V/c = 179044 FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS ed by the Provisions of the ASME Co. Camden Copper Works, Camden, New Jersey
(Name and address of Manufacturer) E-2100-C2 1. Manufactured by Hercules, Inc., Wilmington, Delaware #1041 (Name and address of Purchaser) Yr. Built 1967 Horiz. (Horiz. or Vert.) Kind Heat Exch. Vessel No. (67-3734-10 (State & State No. (Mfrs. Serial) (State & State No. (State & State No. (Mfrs. Serial) (State & State No. (State No. (S 602 Items 4-9 incl. to be completed for single wall vessels (such as air tanks); jackets of jacketed vessels, or shells of heat exchangers. 4. SHELL: Material SA240 316 T.S. 75,000 Nominal Thickness 1/4 In. Allowanco In. Diam. 2 Pt. 1 In. Lengt 20 F1./3 If riveted de-5. SEAMS: Long Butt H.T. no (Welded, Dbl., Single, Lap, Butt). (Yes or No) X.R. spot Sectioned no (Yes or No) (Yes or No) scribe seams fully on reverse side & 1 @ H.T. no X.R. none Sectioned no No. of Courses 2 HEADS (a) Material T.S. Crown Knuckle (Top, bottom, ends) Thickness Radius 6. HEADS (a) Material (b) Material

Elliptical Conical Hemispherical
Ratio Apex Angle Radius T.S.
Flat Side to Pressure
Diameter (Convex or Concave) (a) See tube sheets If removable, bolts used (Material, Spec. No., T.S., Size, Number) _ Other fastening ___ (Describe or Attach Sketch) 7. STAYBOLTS: _ __ If hollow _____ Attachment _____ Pitch ____ X ___ (Vert.) 8. JACKET CLOSURE: _ (Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch) Hydrostatic
Pricamatic or
Test
Press 150 psi at max. temp. OF. less than -20°) allowable working press 2 9. Constructed for max. Items 10 and 11 to be completed for tube sections. 10. TUBE SHEETS: Stationary. Material SA240 316 (Kind & Spec. No.) Diam. Ja: In. Thickness 1/In. Attachment Welded (Subject to Pressure) (Welded, Bolted) None (Kind & Spec. No.) Diam.____In. Thickness ___In. Attachment Floating. Material Inches 11. TUBES: Material SA249 306.b. 3/4 In. Thickness Type straight (Straight or U) or Gage Number Items 12-15 incl. to be completed for inner-chambers of jacketed vessels, or channels of heat exchangers. 12. SHELL Material SA285C St1 T.S. 55.000 Nominal Thickness 1/8 In. Allowance/16 Diam. 2 Ft. In. Length 13. SEAMS: Long Butt H.T. no X.R. spot Sectioned no Efficiency_
(Welded, Dbl., Single, Lap, Butt) (Yes or No)* X.R. (Spot or Complete) (Yes or No) If riveted describe seams fully on reverse side of Butt X.R. none Sectioned NO H.T. no ___ No. of courses 14. HEADS (a) Material __ (b) Material _ ._ (c) Material Knuc kle Radius Elliptical Ratio Conical Hemispherical Apex Angle Radius Side to Pressure (Convex or Concave Flat Diameter Location (a) Top, bottom, ends with 3/4 x 6" ribs @ 900 welded (b) Channel 30-3/1/flat (ckabuing End_ 39-3/4 If removable, bolts used (a) (b) St1 000.5/8 (Material, Spec. No., T.S., Size, Number) Other fastening _ (Describe or Hydrostatic 15. Constructed for max. Min. temp. (when -Prieumaticoor allowable working press. 275 psi at max. temp. 300 °F. less than -20°) ... F. -Combination- Press 113 Items below to be completed for all vessels where applicable. 16. SAFETY VALVE OUTLETS: Number 18 Systeme Location 17. NOZZLES Purpose (Inlet, Outlet, Drain) Reinforcement Material How Attached Number Diam. or Size Type Material Thickness. S.O. SAS3B, St1 Std. Wt. welded 10x6 SA312,316 6" D

If postweld heat-treated. List under remarks other internal or external pressures with coincident temperature when applicable.

FORM U-1 (back)

 18 INS	PECTION Manholes, No. none Size Location
	ENINGS: Handholes, No
011	Threaded, No
19. SUF	PPORTS: Skirt no Lugs none Legs none Other saddles Attached welder (Where & Ho
20 RE	MARKS:. This vessel is an oxidizer condenser for non-lethal service.
ZU. KEI	
1 1 1 1 1	The shell of this vessel is equipped with an expansion joint of flanged and flued heads designed and fabricated per code case 1177-5.
1	The underside of the vessel shell is equipped with a longitudinal
	heating jacket fabricated from 12° 20.7#VA-36 carbon steel channel
	meaning Jackee last leaded 110m Tr 2011 Nano Catholi 2001 Channal
	(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.)
	(Bilet description of purpose of the vesser, as All Talk, Alter Cooler, Jacketed Cooker, etc.) State contents of outer party
	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 Unfired Pressure Vessels.
Date_	April 17 19 67 Signed Camden Copper Works By Hallest Dunne
Ce	rtificate of Authorization Expires 12/31/67
i	
	CERTIFICATE OF SHOP INSPECTION
doğ.	Camdan Campus Hauka Camdan New Javas 3
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of New Jersey and employed by Hartford Steam Boiler Ins. & Insp. of
	Hartford, Conn. have inspected the pressure vessel described in this manufacturer's
	<u> </u>
	data report on
(Luna)	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.
1	Date 7/67 19 57
	Date
	The Lincoln Commissions NB=2907
	Inspectors Signature Commissions Nat'l Board or State and No.
_ 1	
9 (9)	
	CERTIFICATE OF FIELD ASSEMBLY INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or
	the State of 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
9 8	not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME
· ·	Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test of psi.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, conceming 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 19
885	
	Commissions Nat'l Board or State and No.
	Inspector's Signature Nat'i Board or State and No.