

LOT 759 SH-1130AR

#108704



Date of Issue: 2028
Mr. Fabricator: S. S. S. Date: APR 13/2028
Approved by: [Signature] Date: APR 13, 2028

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

PAGE 1

1. Manufactured and certified by Ilseung Corporation #74 Daejeong-ro, Onsan-eub, Ulju-gun, Ulsan 689-872, Republic Korea.
(Name and address of Manufacturer)

2. Manufactured for SHELL CANADA ENERGY 400 4AVE. S.W., BOX 100, STATION M, CALGARY, ALBERTA T2P 0J4
(Name and address of Purchaser)

3. Location of installation CARMON CREEK EXPANSION IN PEACE RIVER COMPLEX, ALBERTA, CANADA
(Name and address)

4. Type Horizontal Heat Exchanger 14-HE-044
(Horizontal, vertical, or spherical) (Tank, separator, etc., vessel, heat exch., etc.) (Manufacturer's name and number)
WS069.2 VP-SG07-E10140-001 Rev.7 2028 2014
(GIM) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Div. 1 2010 ED, 2011 ADD (July 01, 2011) N/A N/A
(Edition and Addenda, if applicable) (Code Case number) (Special license per UG-120.0)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multichamber vessels.

6. Shall: (a) Number of course(s) 3 (b) Overall length 7497mm

No.	Diameter	Length	Material Spec./Grade or Type	Thickness		Long. Joint (Cat. A)			Girth Joint (Cat. A, B & C)			Heat Treatment	
				Nom.	Corr.	Type	Fuf. Spot, None	Eff.	Type	Fuf. Spot, None	Eff.	Temp.	Time
2	LD 690mm	2600mm	SA516-70(1)	14mm	1.5mm	1	Full	1.0	1	Full	1.0	620°C	1.Hr.
1	LD 690mm	2297mm	SA516-70(1)	14mm	1.5mm	1	Full	1.0	1	Full	1.0	620°C	1.Hr.
	(BLANK)												

No.	Type	ID	OD	Flange ID	Min. Hub THK	Material	How Attached	Location	Bolting			Washer (OD, ID, THK)	Washer Material
									Num. & Size	Bolting Material	Temp.		
1	(2)	690mm	878mm	85mm	14mm	(3)	Single, butt weld	End	26.1 1/8 -BUN-3/4GL	SA320-L7M	58, 32, 6mm	ASTM-A459	
	(BLANK)												

7. Heads: (a) SA516-70(1) / H.T-1.Hr@620°C (13) (b) -
(Material spec., number, grade or type) (H.T. time and temp.) (Material spec., number, grade or type) (H.T. time and temp.)

Location (Top, Bottom, Ends)	Thickness	Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Stitch to Pressure		Category A		
		Min.	Corr.					Convex	Concave	Type	Fuf. Spot, None	Eff.
(a) End	12.75mm	1.5mm		2:1				YES	YES			
(b) (BLANK)												

Location	Type	ID	OD	Flange THK	Min. Hub THK	Material	How Attached	Bolting			Washer (OD, ID, THK)	Washer Material
								Num. & Size	Bolting Material	Temp.		
(a) (BLANK)												
(b)												

8. Type of jacket N/A Jacket closure N/A
(ind. weld, bar, etc.)

If bar, give dimensions N/A bolted, describe or sketch.

9. MAWP 2814kPa F.V. at max. temp. 200°C 20 at 2814kPa
(Design) (Design) (Design) (Design)

10. Impact test YES(SHELL-A02) -45°C
(Indicate yes or no and the corresponding impact tested)

11. Hydro. pressure test pressure 4400kPa Prot.

Items 12 and 13 to be completed for tube sections.

12. Tubesheet SA785-III(1) 650mm Bolted
(Size over material spec. no.) (Diameter Subject to stress) (Type)
(Drawing material spec. no.) (Diameter) (Name) (Corr. Allow) (Thickness)

13. Tubes SA179 19.05mm 2.03mm 231 U
(Material spec. no., grade or type) (OD) (Minimum thickness) (Number) (Type (straight or bent))

Need to change file # 107555 to # 108704



ASME U-Stamp: 2028
 Date of Issuance: 01/27/17
 Authorized Inspector: [Signature] Date: 01/28/2017

FORM U-1 (Cont'd)

Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s) 1 (b) Overall length 470mm

No.	Course(s)		Material		Long Joint (Cat. A)				Circum. Joint (Cat. A, B & C)				Post Treatment	
	Diameter	Length	Spec./Grade or Type	Note	Corr.	Type	Full, Spot, None	EF	Type	Full, Spot, None	EF	Temp.	Time	
1	1.0 650mm	470mm	SA516-70(+1)	12mm	1.5mm	1	Full	1.0	1	Full	1.0	626°C	1.1Hr.	
	(BLANK)													

No.	Type	ID	OD	Flange TH	Min. Hub TH	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, TH)	Washer Material
1	(2)	650mm	878mm	120mm	12mm	(3)	Single, butt weld	End	30, 1 1/8"-8UN-250L	SA320-L7	59, 32, 6mm	ASTM F436
1	(2)	650mm	878mm	120mm	12mm	(3)	Single, butt weld	End	(15)	(15)	(15)	(15)
	(BLANK)											

15. Heads: (a) SA765-II(1)/H.1-626°C 1.1Hr (b) -

Location (Top, Bottom, End)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Stitch in Pressure		Category A		
	Min.	Corr.	Crown	Knock					Carver	Concave	Type	Full, Spot, None	EF
(a) End	83mm	1.5mm	-	-	-	-	878mm	-	-	-	-	-	-
(b)													

No.	Location	Type	ID	OD	Flange TH	Min. Hub TH	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, TH)	Washer Material
(a)	(BLANK)											
(b)												

16. MAWP 2571 kPa 1.1 at max. temp. 220°C 200°C Min. design metal temp. 45°C at 25.71 kPa

17. Impact test YES(CHANNEL-A01) at test temperature of -45°C

18. Hydro., pressure, test pressure 3000 kPa Proof test -

Purpos (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Attachment Material	Attachment Details		Location (Top, Open)
				Nozzle	Flange	Non.	Corr.		Nozzle	Flange	
SHELL SIDE INLET	1	DN 150	C 300 wa.	(6)	(6)	20.95mm	3.0mm	INHERENT	(4)	-	-
SHELL SIDE OUTLET	1	DN 150	Cl. 300 wa.	(6)	(6)	20.95mm	3.0mm	INHERENT	(4)	-	-
SHELL SIDE VENT(-7)	1	DN 100	Cl. 300 wa.	(6)	(6)	22.25mm	3.0mm	INHERENT	(4)	-	-
SHELL SIDE DRAIN(-7)	1	DN 100	Cl. 300 lg.	(6)	(6)	8.59mm	3.0mm	INHERENT	(4)	(5)	-
TUBE SIDE INLET	1	DN 100	Cl. 300 lg.	SA333-6	(6)	11.13mm	3.0mm	SA516-70(+1)	(4)	(5)	-
TUBE SIDE OUTLET	1	DN 100	Cl. 300 lg.	SA333-6	(6)	11.13mm	3.0mm	SA516-70(+1)	(4)	(5)	-
TUBE SIDE VENT(+12)	1	DN 100	Cl. 300 wa.	(6)	(6)	16.55mm	3.0mm	INHERENT	(4)	-	-
TUBE SIDE DRAIN(+12)	1	DN 100	Cl. 300 lg.	(6)	(6)	8.74mm	3.0mm	INHERENT	(4)	(5)	-

20. Supports: Skirt N0 Lugs N/A Legs N/A Others SADDLES Attached WELDED TO SHELL

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number):
N/A

22. Remarks: 1. Normalized condition. 2. Mandatory App2 Fig 2-4(b) 3. SA765-II(1) 4. FIG. UW-16.1 (d)
5. Single Butt, RT Non-07 6. SA330-LF2 CL R-1 7. Pressure retaining cover: (6), SA330-L7/SA191-7M 3/4"-10UNCx130L, 8 SETS.
8. SA420-WP16 (+6) 9. Nameplate is located on the shell 10. Inspection opening is removable bundle.
11. Safety valve will be installed in system by others. 12. Pressure retaining cover: (6), SA330-L7/SA191-7, (6) 11UNCx100L, 8 SETS.
13. Heads were performed stress relief at the HT-879°C & 0.6 Hr. 14. Length of tube bundle: 7831mm
15. Shell flange and channel flange were connected by same bolting materials; refer to shell side bolting of ITEM No.6



No. of Pages: 308
 No. of Pages: 308 (with 132/101)
 Authorized by: [Signature] Date: Apr. 18, 2015

FORM U-1 (Cont'd)

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CERTIFICATE OF SHOP COMPLIANCE	
We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.	
U Certificate of Authorization Number <u>32,997</u>	Expires <u>DEC. 04, 2016</u>
Date <u>APR 21/2015</u> Name <u>HSUNG CORPORATION.</u>	Signed <u>[Signature]</u>
<small>(Manufacturer)</small>	<small>(Manufacturer)</small>
CERTIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the employed by <u>HSB Global Standards</u> of <u>Hartford CT.</u>	
have inspected the pressure vessel described in this Manufacturer's Data Report on <u>Apr 18, 2015</u> , and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Date <u>Apr. 18, 2015</u> Signed <u>S. JANG</u>	Commissions <u>NB# 14412(A,N)</u>
<small>(Authorized Inspector)</small>	<small>(National Board (U.S. or Foreign))</small>
CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE	
We certify that the statements in this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME BOILER AND PRESSURE VESSEL CODE, Section VII, Division 1. U Certificate of Authorization Number _____ Expires _____	
Date _____ Name _____	Signed _____
<small>(Manufacturer)</small>	<small>(Representative)</small>
CERTIFICATE OF FIELD ASSEMBLY INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by _____ of _____, have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with the ASME BOILER AND PRESSURE VESSEL CODE, Section III, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Date _____ Signed _____	Commissions _____
<small>(Authorized Inspector)</small>	<small>(National Board (U.S. or Foreign))</small>

LOT 759 SH-1132AR



National Board Number: 2028
 Mr. Representative: S. N. 6/4 Date: APR. 19/05
 Authorized Inspector: AS Date: APR. 18, 05

PAGE 1

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Ilseung Coporation #74 Daejeong-Ro, Onsan-Eub, Ulju-Gun, Ulsan 689-892, Republic Korea.
(Name and address of Manufacturer)

2. Manufactured for SHELL CANADA ENERGY 400 4AVE. S.W., BOX 100, STATION M, CALGARY, ALBERTA T2P 0J4
(Name and address of Purchaser)

3. Location of installation CARMON CREEK EXPANSION IN PEACE RIVER COMPLEX, ALBERTA, CANADA
(Name and address)

4. Type Horizontal Heat Exchanger 14-HE-044
(Horizontal, vertical, or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Manufacturer's serial number)

W8069.2 VP-SG07-E10140-001 Rev.7 2028 2014
(CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Div. 1 2010 ED, 2011 ADD (July.01,2011) N/A N/A
(Edition and Addenda, if applicable (date)) (Code Case number) (Special service per UG-120(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multichamber vessels.

6. Shell: (a) Number of course(s) 3 (b) Overall length 7497mm

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
2	I.D. 690mm	2600mm	SA516-70(+1)	14mm	1.5mm	1	Full	1.0	1	Full	1.0	626°C	1.1Hr.
1	I.D. 690mm	2297mm	SA516-70(+1)	14mm	1.5mm	1	Full	1.0	1	Full	1.0	626°C	1.1Hr.
(BLANK)													

Body Flanges on Shells													
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	
1	(+2)	690mm	876mm	85mm	14mm	(+3)	Single, butt weld	End	36, 1 1/8"-8UNx370L	SA320-L7M	58, 32, 6mm	ASTM-F436	
(BLANK)													

7. Heads: (a) SA516-70(+1) / H.T.-1.1Hr&626°C (+13) (b) -
(Material spec. number, grade or type) (H.T.-time and temp.) (Material spec. number, grade or type) (H.T.-time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	End	12.75mm	1.5mm	-	-	2:1	-	-	-	YES	YES	-	-	-
(b)	(BLANK)													

Body Flanges on Heads													
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	
(a)	(BLANK)												
(b)													

8. Type of jacket N/A Jacket closure N/A
(Describe as open and weld, bar, etc.)

If bar, give dimensions N/A If bolted, describe or sketch.

9. MAWP 2814kPa F.V at max. temp. 200°C 200°C Min. design metal temp. -45°C at 2814kPa
(Internal) (External) (Internal) (External)

10. Impact test YES(SHELL-A02) at test temperature of -45°C
(Indicate yes or no and the component(s) impact tested)

11. Hydro. ~~pressure~~ test pressure 4400kPa Proof test -

Items 12 and 13 to be completed for tube sections.

12. Tubesheet SA765-II(+1) 690mm 84mm 3mm Bolted
(Stationary (material spec. no.)) (Diameter (subject to press.)) (Nominal thickness) (Corr. allow.) (Attachment (welded or bolted))

SA179 19.05mm 2.03mm 231 U
(Floating (material spec. no.)) (Diameter) (Nominal thickness) (Corr. allow.) (Attachment) (Material spec. no., grade or type) (O.D.) (Nominal thickness) (Number) (Type (Straight or U))



National Board Number: 2028
 Mr. Representative: P. S. 647 Date: APR. 14/2015
 Authorized Inspector: [Signature] Date: Apr 12, 2015

FORM U-1 (Cont'd)

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Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell: (a) No. of course(s) 1 (b) Overall length 470mm

No.	Course(s)		Material Spec./Grade or Type	Thickness		Type	Long. Joint (Cat. A)		Circum. Joint (Cat. A, B & C)		Heat Treatment		
	Diameter	Length		Nom.	Corr.		Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	I.D. 690mm	470mm	SA516-70(+1)	12mm	1.5mm	1	Full	1.0	1	Full	1.0	626°C	1.1Hr.
	(BLANK)												

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
1	(+2)	690mm	878mm	120mm	12mm	(+3)	Single, butt weld	End	36, 1 1/8"-BUNx290L	SA320-L7	58, 32, 6mm	ASTM-F436
1	(+2)	690mm	878mm	120mm	12mm	(+3)	Single, butt weld	End	(+15)	(+15)	(+15)	(+15)
	(BLANK)											

15. Heads: (a) SA765-II(+1)/H.T-626°C 1.1Hr (b) -
 (Material spec. number, grade or type) (H.T.-time and temp.) (Material spec. number, grade or type) (H.T.-time and temp.)

Location (Top, Bottom, End)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
	Ma.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a) End	83mm	1.5mm	-	-	-	-	-	878mm	-	-	-	-	-

Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Num & Size	Bolting			
									Bolting Material	Washer (OD, ID, thk)	Washer Material	
(a) (BLANK)												
(b)												

16. MAWP 2571 kPa F.V at max. temp. 200°C 200°C Min. design metal temp. -45°C at 2571 kPa
 (Internal) (External) (Internal) (External)

17. Impact test YES(CHANNEL-A01) at test temperature of -45°C
 (Indicate yes or no and the component(s) impact tested)

18. Hydro. ~~pressure~~ test pressure 4000 kPa Proof test -

19. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
SHELL SIDE INLET	1	DN 150	Cl. 300 lwn.	(+6)	(+6)	26.95mm	3.0mm	INHERENT	(+4)	-	-
SHELL SIDE OUTLET	1	DN 150	Cl. 300 lwn.	(+6)	(+6)	26.95mm	3.0mm	INHERENT	(+4)	-	-
SHELL SIDE VENT(+7)	1	DN 100	Cl. 300 lwn.	(+6)	(+6)	22.25mm	3.0mm	INHERENT	(+4)	-	-
SHELL SIDE DRAIN(+7)	1	DN 100	Cl. 300 flg.	(+6)	(+6)	8.58mm	3.0mm	INHERENT	(+4)	(+5)	-
TUBE SIDE INLET	1	DN 100	Cl. 300 flg.	SA333-6	(+6)	11.13mm	3.0mm	SA516-70(+1)	(+4)	(+5)	-
TUBE SIDE OUTLET	1	DN 100	Cl. 300 flg.	SA333-6	(+6)	11.13mm	3.0mm	SA516-70(+1)	(+4)	(+5)	-
TUBE SIDE VENT(+12)	1	DN 100	Cl. 300 lwn.	(+6)	(+6)	16.85mm	3.0mm	INHERENT	(+4)	-	-
TUBE SIDE DRAIN(+12)	1	DN 100	Cl. 300 flg.	(+6)	(+6)	8.74mm	3.0mm	INHERENT	(+4)	(+5)	-

20. Supports: Skirt NO Lugs N/A Legs N/A Others SADDLES Attached WELDED TO SHELL
 (Yes or no) (Number) (Number) (Description) (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number):
N/A

22. Remarks +1. Normalized condition. +2. Mandatory App.2 Fig.2-4(6) +3. SA765-II(+1) +4. FIG. UW-16.1 (d)
+5. Single Butt, RT-None,0.7 +6. SA350-LF2 CL.1(+1) +7. Pressure retaining cover : (+6), SA320-L7/SA194-7M, 3/4"-10UNCx130L, 8 SETS.
+8. SA420-WPL6 + (+6) 9. Nameplate is located on the shell. 10. Inspection opening is removable bundle.
11. Safety valve will be installed in system by others. +12. Pressure retaining cover : (+6), SA320-L7/SA194-7, 5/8"-11UNCx100L, 8 SETS.
+13. Heads were performed stress relief at the H.T-879°C. & 0.5 Hr. 14. Length of tube bundle : 7531mm
+15. Shell flange and channel flange were connected by same bolting materials, refer to shell side bolting of ITEM No.6.



National Board Number: 2028
 Mr. Representative: C. N. 17 Date: APR 19, 2015
 Authorized Inspector: [Signature] Date: APR 18, 2015

FORM U-1 (Cont'd)

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CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

U Certificate of Authorization Number 32,997 Expires DEC. 04, 2016
 Date APR 17, 2015 Name IL SUNG CORPORATION. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the employed by HSB Global Standards of Hartford CT.

have inspected the pressure vessel described in this Manufacturer's Data Report on Apr 18, 2015, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Apr 18, 2015 Signed S. JANG Commissions NB# 14412(A,N)
(Authorized Inspector) (National Board (incl. endorsements))

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements in this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization Number _____ Expires _____.

Date _____ Name _____ Signed _____
(Assembler) (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by _____

of _____, have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ Commissions _____
(Authorized Inspector) (National Board (incl. endorsements))