

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

① 509830

1. Manufactured and certified by DACRO INDUSTRIES INC. 9325-51 AVENUE EDMONTON, ALBERTA T6E 4W8
(Name and address of manufacturer)

2. Manufactured for KEYSPAN ENERGY CANADA c/o KVAERNER PROCESS SYSTEMS 100, 1209-59 AVENUE S.E. CALGARY, AB T2H 2P6
(Name and address of purchaser)

3. Location of installation EASYFORD BATTERY MODIFICATION LSD-11-14-50-8W5
(Name and address)

4. Type HORIZONTAL
GROUP SEPARATOR 04538 R-6102.2 04-538-V-1/2 REV 1 --- 2004
(Horiz. or vert., tank.) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2001
Year

to 2002 --- ---
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-516-70N (63.5) 2.5" (3.17) .125 (2921) 9'-7" SM/SM (15240) 50'-0"
Mat'l (Spec No., Grade) Nom. Thk (in) Corr Allow (in) Diam ID (ft & in) Length overall (ft & in)

7. Seams: TYPE 1 *FULL 100% (621°C) 150 135 MIN TYPE 1 *FULL 5
Long. (Welded, Dbl. Suel. Lap. Butt) RT (Spot or Full) Eff (%) HT Temp (°F) Time (hr) Girth (Welded, Dbl. Suel. Lap. Butt) RT (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70N (b) Mat'l. SA-516-70N
(Spec No., Grade) (Spec No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) REF	2.253 (57.214)	.125 (3.17)	--	--	2:1 SE	--	--	--	CONCAVE
(b) FAR	2.253 (57.214)	.125 (3.17)	--	--	2:1 SE	--	--	--	CONCAVE

If removable, bolts used (describe other fastenings) ---
(Mat'l. Spec No., Gr. Size No.)

9. MAWP (5034/PV KPAG) 730/PV psi at max. temp. (38°C) 100 °F
 Min. design metal temp. (-29°C) -20 °F at (5033 KPAG) 730 Psi. Hydro., pneu., or comb. test pressure (6544 KPAG) 949 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam Or Size	Type	Mat'l.	Nom. Thk	Reinforcement Mat'l.	How Attached	Location
SEE ATTACHED U-4 FORM(S)								

11. Supports: Skirt NO Lugs --- Legs --- Other (2) SADDLES Attached SHELL / WELDED
(Yes or No) (No) (No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: ---
(Name of part, item number, Mfr's name and identifying stamp)

TAG #V-100 VOLUME: 3863 FT³ (109.4 M³) *RT FULL PER UW-11(a)

SAFETY RELIEF DEVICES PER UG-125 ARE THE RESPONSIBILITY OF THE USER.

I.T. PER UG-84.1

CERTIFICATE OF SHOP / FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of the vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 14379 expires February 16, 20 07
 Date March 2, 2004 Co. name DACRO INDUSTRIES INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by DACRO INDUSTRIES INC. at EDMONTON
 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of ALBERTA and employed by ALBERTA BOILERS SAFETY ASSOCIATION
 have inspected the component described in this Manufacturer's Data Report on March 4, 2004, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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 04-03-04 Signed [Signature] Commissions A354(R)
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

71509830

1. Manufactured and certified by DACRO INDUSTRIES INC. 9325-51 AVENUE EDMONTON, ALBERTA T6E 4W8
(Name and address of Manufacturer)

2. Manufactured for KEYSPAN ENERGY CANADA c/o KVAERNER PROCESS SYSTEMS 100, 1209-59 AVENUE SE CALGARY, AB T2H 2P6
(Name and address of Purchaser)

3. Location of installation EASYFORD BATTERY MODIFICATION LSD-11-14-50-8W5
(Name and address)

4. Type HORIZONTAL GROUP SEPARATOR 04538
(HORIZ. or vert., sphere) (Tank, separator, heat exch., etc.) (Mfg.'s serial No.)

R-6102.2 04-538-V-1/2 REV 1 --- 2004
(CRN) (Drawing No) (Nat'l. Bd. No) YEAR BUILT

Remarks

Data Report Item Number	No.	Size	Type	Mat'l.	Nom. Thk.	Rein't Mat'l	How Attach.	Location
(M1) MANWAY	1	24"	300# RFWN	SA-105N	---	SA-516-70N	UW-16.1(e)	HEAD
			300# BLIND FLANGE	SA-105N				
			PLATE - NECK	SA-516-70N	1.250			
			STUDS	SA-193-B7M				
			NUTS	SA-194-2HM				
(N1) INLET	1	16"	300# RFWN	SA-105N	---	SA-516-70N	UW-16.1(e)	SHELL
			PIPE - NECK	SA-106-B	.718			
(N2) GAS OUTLET	1	8"	300# RFWN	SA-105N	---	SA-516-70N	UW-16.1(e)	SHELL
			PIPE - NECK	SA-106-B	.594			
(N3) OIL OUTLET	1	6"	300# RFWN	SA-105N	---	SA-516-70N	UW-16.1(e)	SHELL
			PIPE - NECK	SA-106-B	.719			
(N4) PRODUCED WATER	1	6"	300# RFWN	SA-105N	---	SA-516-70N	UW-16.1(e)	SHELL
			PIPE - NECK	SA-106-B	.719			
(N5A/B) DRAIN	2	3"	300# RFHB	SA-105N	---	NONE	UW-16.1(e)	SHELL
			300# BLIND FLANGE	SA-105N				
			STUDS	SA-193-B7M				
			NUTS	SA-194-2HM				
(N6) PSV	1	3"	300# RFHB	SA-105N	---	NONE	UW-16.1(e)	SHELL
(N7) PI	1	3"	300# RFHB	SA-105N	---	NONE	UW-16.1(e)	HEAD
(N8) TI	1	3"	300# RFHB	SA-105N	---	NONE	UW-16.1(e)	HEAD
(N9A) BRIDLE	1	3"	300# RFHB	SA-105N	---	NONE	UW-16.1(e)	SHELL
(N9B) BRIDLE	1	3"	300# RFWN	SA-105N	---	NONE	UW-16.1(e)	SHELL
			PIPE - NECK	SA-106-B	.438			

Certificate of Authorization: Type "U" No. 14379 Expires February 16, 20 07

Date March 2, 2004 Name DACRO INDUSTRIES INC. Signed [Signature]
(Manufacturer) (Representative)

Date 04-03-04 Name [Signature] Commission A654(R)
(Authorized Inspector) (Nat'l Board incl. Endorsement, State, Province and No.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

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(Name and address of Purchaser)

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(Horiz or vert, sphere) (Tank, separator, heat exch., etc.) (Mfg's serial No.)

R-6102.2 04-538-V-1/2 REV 1 --- 2004
(CRN) (Drawing No.) (Nat'l Bd No.) YEAR BUILT

Remarks

Data Report Item Number	No.	Size	Type	Mat'l.	Nom. Thk.	Rein'nt Mat'l.	How Attach.	Location
(N10A) BRIDLE	1	3"	300# RF11B	SA-105N	---	NONE	UW-16.1(e)	HEAD
(N10B) BRIDLE	1	3"	300# RF11B	SA-105N	---	NONE	UW-16.1(e)	HEAD
(N11A) LSHH	1	2"	300# RFWN PIPE - NECK	SA-105N SA-106-B	---	NONE	UW-16.1(e)	HEAD
(N11B) LSHH	1	2"	300# RFLWN	SA-105N	---	NONE	UW-16.1(e)	HEAD
(N12) SPARE	1	3"	300# RF11B 300# BLIND FLANGE STUDS NUTS	SA-105N SA-105N SA-193-B7M SA-194-21IM	---	NONE	UW-16.1(e)	HEAD

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Date March 2, 2004 Name DACRO INDUSTRIES INC. Signed [Signature]
(Manufacturer) (Representative)

Date 04-03-04 Name [Signature] Commission AG54 (CB)
(Authorized Inspector) (Nat'l Board In-1 Endorsement, State, Province and No.)