD 180 PER AMS-T-21014 CLASS 3	UPDATE TO CURRENT MATERIAL DESIGNATION; CLARIFICATION TO BE CONSISTENT WITH OTHER ITEMS
	SHEET 1 PARTS LIST ITEM 8	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL PROPERTIES PER AMS 4500 OR 4602	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 15	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL PROPERTIES PER AMS 4500 OR 4602	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
166D8143 REV. I	SHEET 2 DETAIL K	(AT ITEM 27) TORQUE: 5 LB.-IN. (0.5 n-M) (LUB)	(AT ITEM 27) TORQUE: 5 LB.-IN. (0.5 n-M) (LUB) AS REQUIRED	LUBRICATION IS PROVIDED BY THE MICROSEAL 100-1 (REFER TO NOTE 13) APPLIED TO THE PART TO PREVENT GALLING
	SHEET 2 DETAIL K	(AT ITEM 22) 1-64 UNC-2A .154 LG. HANDTIGHT	(AT ITEM 22) 1-64 UNC-2A .154 LG. HANDTIGHT (LUB)	ADDITION OF REQUIREMENT TO PREVENT GALLING

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
105E9718 REV. J	SHEET 1 NOTE 6	APPLY VIBRA-TITE THREAD SEALANT COMPOUND OR EQUIVALENT	-DELETE-	CONFLICTS WITH NOTE 9
	SHEET 1 PARTS LIST ITEM 4	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6-TYPE TEMPER; ASME SB-209 AND SB-211 ALLOY 6061-T6-TYPE TEMPER	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 ALLOY 6061-T6 TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 5	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6-TYPE TEMPER; ASME SB-209 AND SB-211 ALLOY 6061-T6-TYPE TEMPER (STRUCTURAL); ASME SB-209 3003 (EXPANDED METAL)	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 SB-211 ALLOY 6061-T6 TEMPER OR ASTM B-209 OR B-211 ALLOY 6061 TEMPER (STRUCTURAL); ASME SB-209 3003 OR ASTM B-209 3003 (EXPANDED METAL)	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 6	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6-TYPE TEMPER; ASME SB-209 AND SB-211 ALLOY 6061-T6-TYPE TEMPER	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 ALLOY 6061-T6 TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 7	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6-TYPE TEMPER; ASME SB-209 AND SB-211 ALLOY 6061-T6-TYPE TEMPER	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 ALLOY 6061-T6 TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 8	HEX BOLT 3/8-16 UNC x 5/8 LG	HEX OR HEX FLANGE BOLTS 3/8"-16 UNC X 5/8" LG	ALTERNATIVE TO ITEM 8; TO REDUCE ADJACENT MATERIAL WEAR
	SHEET 1 PARTS LIST ITEM 10	ASME SA-240 / ASTM A240 OR ASME SA-479/ASTM A479, TYPE 304 OR 316	ASME SA-240 / ASTM A240 OR ASME SA-479/ASTM A479, TYPE XM-19	CORRECTION OF MATERIAL DESIGNATION TO COINCIDE WITH SAR REQUIREMENTS
	SHEET 1 PARTS LIST ITEM 11	ASME F1145-05 TYPE 1, GRADE 1	ASTM F1145 TYPE 1, GRADE 1 (STEEL, FORGED, GALVANIZED)	UPDATE TO CURRENT MATERIAL DESIGNATION; CLARIFICATION TO BE CONSISTENT WITH OTHER ITEMS
	SHEET 1 PARTS LIST ITEM 13	ALUMINUM AMS 4025, ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6-TYPE TEMPER; ASME SB-209 (STRUCTURAL); ASME SA-193/ASTM A193 GRADE B6 UNS S41000 AND ASME SA-194/ASTM A194 GRADE 6 UNS S41000 (HARDWARE)	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 ALLOY 6061-T6-TYPE TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER (STRUCTURAL); ASME SA-193/ASTM A193 GRADE B6 UNS S41000 OR ASME SA-194/ASTM A194 GRADE 6 UNS S41000 (HARDWARE)	TO CORRECT TYPOGRAPHICAL (REDUNDANT) ERROR; TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
105E9718 REV. J	SHEET 1 PARTS LIST ITEM 14	---	ADD ITEM 14; QTY 8 3/8" FLAT WASHER DETAIL DWG 18-8 STAINLESS STEEL PER ASME B18.21.1, TYPE B, MCMASTER CARR PN 92217A525 OR EQUIVALENT SAFETY CLASSIFICATION "NITS"	TO BE USED WITH ITEM 8; TO REDUCE ADJACENT MATERIAL WEAR
105E9718 REV. J	SHEET 2 ITEM 10 TURNBUCKLE	.76 --- --- .82 --- --- Ø .25 .09 1.00 Ø .14 .343 ---	.73 .67 .70 .86 R 1.88 2X R .13 Ø .50 .13 1.13 Ø.25 .38 .06	SIZE CHANGE IMPROVES RIGIDITY OF TURNBUCKLE ASSEMBLY (INCLUDES REPRESENTATION OF PARTS IN LEFT AND CENTER VIEWS)
	SHEET 2 CENTER VIEW	HEX BOLT; ITEM 8; TRIANGLE NOTES 4 AND 7 TRIANGLE NOTE 9	HEX BOLT (ITEM 14 OPTIONAL); ITEM 8 AND 14 ; TRIANGLE NOTE 4 TRIANGLE NOTE 8	IDENTIFICATION OF ITEMS FOR ALTERNATIVE METHODS FOR SHIPPING CAGE CLOSURE; DELETION OF NOTE 7; RE-NUMBERED NOTE
166D8137 REV. I	SHEET 1 NOTE 7	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED.	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED, IN-SERVICE, SURFACE FINISH WILL BE MAINTAINED USING HAND-POLISHING OR MECHANICAL TECHNIQUES; ELECTROPOLISHING IS OPTIONAL.	PROVIDES ALTERNATE METHOD(S) OF MAINTAINING SURFACE CONDITION REQUIREMENTS
	SHEET 1 NOTE 14	APPLY THREAD SEALANT LOCTITE NO. 5770 TO THREAD PRIOR TO INSTALLATION	APPLY THREAD SEALANT LOCTITE NO. 5770 OR LOCTITE THREAD SEAL TAPE NO. 39904 TO THREADS PRIOR TO INSTALLATION	ALTERNATE METHOD OF PROVIDING LUBRICATION TO PIPE THREADS
	SHEET 1 PARTS LIST ITEM 8	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
			PROPERTIES PER AMS 4500 OR 4602	
166D8137 REV. I	SHEET 1 PARTS LIST ITEM 15	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLER BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL PROPERTIES PER AMS 4500 OR 4602	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 24	TUNGSTEN ATI DENSALLOY ® SD 180 PER SAE AMS 7725D TYPE 2 CLASS 3	TUNGSTEN ATI DENSALLOY ® SD 180 PER AMS-T-21014 CLASS 3	UPDATE TO CURRENT MATERIAL DESIGNATION; CLARIFICATION TO BE CONSISTENT WITH OTHER ITEMS
166D8137 REV. I	SHEET 2 DETAIL K	(AT ITEM 26) TORQUE: 22 LB.-IN. (2.5 n-M) (LUB)	(AT ITEM 26) TORQUE: 22 LB.-IN. (2.5 n-M) (LUB) AS REQUIRED	LUBRICATION IS PROVIDED BY THE MICROSEAL 100-1 (REFER TO NOTE 13) APPLIED TO THE PART TO PREVENT GALLING
	SHEET 2 SECTION B-B	5.701	-DELETE-	INCORRECT DIMENSION; REDUNDANT WITH Ø 5.722 SHOWN IN SECTION M-M

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
105E9711 REV. J	SHEET 1 NOTE 7	APPLY VIBRA-TITE THREAD SEALANT COMPOUND OR EQUIVALENT	-DELETE-	CONFLICTS WITH NOTE 6
	SHEET 1 PARTS LIST ITEM 4	ASTM F1145 TYPE 1	ASTM F1145 TYPE 1, GRADE 1 (STEEL, FORGED, GALVANIZED)	UPDATE TO CURRENT MATERIAL DESIGNATION; CLARIFICATION TO BE CONSISTENT WITH OTHER ITEMS
	SHEET 1 PARTS LIST ITEM 8	ASTM F1145 TYPE 1	ASTM F1145 TYPE 1, GRADE 1 (STAINLESS STEEL, FORGED)	UPDATE TO CURRENT MATERIAL DESIGNATION; CLARIFICATION TO BE CONSISTENT WITH OTHER ITEMS
	SHEET 1 PARTS LIST ITEM 9	FRAME: ASME SB209, OR SB-211, ALLOY 6061- T6-TYPE TEMPER MESH: ASME SA-240/ASTM A240, TYPE 304 STAINLESS STEEL	FRAME: ASME SB-209 OR SB-211 ALLOY 6061- T6 TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER , MESH: ASME SA-240/ASTM A240, TYPE 304 STAINLESS STEEL	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 10	HEX BOLTS 1/2"-13 UNC x 1.5"	HEX OR HEX FLANGE BOLTS 1/2"-13 UNC X 5/8" LG	ALTERNATIVE TO ITEM 8; TO REDUCE ADJACENT MATERIAL WEAR
	SHEET 1 PARTS LIST ITEM 12	ALUMINUM AMS 4025, ALUMINUM AMS 4025, AMS 4027, OR AMS QQ-A-250/11 TYPE 6061-T6- TYPE TEMPER; ASME SB-209 (STRUCTURAL); ASME SA-193/ASTM A193 GRADE B6 UNS S41000 AND ASME SA-194/ASTM A194 GRADE 6 UNS S41000 (HARDWARE)	ALUMINUM AMS 4025, AMS 4027, OR AMS QQ- A-250/11 TYPE 6061-T6 TEMPER; ASME SB-209 OR SB-211 ALLOY 6061-T6-TYPE TEMPER OR ASTM B-209 OR B-211 ALLOY 6061-T6 TEMPER (STRUCTURAL); ASME SA-193/ASTM A193 GRADE B6 UNS S41000 AND ASME SA- 194/ASTM A194 GRADE 6 UNS S41000 (HARDWARE)	TO CORRECT TYPOGRAPHICAL (REDUNDANT) ERROR; TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 13	---	ADD ITEM 13; QTY 16 HEAVY DUTY THREADED INSERT DETAIL DWG AMS 5640 OR ASTM A582 TYPE 303 OR TYPE 303SE SAFETY CLASSIFICATION "C"	DRAWING CLARIFICATION
	SHEET 1 PARTS LIST ITEM 14	---	ADD ITEM 14; QTY 16 1/2" FLAT WASHER DETAIL DWG 18-8 STAINLESS STEEL, PER ASME B18.21.1, TYPE B, McMASTER CARR PN 92217A545 OR EQUIVALENT SAFETY CLASSIFICATION "NITS"	TO BE USED WITH ITEM 10; TO REDUCE ADJACENT MATERIAL WEAR

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
105E9711 REV. J	SHEET 2 CENTER VIEW	HEX BOLTS; ITEM 10; TRIANGLE NOTES 6 AND 7	HEX BOLT (ITEM 14 OPTIONAL) ; ITEM 10 AND 14 ; TRIANGLE NOTE 6	IDENTIFICATION OF ITEMS FOR ALTERNATIVE METHODS FOR SHIPPING CAGE CLOSURE; DELETION OF NOTE 7
	SHEET 2 DETAIL A	---	ADD ITEM 13 (KEENSERT)	DRAWING CLARIFICATION
105E9712 REV. K	SHEET 1 NOTE 6	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED.	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED, IN-SERVICE, SURFACE FINISH WILL BE MAINTAINED USING HAND-FINISHING OR MECHANICAL TECHNIQUES; ELECTROPOLISHING IS OPTIONAL.	PROVIDES ALTERNATE METHOD(S) OF MAINTAINING SURFACE CONDITION REQUIREMENTS
	SHEET 1 NOTE 14	APPLY THREAD SEALANT LOCTITE NO. 5770 TO THREAD PRIOR TO INSTALLATION	APPLY THREAD SEALANT LOCTITE NO. 5770 OR LOCTITE THREAD SEAL TAPE NO. 39904 TO THREADS PRIOR TO INSTALLATION	ALTERNATE METHOD OF PROVIDING LUBRICATION TO PIPE THREADS
	SHEET 1 PARTS LIST ITEM 3	QTY ---	QTY 1	TYPOGRAPHICAL ERROR
	SHEET 1 PARTS LIST ITEM 5	QTY ---	QTY 2	TYPOGRAPHICAL ERROR
105E9712 REV. K	SHEET 1 PARTS LIST ITEM 30	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL PROPERTIES PER AMS 4500 OR 4602	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 31	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL PROPERTIES PER AMS 4500 OR 4602	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
105E9712 REV. K	SHEET 2 SECTION M-M	1.94	1.92	PROVIDES ASSURANCE THAT THE CASK LID WILL RECEDE INTO THE CASK BODY

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
105E9712 REV. K	SHEET 2 DETAIL K	(AT ITEM 27) TORQUE: 55 FT.-LB. (75 n-M) (LUB)	(AT ITEM 27) TORQUE: 55 FT.-LB. (75 n-M) (LUB) AS REQUIRED	LUBRICATION IS PROVIDED BY THE MICROSEAL 100-1 (REFER TO NOTE 13) APPLIED TO THE PART TO PREVENT GALLING
105E9712 REV. K	SHEET 3 SECTION AA-AA	1.94	1.92	PROVIDES ASSURANCE THAT THE CASK LID WILL RECEDE INTO THE CASK BODY
	SHEET 3 DETAIL Z	---	TEST PORT	TYPOGRAPHICAL ERROR
	SHEET 3 DETAIL Y	(AT ITEM 27) TORQUE: 55 FT.-LB. (75 n-M) (LUB)	(AT ITEM 27) TORQUE: 55 FT.-LB. (75 n-M) (LUB) AS REQUIRED	LUBRICATION IS PROVIDED BY THE MICROSEAL 100-1 (REFER TO NOTE 13) APPLIED TO THE PART TO PREVENT GALLING
105E9719 REV. K	SHEET 1 NOTE 6	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED.	AFTER FABRICATION ALL EXPOSED SURFACES, INCLUDING THE CASK CAVITY, CASK LID, TRUNNION, TRUNNION COVER AND BUSHING, AND THE FACE OF THE PLUG COVERS SHALL BE ELECTRO-POLISHED IN-SERVICE, SURFACE FINISH IS TO BE MAINTAINED USING HAND-FINISHING OR MECHANICAL TECHNIQUES; ELECTROPOLISHING IS OPTIONAL.	PROVIDES ALTERNATE METHOD(S) OF MAINTAINING SURFACE CONDITION REQUIREMENTS
	SHEET 1 NOTE 13	APPLY THREAD SEALANT LOCTITE NO. 5770 TO THREAD PRIOR TO INSTALLATION	APPLY THREAD SEALANT LOCTITE NO. 5770 OR LOCTITE THREAD SEAL TAPE NO. 39904 TO THREADS PRIOR TO INSTALLATION	ALTERNATE METHOD OF PROVIDING LUBRICATION TO PIPE THREADS
	SHEET 1 PARTS LIST ITEM 30	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL PROPERTIES PER AMS 4500 OR 4602	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 1 PARTS LIST ITEM 31	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152	C10100, C10200 OR C11000 COPPER – FOIL, SHEET, STRIP, PLATE OR ROLLED BAR, ASME SB-152; CHEMICAL COMPOSITION PER ASTM B152 OR ASTM F68 AND MECHANICAL PROPERTIES PER AMS 4500 OR 4602	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
105E9719 REV. K	SHEET 2 DETAIL K	(AT ITEM 27) TORQUE: 55 FT.-LB. (75 n-M) (LUB)	(AT ITEM 27) TORQUE: 55 FT.-LB. (75 n-M) (LUB) AS REQUIRED	LUBRICATION IS PROVIDED BY THE MICROSEAL 100-1 (REFER TO NOTE 13) APPLIED TO THE PART TO PREVENT GALLING

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DRAWING NO.	ITEM	CHANGES		JUSTIFICATION
		BEFORE	NOW	
105E9719 REV. K	SHEET 2 DETAIL L	---	TEST PORT	TYPOGRAPHICAL ERROR
	SHEET 2 SECTION M-M	1.94	1.92	PROVIDES ASSURANCE THAT THE CASK LID WILL RECEDE INTO THE CASK BODY
183C8518 REV. B	SHEET 1 NOTE 3	OPTIONAL: APPLY MICROSEAL 100-1 PROCESS TO THREADED AREA. PROCESS IS NON- SAFETY RELATED	OPTIONAL: APPLY MICROSEAL 100-1 PROCESS TO THREADED AREA. PROCESS IS NON-SAFETY RELATED	TYPOGRAPHICAL ERROR
	SHEET 1 PARTS LIST ITEM 1	ASME SA240 / ASTM A240 TYPE 304 OR 316; ASME SA182F / ASTM A182F TYPE 304 OR 316; ASME SA479 / ASTM A479 TYPE 304 OR 316; ASTM B209 TYPE 6061; ASTM B211 TYPE 6061; ASTM B211 TYPE 6061	ASME SA-240 / ASTM A240 TYPE 304 OR 316; ASME SA-182F / ASTM A182F TYPE 304 OR 316; ASME SA-479 / ASTM A479 TYPE 304 OR 316; ASTM B209 TYPE 6061; ASTM B211 TYPE 6061; ASTM B221 TYPE 6061; ASME SB209 TYPE 6061; ASME SB211 TYPE 6061 OR ASME SB221 TYPE 6061	TO IMPROVE AVAILABILITY OF MATERIAL IN CURRENT MARKET
	SHEET 2 PLAN VIEW	OPTIONAL THREADED HOLE 3/8-16 UNC – 2B X .75 MAX DEEP (OR) M12x1.75-6H X .75 MAX DEEP ONE OR BOTH SIDES	2X OPTIONAL THREADED HOLE 3/8-16 UNC – 2B X .75 MAX DEEP (OR) 2X M12x1.75-6H X .75 MAX DEEP ONE OR BOTH SIDES	TO CLARIFY REQUIREMENT
	SHEET 2 SECTION A-A	---	ADDED SECTION A-A	TO CLARIFY DRAWING FEATURES