

FORM U-1A MANUFACTURERS 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

④ 482583

1. Manufactured and certified by Orban Industries Ltd. 5550-55th Street S.E. Calgary, Alberta T2C 3G9
(Name and Address of Manufacturer)

2. Manufactured for ENERMARK INC C/O TUXTLA ENG 1020. 2424-4TH ST SW CALGARY AB TS2-2T4
(Name and address of purchaser)

3. Location of installation ENERMARK INC LSD 11-07-50-21 W4M
(Name and address)

4. Type HORIZONTAL 02-006HS P 8484.2 02-006-A REV 2 N/A 2002
(Horiz or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l BC 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

to N/A N/A N/A

6. Shell: SA-516-70N .500" .0625" 4'-11" 20'-0"
(Addenda (Date)) (Code case files) (Special Service per UG-120(d))

7. Seams: TYPE 1 FULL 100% N/A N/A TYPE 1 SPOT 3
(Mat'l (Spec No., Grade)) (Nom Thk (in)) (Corr Allow (in)) (Diam ID (ft & in)) (Length (overall) (ft & in))
(Long (Welded, Dbl Singl. Lap, Butt)) (R T (Spot or Full)) (Eff (%)) (HT Temp (- F)) (Time (hr)) (Girth (Welded, Dbl Singl. Lap, Butt)) (R T (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)	END	.500"	0.0625"			2:1				CONCAVE
(b)	END	.500"	0.0625"			2:1				CONCAVE

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

9. MAWP 285 psi at max. temp. 100 °F
Min. design metal temp. -20 °F at 285 psi. Hydro., pneu., or comb. test pressure 371 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	FORM	U-4		

11. Supports: Skirt NO Lugs 2 Legs 2 Other N/A 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)

VOL 416.77 CU FT (11.80 CU M) HORIZONTAL SEPARATOR V 305 RADIOGRAPHY AS PER UW-11(A) SWEET SERVICE

IMPACT TEST EXEMPT AS PER UG-20(f) 1T05 & UCS-66(b) MANUFACTURE DRAWING #02-006-A REV 2

PSV PROVIDED AS PER UG-125

CERTIFICATE OF SHOP COMPLIANCE	
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. <u>32,685</u> expires <u>Jul 11, 2004</u>	
Date <u>April 8/02</u> Co. name <u>Orban Industries Ltd.</u> Signed <u>[Signature]</u>	(Manufacturer) (Representative)
CERTIFICATE OF SHOP INSPECTION	
Vessel constructed by <u>Orban Industries Ltd.</u> at <u>5550-55th Street S.E. Calgary Alberta T2C 3G9</u>	
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 <u>Alberta</u> and employed by <u>Alberta Boiler Safety Association</u>	
have inspected the component described in this Manufacturer's Data Report on <u>April 8, 2002</u> , 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 his 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 <u>April 8/2002</u> Signed <u>[Signature]</u> Commissions <u>Alberta 40 (R)</u>	(Authorized Inspector) (National Board (incl endorsements), State, Prov. and No.)

482583

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

1. Manufactured and certified by Urban Industries Ltd. 5550-55 Street S.E. Calgary, Alberta T2C 3G9
2. Manufactured for ENERMARK INC C/O TUXTLA ENG 1020 2424-4TH ST SW CALGARY AB T2S2-2T4
(Name and address of Manufacturer)
3. Location of installation ENERMARK INC LSD 11-07-50-21W4M
(Name and address of Purchaser)
4. Type: HORIZONTAL SEPARATOR 02-006HS
(Horiz., vert., or sphere) (Tank, separator, heat exch., etc.) (Mfg's. serial No.)
P84B4.2 02-006-A REV2 2002
(CRN) (Drawing No.) (Year Built)

Remarks

Data Report
 Item Number 10
 Continued from Form U-1a

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l	Nom Thk.	Reinforcement Mat'l	How Attached	Location
INLET	1	10"150#	RFWN	SA-105N/SA-106B	.500"	SA-516-7ON	UW-16.1(c)	SHELL
OUTLET	1	10"150#	RFWN	SA-105N/SA-106B	.500"	SA-516-7ON	UW-16.1(c)	SHELL
LIQUID OUT	1	4"150#	RFWN	SA-105N/SA-106B	.674"	INHERANT	UW-16.1(c)	SHELL
PSV	1	2"150#	RFWN	SA-105N/SA-106B	.344"	INHERANT	UW-16.1(c)	SHELL
WEIR DRAIN	1	3"150#	RFWN	SA-105N/SA-106B	.600"	INHERANT	UW-16.1(c)	SHELL
DRAIN	1	2"150#	RFWN	SA-105N/SA-106B	.344"	INHERANT	UW-16.1(c)	SHELL
RECIRCULATION	1	3"150#	RFWN	SA-106B/SA-105N SA-234-WPB	.600"	INHERANT	UW-16.1(c)	SHELL
FUTURE COND LC	1	3"150#	RFLWN	SA-105N	0.62"	INHERANT	UW-16.1(c)	HEAD 2
TI 3050	1	¾ 6000#	T.O.L	SA-105N		INHERANT	UW-16.1(a)	SHELL
LC 3051	2	1 ½ 6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
LG 3050	2	¾ 6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
LC 3050	2	1 ½ 6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
LSL 3050	1	1"6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
LSL 3050	1	1"6000#	T.O.L	SA-105N		INHERANT	UW-16.1(a)	SHELL
LSH 3050	2	1"6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
PC 3050	1	¾ 6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
PSH 3050	1	¾ 6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
PI 3050	1	¾ 6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
FUTURE COND LG	2	¾ 6000#	CPLG	SA-105N		INHERANT	UW-16.1(c)	SHELL
MANWAY CW DAVIT	1	20"150#	RFWN	SA-106B/SA-105N	.500"	SA-516-7ON	UW-16.1(c)	HEAD 1

Certificate of Authorization: Type "U" No. 32658 Expires JULY 11 2004
 02

Date April 13/02 Name Urban Industries Ltd Signed Bul (Representative)
 Date April 8/2002 Name Alfred Loh Commission Alberta (Authorized Inspector)
 (Name and address of Manufacturer) (Name and address of Endorsement, State, Province and No.)