FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1.	Manufactured and certified by Harliss Specialties Corp., Biddle Road, Irwin, Pa. 15642 (Name and address of manufacturer)										
2.	Manufactured fo	Innufactured for Nash-Kinema Inc., P.O. Box 176 Elizabeth, Pa. 15037 (Name and address of purchaser)									
	Location of inst				e Compar	ny Her	shey, P	ennsylva			
4.	Type Vertical 1186			(Mfgr's serial No.)	(Name and NOI		C-701475 Rev. 1 1186		86	1987	
	5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1986										
	A86			None	one			None			
	Addenda (date) Code Case No Special service per UG 120(d)										
	lems 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or sheets of heat exchangers 6. Shelt: SA515 Gr 70 375" 0625" 3 1 25" 15 0" Matt (Spec No Grade) Nom Thk (in) Corr Allow (in) Diam (D (ft & in)) (Length (Overall))										
7.	Seems: Double welded			Snot				85		None	
	N	. A .	ny IDUI Sngli		•	R 1 (Spot or Full)	A business	EH (%)		H.T Temp. (F)	
	AV d	I one		uble we	th (Dbf , Sngl)	·	Spot	Spot, Partral, or Full)		No of Courses	
8.	Heads: (a) Matl	None	(Spec	No . Grade) (b) Ma			None (Spec No. Grade)				
	Location (Top. Bottom Ends)	Minimum Thickness	Corresion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)	
(0)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
(b)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
If removable, bolts used (describe other fastenings) N • A • (Matl. Spec. No. Gr. Size No.)											
9.	laster Clasura None					Proof Test None If bolted, describe or sketch.					
10.		(Describe	35 ogee & weld, b	ar, etc.)							
11.	1. MAWP 75 psi at max. temp. 150 °F. Min. temp. (when less than -20°F) N.A. Hydro, pneu, or comb. tes press. Hydro at 120 psi							°F.			
.				at 120		ps,				4.	
12.	s 12 and 13 to be Tubesheets:	Stationary Matt. (S	pe 304	41.875	et to pressure)	1.6875	1 (1)	O Corr Allow (in	, <u>We</u>	1 d e d	
	_1	None Floating Matt (Spi		N.A.		N.A.		N.A.		Attach	
13.	Tubes: SA	249 Type	304		.75"		18 BWG	1,18	2S	traight	
Matt (Spec No Gr) OD (in) Nom Thk (in or Gauge) Number Type (Straight or U) Rems 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers End a= 4											
•-	Do	ouble we		Nom Ink (in	Spot	Allow (in.)	Dian	n 10 (tr∈) 85		One	
15.	Seems: N	. A .	ong (Db) Sng() DO	uble we		R T (Spot or Full)	Spot	E## (%)	1	each end.	
	Trate Getth (Dbl. Sngt.)						R.Y. (Spot. Partial, or Full) No. of Courses				
16.	Heeds: (a) Matl. SA240 Type 304 (Spec No . Grade)					(b) Matl. SA	b) Mati. SA240 Type 304 (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)	
(4)	Top	.1724"	0	N.A.	N.A.	2:1	N.A.	N.A.	N.A.	Concave	
100	Bottom	1.1724"	0	N.A.	N.A. Studs,	2:1 5/8-11 S	N.A. SA193B7	N.A.	IN.A.	Concave	
	(Matl., Spec. No., Gr., Size, No.)									·	
17.	MAWP FV & 150 psi et max. temp. 350 "F. Min. temp. (when less than -20° F) N.A. "Name of the less than -20° F) N.A. "See the seed of the less than -20° F) N.A. "See the less than -20° F) N.A										
(12	Hydro:, pneu., /82)	or comb. test p	oress			•	si. n the Order De	pt., ASME, 345	E. 47th St., N	iew York, N.Y. 10017	

(12/92)

Form U-1 (Back) 18. Nozzies, Inspection and Safety Valve Openings: 6" Pipe Inlet C1150flg SA106B .280" Integral Weld Welded Shell C1150f1g .280" Outlet SA106B pipe Integral Weld welded Shell Vent 3/4 N.A. Threaded SA105 3000# Welded She11 3/4" Drain Threaded SA105 3000# N.A. Welded Shell 18" Pipe .25" Inlet 1" SA240 Type 304 C1150f1g | SA312 Type 304 Welded Shell, Top Bonnet 3" Pipe Inlet C1150f1g SA312 Type 304 .216" Integral weld Welded Top Head 3" Pipe Outlet C1150f1g | SA312 Type 304 .216" Integral Weld Shell, Bottom Bonne Welded 4" Pipe C1150f1g | SA312 Type 304 Drain .237" Integral Weld Welded **Bottom Head** 3/4" Vent Threaded | SA182 Type 304 3000# Integral Weld Welded Shell, Bottom Bonnet Sight Glass C1150flg | SA240 Type 316 N.A. Welded Shell, Botton Bonnet Welded to shell. Skirt No Lugs 4 Legs 0 Other None (Ves or no) (No.) (No.) (Describe) Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report None (Name of part, item number, infgr's name and identifying stamp) 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 con form to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 19, 280 expires 3/23 19 90 Date 11/11/87 co. name Harliss Specialties Corp. signed 9 gradule: 3 CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Harliss Specialties Corporation, Biddle Road, Irwin, Pa. 15642 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 Pennsylvania and employed by Lumbermens Mutual Casualty Company pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any ranty, expressed or implied, concerning the pressure vessel described in the Manufacturer's Deta Report. Furthermore, neither the inspector nor his em player shall be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this Inspection.

Date 17-11-67 Signed Quil State Province and No. 1

(Nat'l Board: State, Province and No. 1 CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code. "U" Certificate of Authorization No. (Assembler that certified and constructed field assembly) CERTIFICATE OF FIELD ASSEMBLY INSPECTION i, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and/or the State or Province of ___ and employed by_ with the described pressure vessel and state that parts referred to as data items. certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and ass bled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic testpsi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pre vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personel

[Nat'l Board (incl endorservents), State, Prov. and No.

(12/82)

injury or property damage or a loss of any kind arising from or connected with this Inspection.