

TBC

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

1 APPROVAL REQUESTED OF: PRECEDENT NON PRECEDENT

2 TYPE: CONSTRUCTION WELDED REPAIRS
 ALTERATION OTHER
 CONVERSION

3 AAR NO: L046063A

4 DATE: OCTOBER 27, 2004

5 APPLICANT S NO: T04040 & T04040X

6 APPLICANT: TRINITY INDUSTRIES, INC.
P.O. BOX 568887 DALLAS, TEXAS 75356-8887

7 TANK SPECIFICATION: DOT 111A100W1

8 STENCILED SPEC.: DOT 111A100W1

9 REPORTING MARKS & CAR NUMBERS: TILX 191242 thru TILX 191376

10 NUMBER OF CARS: 135

11	Initial commodity	SEE NOTES	12	Density, lb. per gallon	6.6
13	Full water capacity, gal.	30,145	14	Dome capacity or outage, gal.	per DOT 173.24b(a)(1)
15	Material type & grade - heads	ASTM A516 Gr. 70	16	Material type & grade - shell	AAR TC128 Gr. B
17	Material thickness - heads, in.	7/16	18	Material thickness - shell, in.	7/16
19	Lining type	NONE	20	Inside diameter - center, in.	119-3/8
21	Inside diameter - end rings, in.	119-3/8	22	Head radius, main, in. (if not 2:1)	2:1 ELLIPSOIDAL
23	Test pressure, psig	165	24	Insulation type	NONE
25	Insulation thickness, in.	N.A.	26	Thermal conductivity, Btu-in/hr-ft ² -°F	N.A.
27	Type and number of pressure relief devices	ONE VALVE	28	Pressure relief device start-to-discharge, psig	75
29	Pressure relief device flow cap'y., scfm req'd.	10,846*	30	Pressure relief device flow capacity, scfm, actual	21,602
31	Tank surface area, sq. ft.	1755	32	Underframe or stub sill type	STUB SILL---TRN 023
33	Center of gravity, loaded, in.	88.7	34	Est. light weight, lb.	66,300
35	AAR clearance diagram	C	36	Rail load limit, lb.	263,000
37	Truck capacity, tons	100	38	Head shields	NONE

NOTES: * Gu = 23.71 for Ethyl Alcohol per Table A5

Ethyl Alcohol and products authorized in DOT Part 173 for which there are no special commodity requirements and non-regulated commodities compatible with this class of car

Orig. Cert.
Builder _____
Date _____
Former lading _____

The Following Drawings Apply	Drawing Number	The following prior approvals apply:	
		Drawing Number	Application/Certificate No.
39 General Arrangement	D-41579A		L036055A
40 Tank Arrangement	D-43655 SH. 1G		
41 Reinforced Openings	D-43655 SH. 2B & 3A		
42 Bolster & Draft Sill Arrgt	D-440494-02 SH. 1A & 2A		L036029
43 Fittings Arrangement	D-55066		
44 Manway Assembly	D-643668-105B		L036064
45 Protective Housing	C-38275F		L036048B
46 Venting, Loading and Discharge Valves	See Page 2		
47 Pressure Relief Devices	MIDLAND A-2097		PRD022004
48 Heater Systems (Int <input type="checkbox"/> Ext <input type="checkbox"/>)	NONE		
49 Gauging Devices (Visual Scale)	D-43655 SH. 2B		
50 Bottom Outlet Valve	JAMESBURY 4" 5RET3-22HBTT		E989005
51 Bottom Outlet Arrgt	D-55757-02E		
52 Manway cover	D-243613G		L046011
53 Calculations	D-644023 SH. 1 & 2		L026066
54 Tank Qualification Drawing	D-41451B		L046043

REVISIONS:
Nov. 29, 2004-Rev. A : Add new Fittings Arrgt. dwg D-55066 to replace dwg D-55021-01

APPLICATION BY: WILLIAM R. BITTING

I certify that the foregoing conforms to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange, and the DOT Railroad Safety Appliance Standards

SIGNATURE: _____
TITLE: SENIOR DESIGN ENGINEER

APPROVAL - AAR Tank Car Committee

Date Approved **DEC 15 2004**

Signature on behalf of Tank Car Committee

CERTIFICATION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others as required by 49 CFR Part 179.5 before these cars are placed in service

Initials and Car Numbers:

TILX 191242 - 191376

Name: _____ Date: 1-3-05
Title: Director Quality Assurance

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

Page 1 of 2

1 APPROVAL REQUESTED OF: PRECEDENT NON-PRECEDENT

2 TYPE: CONSTRUCTION WELDED REPAIRS
 ALTERATION OTHER
 CONVERSION

3 AAR NO: L056007

4 DATE: FEBRUARY 17, 2005

5 APPLICANT'S NO: T04052, 52A, 52Y

6 APPLICANT: TRINITY INDUSTRIES, INC.
P.O. BOX 568887 DALLAS, TEXAS 75356-8887

7 TANK SPECIFICATION: DOT 111A100W1

8 STENCILED SPEC: DOT 111A100W1

9 REPORTING MARKS & CAR NUMBERS: TILX 191377 thru TILX 191539

10 NUMBER OF CARS: 163

11 Initial commodity	SEE NOTES	12 Density, lb. per gallon	6.59
13 Full water capacity, gal.	30,145	14 Dome capacity or outage, gal.	per DOT 173.24b(a)(1)
15 Material type & grade - heads	ASTM A516 Gr. 70	16 Material type & grade - shell	AAR TC128 Gr. B
17 Material thickness - heads, in.	7/16	18 Material thickness - shell, in.	7/16
19 Lining type	NONE	20 Inside diameter - center, in.	119-3/8
21 Inside diameter - end rings, in.	119-3/8	22 Head radius, main, in. (if not 2:1)	2:1 ELLIPSOIDAL
23 Test pressure, psig	165	24 Insulation type	NONE
25 Insulation thickness, in.	N.A.	26 Thermal conductivity, Btu-in/hr-ft ² -°F	N.A.
27 Type and number of pressure relief devices	ONE VALVE	28 Pressure relief device start-to-discharge, psig	75
29 Pressure relief device flow cap'y., scfm req'd.	10,846 *	30 Pressure relief device flow capacity, scfm, actual	21,602
31 Tank surface area, sq. ft.	1755	32 Underframe or stub sill type	STUB SILL---TRN 023
33 Center of gravity, loaded, in.	88.7	34 Est. light weight, lb.	66,200
35 AAR clearance diagram	C	36 Rail load limit, lb.	263,000
37 Truck capacity, tons	100	38 Head shields	NONE

NOTES: * Gu = 23.71 for Ethyl Alcohol per Table A5 at 75 psig start-to-discharge pressure

Ethyl Alcohol and products authorized in DOT Part 173 for which there are no special commodity requirements and non-regulated commodities compatible with this class of car

Orig. Cert. _____
 Builder _____
 Date _____
 Former lading _____

The Following Drawings Apply	Drawing Number	The following prior approvals apply:	
		Drawing Number	Application/Certificate No.
39 General Arrangement	D-41689A		L046029
40 Tank Arrangement	D-43655 SH. 1H		
41 Reinforced Openings	D-43655 SH. 2C & 3A		
42 Bolster & Draft Sill Arrgt	D-440494-02 SH. 1A & 2A		L036029
43 Fittings Arrangement	D-55021-01E		L046061
44 Manway Assembly	D-643668-105B		L036064
45 Protective Housing	C-38275F		L036048B
46 Venting, Loading and Discharge Valves	See Page 2		
47 Pressure Relief Devices	MIDLAND A-2097		PRD022004
48 Heater Systems (Int <input type="checkbox"/> Ext <input type="checkbox"/>)	NONE		
49 Gauging Devices (Visual Scale)	D-43655 SH. 2C		
50 Bottom Outlet Valve	Jamesbury 4" 5RET3-22HBTT		E989005
51 Bottom Outlet Arrgt	D-55757-02E		L046063A
52 Manway cover	D-243613G		L046011
53 Calculations	D-644023 SH. 1 & 2		L026066
54 Tank Qualification Drawing	D-41451B		L046043

REVISIONS:

APPLICATION BY: WILLIAM R. BITTING

I certify that the foregoing conforms to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange, and the DOT Railroad Safety Appliance Standards

SIGNATURE _____
 TITLE SENIOR DESIGN ENGINEER

APPROVAL - AAR Tank Car Committee

Date Approved MAR 18 2005
 Signature on behalf of Tank Car Committee _____

CERTIFICATION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others as required by 49 CFR Part 179.5 before these cars are placed in service.

Initials and Car Numbers: TILX 191377-191539

Name: _____ Date: 3-28-05
 Title: Director Quality Assurance

Form AAR 4-2 Revised 12/1/00

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

<u>THE FOLLOWING DRAWINGS APPLY</u>	<u>DRAWING NUMBER</u>	<u>PRECEDENT APPLICATION NUMBER</u>
55. 15" FLUED NOZZLE	D-440083A	L046011
56. 15" MULTI-HOUSING NOZZLE ASSEMBLY	D-440146B	L986056
57. 15" MULTI-HOUSING NOZZLE COVER FLANGE	D-440199B	L046063A
58. 6" SAFETY VALVE NOZZLE ASSEMBLY	B-27507K	L996141B
59. SAFETY VALVE ARRANGEMENT	D-45651-03C	L046029

LINE 46---VENTING, LOADING AND DISCHARGE VALVES
 THESE ARE THE VALVES REFERENCED ON FITTINGS ARRANGEMENT D-55021-01

1" SCREWED END BALL VALVE
 WATTS CFBV-AAR ----- AAR E049018 Pending
 JAMESBURY 6FR-2236-MT ----- AAR E989012
 ELLCON 2S6BS-FPMP-1 ----- AAR E019003
 JAMESBURY 33-2236-TL ----- AAR E979019A
 JAMESBURY 23-2236-MT ----- AAR E979041A
 GEMINI 86-4RT6-S8-L ----- AAR E009023A

3" SCREWED END BALL VALVE
 JAMESBURY 6FR-2236-MT ----- AAR E989012
 WATTS CFBV-AAR ----- AAR E049018 Pending
 ELLCON 2S6BS-FPMP-3 ----- AAR E019003

Cars are constructed in accordance with all applicable DOT/TC and AAR requirements.
 Car body structure meets the requirements of S-286-2002.

APPLICATION BY William R. Bitting
 I certify that the foregoing conforms to all applicable DOT and
 AAR requirements, including Specifications, Regulations, Rules
 of Interchange and the DOT Railroad Safety Appliance
 Standards.
SIGNATURE [Redacted]
TITLE Senior Design Engineer

APPROVAL: AAR Tank Car Committee

Date Approved

MAR 18 2005

(Signature) on behalf of Tank Car Committee

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

1 APPROVAL REQUESTED OF: PRECEDENT NON-PRECEDENT

2 TYPE: CONSTRUCTION WELDED REPAIRS ALTERATION OTHER CONVERSION

3 AAR NO: L066050A

4 DATE: NOVEMBER 8, 2006

5 APPLICANT'S NO: T06001

6 APPLICANT: TRINITY INDUSTRIES, INC.
P.O. BOX 568887 DALLAS, TEXAS 75356-8887

7 TANK SPECIFICATION: DOT 111A100W1

8 STENCILED SPEC.: DOT 111A100W1

9 REPORTING MARKS & CAR NUMBERS: TILX 193841 thru TILX 194094

10 NUMBER OF CARS: 254

11 Initial commodity	SEE NOTES	12 Density, lb. per gallon	6.05
13 Full water capacity, gal.	30,145	14 Dome capacity or outage, gal.	per DOT 173.24b(a)(1)
15 Material type & grade - heads	ASTM A516 Gr. 70	16 Material type & grade - shell	AAR TC128 Gr. B
17 Material thickness - heads, in.	7/16	18 Material thickness - shell, in.	7/16
19 Lining type	NONE	20 Inside diameter - center, in.	119-3/8
21 Inside diameter - end rings, in.	119-3/8	22 Head radius, main, in. (if not 2:1)	2:1 ELLIPSOIDAL
23 Test pressure, psig	165	24 Insulation type	NONE
25 Insulation thickness, in.	N.A.	26 Thermal conductivity, Btu-in/hr-ft ² -°F	N.A.
27 Type and number of pressure relief devices	ONE VALVE	28 Pressure relief device start-to-discharge, psig	165
29 Pressure relief device flow cap'y., scfm req'd.	10,846 *	30 Pressure relief device flow capacity, scfm, actual	35,608
31 Tank surface area, sq. ft.	1755	32 Underframe or stub sill type	STUB SILL—TRN 023
33 Center of gravity, loaded, in.	88.7	34 Est. light weight, lb.	66,200
35 AAR clearance diagram	C	36 Rail load limit, lb.	263,000
37 Truck capacity, tons	100	38 Head shields	NONE

NOTES: * Gu = 23.71 for Ethyl Alcohol per Table A5.

Ethyl Alcohol and products authorized in DOT Part 173 for which there are no special commodity requirements and non-regulated

Orig. Cert. _____
 Builder _____
 Date _____

The Following Drawings Apply	Drawing Number	The following prior approvals apply:	
		Drawing Number	Application/Certificate No.
39 General Arrangement	D-41689C		L066046
40 Tank Arrangement	D-43832 SH. 1D		
41 Reinforced Openings	D-43832 SH. 2A & 3A		
42 Bolster & Draft Sill Arrgt	D-440494-01 SH. 1A & 2A		L056062
43 Fittings Arrangement	D-55225		
44 Manway Assembly	D-643668-105E		L056121
45 Protective Housing	C-38275F		L036048B
46 Venting, Loading and Discharge Valves	See Page 2		
47 Pressure Relief Devices	MIDLAND A-2165		PRD 002012
48 Heater Systems (Int <input type="checkbox"/> Ext <input type="checkbox"/>)	NONE		
49 Gauging Devices (Visual Scale)	D-43832 SH. 2A		L066052 PENDING
50 Bottom Outlet Valve	Jamesbury 4" 5RET3-22HBTT		E989005
51 Bottom Outlet Arrgt	D-55757-04D		
52 Manway cover	D-243613M		L066028A
53 Calculations	D-644023 Sheets 1 & 2		L026066
54 Tank Qualification Drawing	D-41451B		L046043

REVISIONS:
Rev. A, Dec. 6, 2006: Revised lines 43, 51, & 59

APPLICATION BY: SANDY L. MCQUEEN

I certify that the foregoing conforms to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards

SIGNATURE _____
 TITLE ENGINEERING MANAGER

APPROVAL - AAR Tank Car Committee

Date Approved JAN. 5, 2007
 Signature on behalf of Tank Car Committee _____

CERTIFICATION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others as required by 49 CFR Part 179.5 before these cars are placed in service.

Initials and Car Numbers:

TILX 193841 - 194094

Name _____ Date 1-11-07
 Title Director Quality Assurance

AAR Number L066050A
 Applicant's No. T06001
 Date November 8, 2006

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

<u>THE FOLLOWING DRAWINGS APPLY</u>	<u>DRAWING NUMBER</u>	<u>PRECEDENT APPLICATION NUMBER</u>
55 15" FLUED NOZZLE	D-440083A	L046011
56 15" MULTI-HOUSING NOZZLE ASSEMBLY	D-440146B	L986056
57 15" MULTI-HOUSING NOZZLE COVER FLANGE	D-840171A	L056122
58 6" SAFETY VALVE NOZZLE ASSEMBLY	B-27507K	L996141B
59 SAFETY VALVE ARRANGEMENT	D-55557-01	

LINE 46—VENTING, LOADING AND DISCHARGE VALVES **D-55225**
 THESE ARE THE VALVES REFERENCED ON FITTINGS ARRANGEMENT ~~D-55140-01A~~

1" SCREWED END BALL VALVE


JAMESBURY 23-2236MT-1 ----- AAR E979041A
 JAMESBURY 6FR-2236-MT ----- AAR E989012
 JAMESBURY 33-2236-TL ----- AAR E979019A
 WATTS CFBV-AAR ----- AAR E049018
 ELLCON 2S6BS-FPMP-1 ----- AAR E019003
 GEMINI 86-4RT6-S8-L ----- AAR E009023A


3" SCREWED END BALL VALVE

JAMESBURY 6FR-2236-MT ----- AAR E989012
 WATTS CFBV-AAR ----- AAR E049018
 ELLCON 2S6BS-FPMP-3 ----- AAR E019003

MIDLAND VACUUM RELIEF VALVE ----- AAR E002010

Cars are constructed in accordance with all applicable DOT/TC and AAR requirements. Car body structure meets the requirements of S-286-2002.

APPLICATION BY Sandy L. McQueen
 I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards.
 SIGNATURE 
 TITLE Engineering Manager

APPROVAL AAR Tank Car Committee Date Approved JAN. 5, 2007 
 (Signature) on behalf of Tank Car Committee
 Form AAR 4-2.1 Revised 12-1-00 Page 2 of 2

JA

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

1 APPROVAL REQUESTED OF: PRECEDENT NON-PRECEDENT
 2 TYPE: CONSTRUCTION WELDED REPAIRS
 ALTERATION OTHER
 CONVERSION

3 AAR NO L066070

4 DATE: NOVEMBER 10, 2006

5 APPLICANT'S NO T06021, 21Y & 21Z

7 TANK SPECIFICATION: DOT 111A100W1

8 STENCILED SPEC: DOT 111A100W1

6 APPLICANT: TRINITY INDUSTRIES, INC.
P.O. BOX 568887 DALLAS, TEXAS 75356-8887

9 REPORTING MARKS & CAR NUMBERS TILX 194570 - 195394, TILX 198705 - 198759, & TILX 198910 - 199459

10 NUMBER OF CARS 1,430

11 Initial commodity	SEE NOTES	12 Density, lb. per gallon	6.59
13 Full water capacity, gal.	30,145	14 Dome capacity or outage, gal.	per DOT 173.24b(a)(1)
15 Material type & grade - heads	ASTM A516 Gr. 70	16 Material type & grade - shell	AAR TC128 Gr. B
17 Material thickness - heads, in.	7/16	18 Material thickness - shell, in.	7/16
19 Lining type	NONE	20 Inside diameter - center, in.	119-3/8
21 Inside diameter - end rings, in.	119-3/8	22 Head radius, main, in. (if not 2:1)	2:1 ELLIPSOIDAL
23 Test pressure, psig	165	24 Insulation type	NONE
25 Insulation thickness, in.	N.A.	26 Thermal conductivity, Btu-in/hr-ft ² -°F	N.A.
27 Type and number of pressure relief devices	ONE VALVE	28 Pressure relief device start-to-discharge, psig	165
29 Pressure relief device flow cap'y., scfm req'd.	11,120 *	30 Pressure relief device flow capacity, scfm, actual	35,608
31 Tank surface area, sq. ft.	1755	32 Underframe or stub sill type	STUB SILL--TRN 023
33 Center of gravity, loaded, in.	88.7	34 Est. light weight, lb.	66,200
35 AAR clearance diagram	C	36 Rail load limit, lb.	263,000
37 Truck capacity, tons	100	38 Head shields	NONE

NOTES: * Gu = 24 31 for Ethyl Alcohol at 165 psig start-to-discharge pressure- per L056040A.

Ethyl Alcohol and products authorized in DOT Part 173 for which there are no special commodity requirements and non-regulated commodities compatible with this class of car

Orig. Cert. _____
 Builder _____
 Date _____
 Former lading _____

The Following Drawings Apply	Drawing Number	The following prior approvals apply:	
		Drawing Number	Application/Certificate No.
39 General Arrangement	D-41759		L056040A
40 Tank Arrangement	D-43832 SH. 1D		L066050 Pending
41 Reinforced Openings	D-43832 SH. 2A & 3A		L066050 Pending
42 Bolster & Draft Sill Arrgt.	D-440494-01 SH. 1A & 2A		L056062
43 Fittings Arrangement	D-55174A		
44 Manway Assembly	D-643668-105F		L066060A
45 Protective Housing	C-38275F		L036048B
46 Venting, Loading and Discharge Valves	See Page 2		
47 Pressure Relief Devices	MIDLAND A-2165		SRD002012
48 Heater Systems (Int. <input type="checkbox"/> Ext. <input type="checkbox"/>)	NONE		
49 Gauging Devices (Visual Scale)	D-43832 SH. 2A		L066050 Pending
50 Bottom Outlet Valve	Jamesbury 4" 5RET3-22HBT		E989005
51 Bottom Outlet Arrgt.	D-55757-04B		L066051
52 Manway cover	D-243613M		L066028A
53 Calculations	D-644023 SH. 1 & 2B		L066112
54 Tank Qualification Drawing	D-41451B		L046043

REVISIONS:

APPLICATION BY: Sandy L. McQueen

I certify that the foregoing conforms to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange, and the DOT Railroad Safety Appliance Standards.

SIGNATURE _____
TITLE Engineering Manager

APPROVAL - AAR Tank Car Committee

Date Approved JAN 12 2007
 Signature on behalf of Tank Car Committee _____

CERTIFICATION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others as required by 49 CFR Part 179.5 before these cars are placed in service.

Initials and Car Numbers:
TILX 194570 - 195394, TILX 198705 - 198759
+ TILX 198910 - 199459

Name _____ Date 1-15-07
 Title Director Quality Assurance

AAR Number L066070
 Applicant's No. T06021
 Date November 10, 2006

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

<u>THE FOLLOWING DRAWINGS APPLY</u>	<u>DRAWING NUMBER</u>	<u>PRECEDENT APPLICATION NUMBER</u>
55. 15" FLUED NOZZLE	D-440083A	L046011
56. 15" MULTI-HOUSING NOZZLE ASSEMBLY	D-440146B	L986056
57. 15" MULTI-HOUSING NOZZLE COVER FLANGE	D-840171A	L056122
58. 6" SAFETY VALVE NOZZLE ASSEMBLY	B-27507K	L996141B
59. SAFETY VALVE ARRANGEMENT	D-55536A	L066027A

LINE 46---VENTING, LOADING AND DISCHARGE VALVES
 THESE ARE THE VALVES REFERENCED ON FITTINGS ARRANGEMENT D-55174

1" SCREWED END BALL VALVE

JAMESBURY 23-2236MT-1 -----	<u>AAR E979041A</u>
JAMESBURY 6FR-2236-MT -----	<u>AAR E989012</u>
JAMESBURY 33-2236-TL -----	<u>AAR E979019A</u>
WATTS CFBV-AAR -----	<u>AAR E049018</u>
ELLCON 2S6BS-FPMP-1 -----	<u>AAR E019003</u>
GEMINI 86-4RT6-S8-L -----	<u>AAR E009023A</u>

Cars are constructed in accordance with all applicable DOT/TC and AAR requirements
 Car body structure meets the requirements of S-286-2002.

APPLICATION BY Sandy L. McQueen

I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards.

SIGNATURE _____

TITLE Engineering Manager

JAN 12 2007

APPROVAL AAR Tank Car Committee Date Approved _____

(Signature) on behalf of Tank Car Committee

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

<u>THE FOLLOWING DRAWINGS APPLY</u>	<u>DRAWING NUMBER</u>	<u>PRECEDENT APPLICATION NUMBER</u>
55. 15" FLUED NOZZLE	D-440083A	L046011
56. 15" MULTI-HOUSING NOZZLE ASSEMBLY	D-440146B	L986056
57. 15" MULTI-HOUSING NOZZLE COVER FLANGE	D-440199B	
58. 6" SAFETY VALVE NOZZLE ASSEMBLY	B-27507K	L996141B
59. SAFETY VALVE ARRANGEMENT	D-45651-03C	L046029

LINE 46---VENTING, LOADING AND DISCHARGE VALVES
 THESE ARE THE VALVES REFERENCED ON FITTINGS ARRANGEMENT D-55066

1" SCREWED END BALL VALVE

WATTS CFBV-AAR ----- AAR E949003
 JAMESBURY 6FR-2236-MT ----- AAR E989012
 ELLCON 2S6BS-FPMP-1 ----- AAR E019003
 JAMESBURY 33-2236-TL ----- AAR E979019A
 JAMESBURY 23-2236-MT ----- AAR E979041A

2" SCREWED END BALL VALVE

JAMESBURY 23-2236MT-1 ----- AAR E979041A
 JAMESBURY 6FR-2236-MT ----- AAR E989012
 JAMESBURY 33-2236-TL ----- AAR E979019A
 ELLCON 2S6BS-FPMP-2 ----- AAR E019003
 WATTS CFBV-AAR ----- AAR E949003

Cars are constructed in accordance with all applicable DOT/TC and AAR requirements.
 Car body structure meets the requirements of S-286-2002.

APPLICATION BY William R. Bitting

I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards.

SIGNATURE [Redacted]

TITLE Senior Design Engineer ✓

DEC 15 2004

APPROVAL AAR Tank Car Committee Date Approved

(Signature) on behalf of Tank Car Committee