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FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSEL As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 Form U-1 1. Manufactured and certified by ASTRO METALLURGICAL, INC. 3225 West Old Lincoln Way Wooster, Ohio, USA 44691 (Name and address of Manufacturer) 2. Manufactured for FLUOR DANIELS, INC. AS AGENT FOR HOFFMANN-LA ROCHE, INC., P.O. BOX 950, MARLTON, NJ, 08053 (Name and address of Purchaser) 3. Location of Installation FLUOR DANIELS, INC., 206 ROCHEDRIVE, CONS. ENT., BELVIDERE, NJ., 07823 (Name and address) 4. Type: VERT. TANK 60606 (Horiz, vert, or sphere) (Tank, separator, jkt. vessel, heat exh., etc.) (Mfg/s serial No.) (CRN) C-1232-D, R4 17.56 (Drawing No.) (Natl. Bd. No.) (Year Built) 5. ASME Code, Section VIII, Div. 1 1995 EDITION, 1995 ADDENDA Edition and Addenda (date) Code Case No. 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 multi-chamber vessels. 6. Shell:(a) No. of course(s): RANDON (b) Overall length (ft & in.): Course(s) Material Thickness Long Joint (Cat. A) Circum, Joint (Cat. A, B & C) No. Diameter, in. Length (ft & in.) Spec./Grade or Type Heat Treatment Nom. Corr. Type Full, Spot, None Eff. Type Full, Spot, None Eff. ALL 31/2" OD | Temp. (RANDOM) SB-265-2 .125Ω SML NOVE 100% RUL ALL 31/2" OD 100% (RANDOM) SB-337-2 .120 0 SML NOVE 100% 1 FULL 100% 7. Heads: (a) (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (b) (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. Location (Top. Thickness Radius Elliptical Conical Hemispherical Flat Side to Pressure Bottom, Ends) Min. | Corr. | Crown | Knuckle | Ratio | Category A Apex Angle Radius Diameter Convex Concave | Type | Full, Spot, None | Eff. (a) (b) If removable, bolts used (describe other fastening) (Mat'l Spec. No., Grade, size, No.) 8. Type of Jacket Jacket Closure (Describe as ogee & weld, bar, etc.) If bar, give dimensions If botted, describe or sketch. 9. MAWP 150 15 psi at max. temp. 450 °F Min. design metal temp. -20 °F at 150 psi. (internal) (external) (internal) (external) 10. Impact test EXEMPT FROM IMPACT TESTING PER UNF-65 (Indicate yes or no and the component(s) impact tested) 11. Hydro., press., er comb. test press. Proof test Items 12 and 13 to be completed for tube sections. 12. Tubesheet: Stationary (Mat'l Spec. No.) Dia., in. (subject to press.) Nom. thk., in. Corr. Allow., in. Attachment (welded or bolted) Floating (Mat'l Spec. No.) Nom. thk., in. Corr. Allow., in. Attachment 13. Tubes: Mat'l Spec. No., Grade or type O.D., in. Nom. thk., in. or gauge Number Type (Straight or U) 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): (b) Overall length (ft & in.): 6-8 Course(s) Material Thickness Long Joint (Cat. A) Circum, Joint (Cat. A, B & C) No. Diameter, in. Length (ft & in.) Spec./Grade or Type Nom. Corr. Type Full, Spot, None Eff. Type Full, Spot, None Eff. Heat Treatment Temp. Time 783/4" OD SB-265-2 3/8" 0 RUL 100% 1 FULL 100% 15. Heads: (a) SB-265-2, NOH,T. SB-265-2, NOHT. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp Location (Top. | Thickness Radius Elliptical Conical Hemispherical Side to Pressure Flat Category A Bottom, Ends) Min. Corr. Crown Knuckle Ratio Apex Angle Radius Diameter Convex | Concave Type | Full, Spot, None Eff. (a) TOP 3/8" 0 21 Х 1 FULL 100% (b) BOTTOM 3/8" 0 2:1 VITAMIN C EXPANSION PROJECT RUL. 100% If removable, bolts used (describe other fastening)

INFORMATION ONLY

Contract/Purchase Order,

liability. Acceptance is accomplished under terms of the

FLUOR DANIEL

Receipt acknowledged. Notification of receipt of data does not constitute acceptance nor relieve Contractor/Seller of any

FLUUR BANEL Grade, Size, No.)

23618510-4-0203-46-0

TAG/ITEM NO.: 214-T0553

2 Jul 97

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FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Form U-4

2. Manufactured for					(Name and a	ddress	of Manufa		· · · · · · · · · · · · · · · · · · ·	
z. Manufactured for	FLU	FLUOR DANIELS, INC. AS AGENT FOR HOFFMANN LA ROCHE, INC., P.O. BOX 950, MARLTON, NJ, 08053 (Name and address of Purchaser)								
3. Location of instal	llation									
o. Location of motor	ilation			PLOCKLAN	(Nome	WHEL	HVE, CO	VS. BVT. , BBLVIDERE	NU , 07823	
4. Type	VER	<u> </u>		(Name and address)						
		or sphe	re)	(Tank, separat	TANK or boo	t avab at	60606			
				-,	(Tank, separat	or, nea	t exch., et	C.)	(Mfg's. serial	No.)
Data Banat (CRN)					C-1232-D, R4			1756	1997	
Data Report (CRN) Item Number 19					(Drawi	ng No.) Remai	rks	1756 1997 (Nat'l. Bd. No.) (Year but		rear built)
Purpose (Inlet, Outlet, Drain)			neter	Туре	Material	Nom. Thickness mm in		Reinforcement Material	How Attached	Location
SERVICE	2	_	3'	150-LJ	SB-337-2	_	.120"	INHERBYT	WELDED	
SERMOE	2		2'	150-LJ	SB -337-2	_	.109"	INHERENT	WELDED	 _
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ertificate of Autho ate <u>6-/6-9</u> 7			oe <u>U</u>	ASTRO META	No. <u>10,884</u> ALLURGICAL, INC.		xpires 🔟		28	/
				(Mani	Ifacturer)	-	Sigr		W Tu	home
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