



**FORM P-3 (Back)**

9. (a) Superheater Headers

Heads or Ends

9 (b) Superheater Tubes

No.	Size and Shape	Material Spec No.	Thickness, in.	Shape	Thickness, in.	Material Spec No.	Hydro Test, psi.	Diameter, in.	Thickness, in.	Material Spec No.
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

10. (a) Other Parts (1) Manway Rings (2) F.W. Piping (3) - 10(b) Tubes for Other Parts

1	12"x16" Ellipse	SA516 GR70	1.0	-	-	-	-	-	-	-
2	3.068" I.D. Pipe	SA106 B	.216	Flg.	300#	SA105	375	-	-	-
3	-	-	-	-	-	-	-	-	-	-

11. Openings (1) Steam (1)-8"-300#R.F.W.N.Flq. SA105 (2) Safety Valve (2)-4"-300#R.F.S.O.Flq. SA105  
 (No., size, and type of nozzles or outlets) (No., size, and type of nozzles or outlets)  
 (3) Blowoff (2)-1 1/2"-300#R.F.S.O.Flq. SA105 (4) Feed (1)-3"-300#R.F.S.O.Flq. SA105 Burner End Steam Drum  
 (No., size, and type of nozzles or outlets) (No., size, type and location of connections)

	Maximum Allowable Working Pressure	Code Par. and/or Formula on Which MAWP is Based	Shop Hydro. Test, psi	Heating Surface Sq. Ft.
a Boiler	250	PG 27 & 29	375	6,652
b Waterwall	-	-	-	-
c Economizer	-	-	-	-
d Superheater	-	-	-	-
e Other Parts	250	PG 27 & 44	375	-

Heating surface to be stamped on drum heads. This heating surface not to be used for determining minimum safety valve capacity

13	Field Hydro. Test psi

14: Maximum Designed Steaming Capacity 100,000 lb/hr

15. Remarks: No connections to Item 11 Except as Listed. All threaded Piping Sch. 80 SA106 B

**CERTIFICATE OF SHOP COMPLIANCE**

We certify that the statements made in this data report are correct and that all details of design, material, construction, and workmanship of this boiler conform to Section I of the ASME BOILER AND PRESSURE VESSEL CODE.

Our Certificate of Authorization No. 1,769 to use the (S) S Symbol expires March 30, 19 98  
 Date 10-3-95 Signed Bob K... .. Name National Dynamics Corp.  
 (Authorized Representative) (Manufacturer)

**CERTIFICATE OF SHOP INSPECTION**

BOILER MADE BY National Dynamics Corp. at 6940 Cornhusker Highway, Lincoln, Nebraska

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of Nebraska and employed by H.S.B.I.&I. Co. of Hartford, CT

have inspected parts of this boiler referred to as data items 6(a)1, 6(a)2, 6(b), 10(a), 11, 12(a), 12(e), 14 and have examined Supporting Manufacturer's Data Reports for items 6(a)1, 6(a)2

and state that, to the best of my knowledge and belief, the Manufacturer has constructed this boiler in accordance with Section I of the ASME BOILER AND PRESSURE VESSEL CODE. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the boiler 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 10-3-95 Signed Frank H... .. Commissions NAT'L BD 11474A Nebraska  
 (Authorized Inspector) (Nat'l Bd. (incl. endorsements) State, Prov. and No.)

**CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE**

We certify that the field assembly of all parts of this boiler conforms with the requirements of SECTION I of the ASME BOILER AND PRESSURE VESSEL CODE.

Our Certificate of Authorization No. \_\_\_\_\_ to use the (A) (S) \_\_\_\_\_ Symbol expires \_\_\_\_\_, 19 \_\_\_\_\_  
 Date \_\_\_\_\_ Signed \_\_\_\_\_ Name \_\_\_\_\_  
 (Authorized Representative) (Assembler)

**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ have compared statements

in this Manufacturer's Data Report with the described boiler and state that the parts referred to as data items \_\_\_\_\_, 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 and/or the assembler has constructed and assembled this boiler in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE. The described boiler 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, concerning the boiler 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 \_\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
 (Authorized Inspector) (Nat'l Bd. (incl. endorsements) State, Prov. and No.)

**FORM P-4 MANUFACTURER'S PARTIAL DATA REPORT**

As Required by the Provisions of the ASME Code Rules, Section I

NB 3180 2/2

1 Manufactured by LaBarge Pipe & Steel Company 1300 N. LaBarge Ave. Wagoner, OK 74467 P-4 ID No. \_\_\_\_\_  
(Name and address of manufacturer)

2 Manufactured for National Dynamics Corp. 6940 Cornhusker Hwy. Lincoln, NE 68507  
(Name and address of purchaser)

3 Identification of Part(s)

Name of Part	Quantity	Line No.	Mfr's Identifying Numbers	Manufacturer's Drawing No.	CRN	National Board No.	Year Built
DRUM	1	1	K-739-01-1	K739			1995
DRUM	1	2	K-739-02-1	K739			1995

4 The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The construction and workmanship conform to ASME Rules, Section I of ASME Boiler and Pressure Vessel Code  
 1992 Addenda to 1993, and Code Cases N/A  
(Year) (Date) (Numbers)

6 (a) Drums

No.	Inside Diameter, in.	Inside Length		Mat'l Spec No. Grade	Shell Plates		Tubesheets		Tube Hole Ligament Efficiency, %	
		ft.	in.		Thickness, in.	Inside Radius, in.	Thickness, in.	Inside Radius, in.	Longitudinal	Circumferential
1	48	25	8	SA516 Gr70	.750	24				
2	30	25	8	SA516 Gr70	.625	15				
3										
4										

No.	Longitudinal Joints		Circum. Joints		Mat'l Spec No. Grade	Heads		Radius of Dish	Manholes No. Size	Hydrostatic Test, psi
	No. & Type*	Efficiency	No. & Type	Efficiency		Thickness, in.	Type**			
1	3 (2)	100	2 (2)	100						
2	3 (2)	100	2 (2)	100						
3										
4										

\*Indicate if (1) Seamless, (2) Fusion welded

\*\*Indicate if (1) Flat, (2) Dished; (3) Ellipsoidal, (4) Hemispherical

6 (b) Boiler tubes:

Diameter	Thickness	Mat'l Spec. No., Grade

6 (c) Headers no

(Box or sinuous or round, Mat'l spec. no., Thickness)  
 Heads or Ends Hydro. Test, psi  
 (Shape Mat'l spec no Thickness)

6 (d) Staybolts

(Mat'l spec no., Diameter; Size telltale; Net area)  
 Pitch in Net Area in<sup>2</sup> MAWP psi  
 (Hor. and Vert) (Supported by one bolt)  
 Hydro. Test, psi

6 (e) Mud Drum:

(for sect. header boilers, State size; Shape, Mat'l. spec. no., Thickness)

(Shape, Mat'l spec no., Thickness)

7 (a) Waterwall Headers:

No.	Size and Shape	Material Spec No.	Thickness, in.

Shape Heads or Ends Thickness, in.

Material Spec. No. Hydro Test, psi

7 (b) Waterwall Tubes

Diameter, in. Thickness, in. Material Spec No.

FORM P-4 (Back)

8. (a) Economizer Headers

No.	Size and Shape	Material Spec No	Thickness, in	Heads or Ends			Hydro Test, psi	(b) Economizer Tubes		
				Shape	Thickness, in	Material Spec. No		Grometer, in	Thickness in	Material Spec. No

9 (a) Superheater Headers

No.	Size and Shape	Material Spec No	Thickness, in	Heads or Ends			Hydro Test, psi	(b) Superheater Tubes		
				Shape	Thickness, in	Material Spec. No		Grometer, in	Thickness in	Material Spec. No

10. (a) Other Parts (1)

1	2	3	10(b) Tubes for Other Parts

11 Openings

(1) Steam

(No., size, and type of nozzles or outlets)

(2) Safety Valve

(No., size, and type of nozzles or outlets)

(3) Blowoff

(No., size, and type of nozzles or outlets)

(4) Feed

(No., size, type and location of connections)

12.

	Maximum Allowable Working Pressure	Code Par and/or Formula on Which MAWP is Based	Shop Hydro Test, psi	Heating Surface Sq. Ft.	Heating surface to be stamped on drum heads. This heating surface not to be used for determining minimum safety valve capacity.	13. Field Hydro Test psi
a Boiler						}
b Waterwall						
c Economizer						
d Superheater						
e Other Parts	250 psi	PG27.2.2				

14. Remarks

FOR INFORMATION ONLY:

The weld procedure used on this item has also been qualified in a post weld heat treated condition.

JM 2497

Certified to material & workmanship only.

.714" min. wall Item 01 .446" min. wall Item 02

CERTIFICATE OF SHOP COMPLIANCE

We certify the statements made in this Manufacturer's Partial Data Report to be correct and that all details of material, construction, and workmanship of this boiler part conform to Section I of the ASME BOILER AND PRESSURE VESSEL CODE

Certificate of Authorization No 14,120 to use the (PP) or (S) S Symbol expires July 19 19 98

Date 7-6-95 Signed *Robert J. Betts* Name LaBarge Pipe & Steel Company  
(Authorized Representative) (Manufacturer)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of OK and employed by Delta Lloyds Insurance Company, Houston, Tx. have inspected the part of a boiler described in this Manufacturer's Partial Data Report on 7-6 19 95, and state that to the best of my knowledge and belief, the manufacturer has constructed this part in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial 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 7-6-95 Signed *Mark A. Dwyer* Commissions UK # 697  
(Authorized Inspector) (Nat'l Board (incl endorsements) State, Province, and No)