FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS

1221

As required by the Provisions of the ASME Code Rules

1. Manufactured by LOX EQUIPMENT COMPANY, 355 S. Vasco Rd., Livermore, California
(Name and address of Manufacturer)

2. Manufactured for ~~XXXXXXXXXX~~ Victor Equipment Company, San Francisco 7, Calif.
(Name and address of Purchaser)

3. Type Vert. (Horiz. or Vert.) Kind Jacketed (Tank, Jacketed, Heat Exch.) Vessel No. (6146) (Mfrs. Serial) ( ) (State & State No.) Natl. Bd. No. 264 Yr. Built 1962

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 Non-Code (Kind and Spec. No.) T.S. (Fig. or F.B. & Spec. Min. T.S.) Nominal Thickness In. Corrosion Allowance In. Diam. Ft. In. Length Ft. In.

5. SEAMS: Long (Welded, Dbl., Single, Lap, Butt) S.R. (Yes or No) X.R. (Spot or Complete) Sectioned (Yes or No) Efficiency %

Girth S.R. X.R. Sectioned No. of Courses

If riveted describe seams fully on reverse side of form

6. HEADS: (a) Material T.S. (b) Material T.S.

	Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)									
(b)									

If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)

7. STAYBOLTS: (Material) If hollow (Size of Hole) Attachment (Threaded, Welded) Pitch (Horiz.) X (Vert.) Diam. (Nominal)

8. JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

9. Constructed for { Int. / Ext. } pressure of psi. Max. Temp. °F. Subzero °F. Hydrostatic Test psi.

Items 10 and 11 to be completed for tube sections

10. TUBE SHEETS: Stationary. Material (Kind & Spec. No.) Diam. (Subject to Pressure) In. Thickness In. Attachment (Welded, Bolted)

Floating. Material (Kind & Spec. No.) Diam. In. Thickness In. Attachment

11. TUBES: Material (Kind & Spec. No.) O.D. In. Thickness Inches or Gage. Number Type (Straight or U)

Items 12–15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

12. SHELL: Material A240, T304 (Kind and Spec. No.) T.S. 75,000 (Fig. or F.B. & Spec. Min. T.S.) Nominal Thickness 5/16 Corrosion Allowance 0 In. Diam. 3 Ft. 6 In. Length 8 Ft. 0 In.

13. SEAMS: Long DBL Butt (Welded, Dbl., Single, Lap, Butt) S.R. No (Yes or No) X.R. Comp (Spot or Complete) Sectioned No (Yes or No) Efficiency 100 %

Girth Butt S.R. No X.R. Comp Sectioned No No. of courses 1

If riveted describe seams fully on reverse side of form

14. HEADS: (a) Material A240, T304 T.S. 75,000 (b) Material T.S. (c) Material T.S.

	Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top, bottom, ends	5/16			2:1				Concave
(b)	Channel								
(c)	Floating								

If removable, bolts used (a) (b) (Material, Spec. No., T.S., Size, Number)

(c) Other fastening (Describe or Attach Sketch)

15. Constructed for { Int. / Ext. } pressure of 250 psig 265 psi. Max. Temp. 100 °F. Subzero -320 °F. Hydrostatic Test 397.5 psi. Net

Items below to be completed for all vessels where applicable. Impact tested @ -320°F Weld & Heat Effected Zone

16. SAFETY VALVE OUTLETS: Number 1 Size 6" Location Top of Outer Vessel

17. NOZZLES: 1 1" Valve Enclosure

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Inlet	1	1" IPS	SCH 40	A240, T304	.133		Welded
Outlet	1	1" IPS	SCH 40	A240, T304	.133		Welded
Instrument	2	1/4" IPS	SCH 40	A240, T304	.088		Welded

18. INSPECTION OPENINGS: Manholes, No. Size Location

Handholes, No. Size Location

Threaded, No. Size Location

19. SUPPORTS: Skirt (Yes or No) Lugs (Number) Legs (Number) Other (Describe) Attached (Where & How)

20. REMARKS: Liquid Oxygen, Liquid Nitrogen Storage

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.) (Over)

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1. Manufactured by LOX EQUIPMENT COMPANY, 355 S. Vasco Rd., Livermore, California
   (Name and address of Manufacturer)
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   (Name and address of Purchaser)
3. Type Vert. (Horiz. or Vert.) Kind Jacketed (Tank, Jacketed, Heat Exch.) Vessel No. (6146) (Mfrs. Serial) ( ) (State & State No.) Natl. Bd. No. 264 Yr. Built 1962

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 Non-Code (Kind and Spec. No.) T.S. (Fig. or F.B. & Spec. Min. T.S.) Nominal Thickness In. Corrosion Allowance In. Diam. Ft. In. Length Ft. In.
5. SEAMS: Long (Welded, Dbl., Single, Lap, Butt) S.R. (Yes or No) X.R. (Spot or Complete) Sectioned (Yes or No) Efficiency %
   Girth S.R. X.R. Sectioned No. of Courses
   If riveted describe seams fully on reverse side of form
6. HEADS: (a) Material T.S. (b) Material T.S.

	Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)									
(b)									

   If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)
7. STAYBOLTS: (Material) If hollow (Size of Hole) Attachment (Threaded, Welded) Pitch (Horiz.) X (Vert.) Diam. (Nominal)
8. JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)
9. Constructed for { Int. / Ext. } pressure of psi. Max. Temp. °F. Subzero °F. Hydrostatic Test psi.

Items 10 and 11 to be completed for tube sections

10. TUBE SHEETS: Stationary. Material (Kind & Spec. No.) Diam. (Subject to Pressure) In. Thickness In. Attachment (Welded, Bolted)
    Floating. Material (Kind & Spec. No.) Diam. In. Thickness In. Attachment
11. TUBES: Material (Kind & Spec. No.) O.D. In. Thickness Inches or Gage. Number Type (Straight or U)

Items 12–15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

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13. SEAMS: Long DBL Butt (Welded, Dbl., Single, Lap, Butt) S.R. No (Yes or No) X.R. Comp (Spot or Complete) Sectioned No (Yes or No) Efficiency 100 %
    Girth Butt S.R. No X.R. Comp Sectioned No No. of courses 1
    If riveted describe seams fully on reverse side of form
14. HEADS: (a) Material A240,T304 T.S. 75,000 (b) Material T.S. (c) Material T.S.

	Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top, bottom, ends	5/16			2:1				Concave
(b)	Channel								
(c)	Floating								

    If removable, bolts used (a) (Material, Spec. No., T.S., Size, Number) (b)
    (c) Other fastening (Describe or Attach Sketch)
15. Constructed for { Int. / Ext. } pressure of 250 psig psi. Max. Temp. 100 °F. Subzero -320 °F. Hydrostatic Test 397.5 psi. Net

Items below to be completed for all vessels where applicable. Impact tested @ -320°F Weld & Heat Effected Zone

16. SAFETY VALVE OUTLETS: Number 1 Size 6" Location Top of Outer Vessel
17. NOZZLES: 1 1" Valve Enclosure

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Inlet	1	1" IPS	SCH 40	A240,T304	.133		Welded
Outlet	1	1" IPS	SCH 40	A240,T304	.133		Welded
Instrument	2	1/4" IPS	SCH 40	A240,T304	.088		Welded

18. INSPECTION OPENINGS: Manholes, No. Size Location
    Handholes, No. Size Location
    Threaded, No. Size Location
19. SUPPORTS: Skirt (Yes or No) Lugs (Number) Legs (Number) Other (Describe) Attached (Where & How)
20. REMARKS: Liquid Oxygen, Liquid Nitrogen Storage

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.) (Over)

Note: Inner and Outer Vessel Manufactured by Lox Equipment Company, Livermore, California

Hydrostatic Test of Inner Vessel Performed by Lox Equipment Co.

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this unfired pressure vessel conform to the ASME Code for Unfired Pressure Vessels.

Date 4-9 19 62 Signed Lox Equipment Company (Manufacturer) By C E Swanson

Certificate of Authorization Expires December 31, 1964

CERTIFICATE OF SHOP INSPECTION

Inspection Agency's Serial No.

VESSEL MADE BY Lox Equipment Company at Livermore, California

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF California and employed by DIR, DIB of Calif.

inspected internally and externally, the vessel described in this report on _____ 19____, and certify that the statements made in this report are correct corresponding with mill test reports of materials furnished by the builders, and measurements made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired Pressure vessels.

Date 4-9 1962

Ray Fellows
Inspector's Signature

Commissions NB3238
State or Nat'l Bd. & Number

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF _____ and employed by _____ of _____ have compared the statements in this manufacturers' data report with the completed vessel, and certify that parts referred to as data items _____ were completed in the field in accordance with the requirements of the ASME Code for Unfired Pressure Vessels. The completed vessel was inspected and subjected to a hydrostatic test of _____ psi.

Date _____ 19____

_____
Inspector's Signature

Commissions _____
State or Nat'l Bd. & Number

Printed in U.S.A.

Copies of this Form obtainable from the ASME, United Engineering Center, 345 East 47th Street, New York 17, N. Y.