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NCBC GULFPORT  
5090.3a

MEMORANDUM FROM U S NAVY REGARDING EQUIPMENT PROCUREMENT FOR THE  
DISPOSAL OF HERBICIDE ORANGE NCBC GULFPORT MS  
11/27/1974  
INDIAN HEAD NSWC

For Code 430  
Mr. HADDEN/MORAN

11/27/74  
FWB

MEMORANDUM

From: 5852C F.W. Bewley  
Bldg. 435  
Naval Ordnance Station  
Indian Head, Md. 20640

To: Mr. Claude Anderson 12.1  
N.C.B.C., Gulfport, Miss.

Subject: Herbicide Orange Disposal; Equipment procurement for:

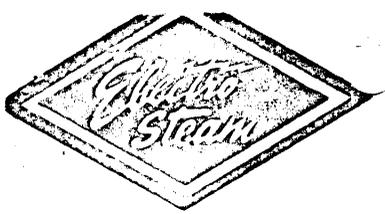
Ref. (a) 5852C:FWB 4235 dated 25 October 1974

- 1- Enclosed are copies of additional requisitions for equipment recently ordered for H-O Disposal Operations:

<u>Code</u>	<u>Date</u>	<u>Req.</u>	<u>Control</u>	
	<u>Order</u>	<u>Serial</u>	<u>No.</u>	
	4326	5274	0071599	(Pumpout Station) Aluminum Pipe
	4326	5275	0071831	" " Hose Pieces
	4326	5276	0071833	" " Foot Valve
	4326	5277	0071834	" " Gate Valves
	4326	5279	0071835	Tool Balancers

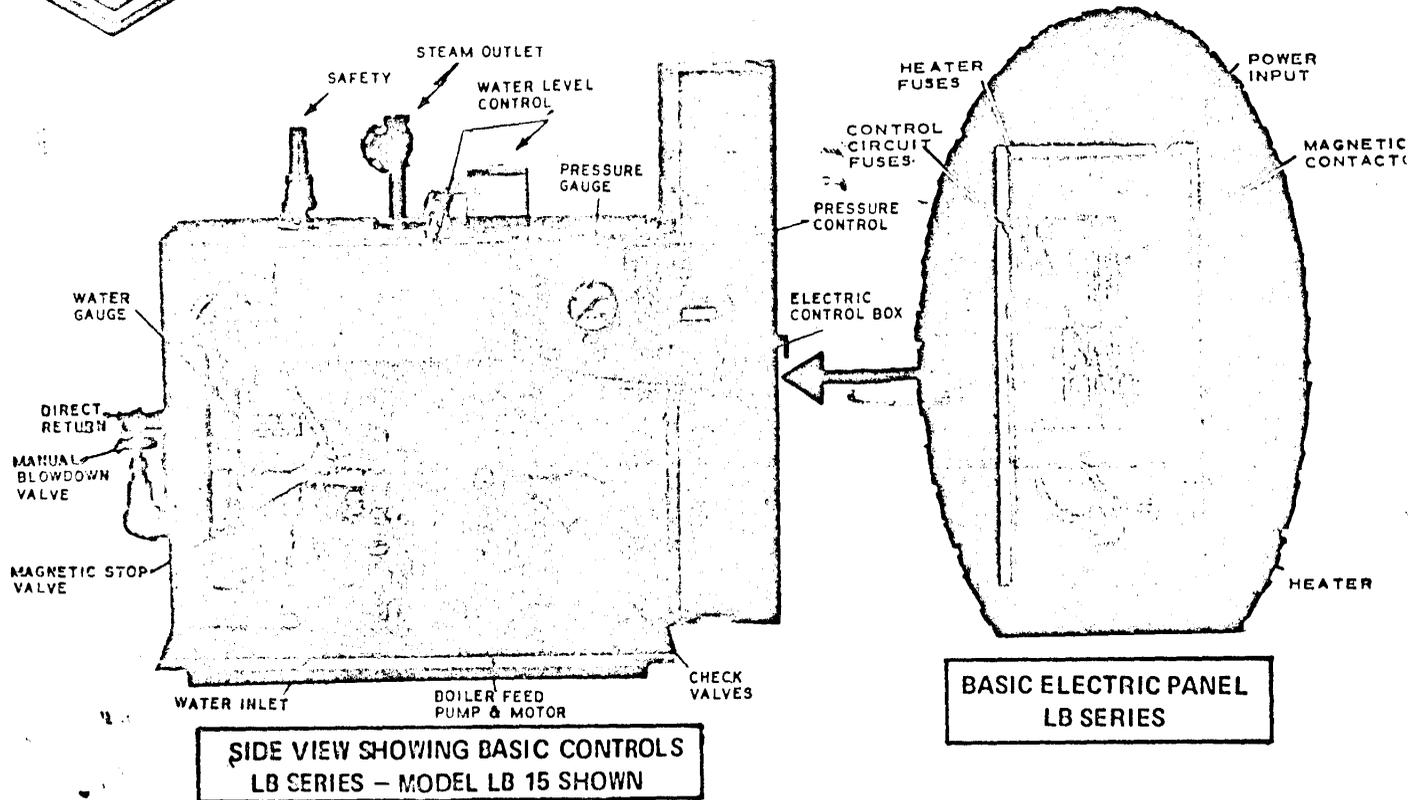
- 2-For PW information (Mr. Hadden/Moran) also enclosed is copy of steam generator equipment offered by Electro-Steam Gen. Corp. of Arlington, Va. I am also contacting Bryan Steam Corp. (thru local distributors), who make circulating hot water heaters applicable to heating tank cars (possible cold weather operations). Will you please transmit this information to PW.

*F.W. Bewley*  
F.W. Bewley



ALEXANDRIA, VIRGINIA

ENGINEERING BULLETIN - "LITTLE GIANT" - L. B. GENERATOR



**GENERAL DESCRIPTION**—The Electro-Steam Generator is a factory assembled and wired unit complete with all necessary automatic controls. Each unit is constructed under the A.S.M.E. Boiler and Pressure Vessel Code-Section 1-Part PMB (Miniature Boilers). Each generator is individually inspected during manufacture by an authorized insurance company Boiler Inspector-holding a National Board Commission-and is stamped with a NATIONAL BOARD number, is U.L. listed and meets OSHA requirements. Each generator is composed of one section with a steam space in the upper part (see drawings-reverse side). Heat source is All-Electric stainless steel immersion heater inserted horizontally in each water drum. All generators are completely jacketed in aluminum backed fiber-glass blanket insulation and encased in a 20 gauge sheet metal cabinet finished in baked enamel. Due to the absence of an impinging flame on the tube-the flameless nature of electric heat-and EXPANSION AND CONTRACTION of electric heater rod-sheathing (due to frequent OFF-ON operation design)—the SCALING action normally encountered in combustion type boilers is virtually eliminated.

**HEATING ELEMENT CONSTRUCTION**—Stainless steel sheath, magnesium oxide compacted, using 80-20% nicrome wire; entire element silver-brazed into a removable standard 150 lb. test-forged steel flange.

**EQUIPMENT**—Standard equipment consists of steam pressure gauge, A.S.M.E. approved safety valve, steam outlet valve, blown down valve, two (2) water feed line check valves, water gauge with glass and guard rods, complete controls (see below) and all inter connecting pipe and fittings fully mounted and connected at the factory.

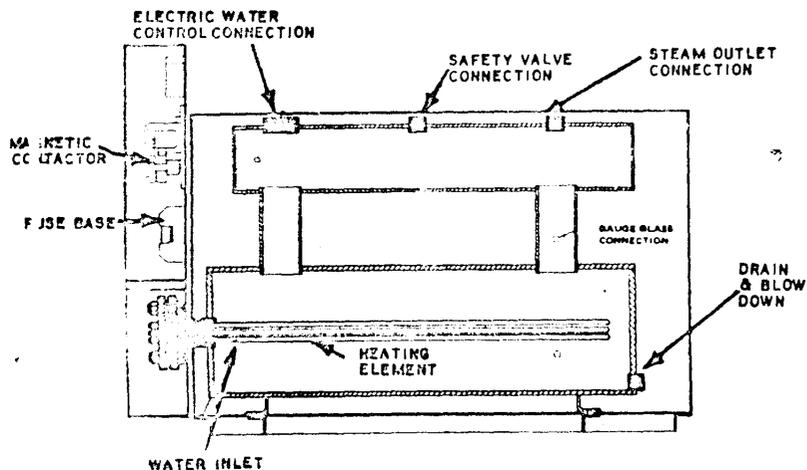
**CONTROLS**

- 1 — **High Pressure Package** — combination high pressure pump control, water level control and low water cut off, steam pressure control adjustable for desired working pressure, direct motor driven pump equipped with thermal overload/protection, and a magnetic stop valve with strainer on water feed line.
- 2 — **Low Pressure Package (0-30 lbs PSI)**—Same controls as High Pressure Package less direct motor driven pump.

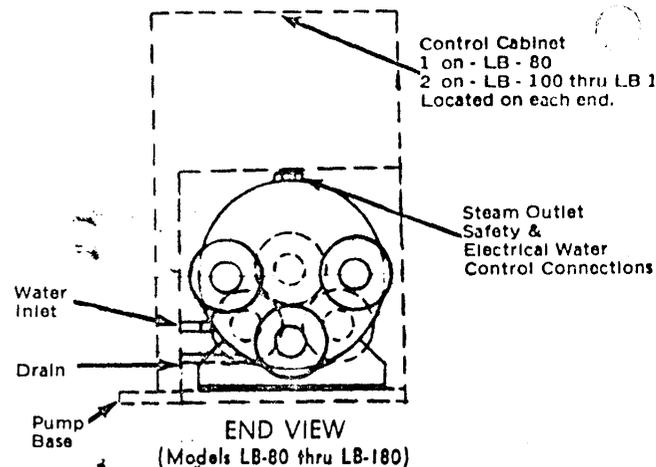
**ELECTRIC CONTROL BOX**—All above controls are wired at factory to unit-mounted control box, operated by single "Off-On" pilot switch, complete and ready for electrical line service only at point of installation.

DETAILED CHART — REVERSE SIDE

*Possible Item 20 (By other)*



**TYPICAL CUT-AWAY BASIC SECTION  
LB SERIES (Models LB-10 to LB-60)**



Note No. 1

All units require an additional 18" of floor space (length and width) for ideal plumbing connections and service.

Note No. 2

All units require an additional 36" clearance at front for opening of electric panel box and servicing of electric heater.

**LB SERIES-ELECTRO STEAM GENERATORS**

MODEL NUMBER		LB-10	LB-15	LB-20	LB-25	LB-30	LB-40	LB-50	LB-60	LB-80	LB-100	LB-120	LB-150	LB-180
Electric Rating	KW	10.0	15	20	25	30	40	50	60	75	100	120	150	180
Developed Boiler Horse Power	BHP	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	7.5	10.0	12.0	15.0	18
Steam Capacity (From & At 212 F)	LB/HR	34.5	51.7	69	86	103.5	138	173	207	258	345	414	518	654
Gross BTU Output (100% Rating)	BTU/HR	33,500	50,200	67,000	83,750	100,400	133,900	167,500	201,000	251,250	334,800	402,000	502,300	602,600
Number of Sections	Units	1	1	1	1	1	1	1	1	1	1	1	1	1
Dim. Steam Header (Per Section)	Inches	4	4	4	4	4	5	5	5	—	—	—	—	—
Dim. Water Header (Per Section)	Inches	8	8	8	8	8	10	10	10	16	16	16	16	16
<b>DIMENSIONS*</b>														
Height, Overall (Including Fittings)	Inches	28	28	28	28	28	33	33	33	37	37	37	37	37
Length, Overall (Including Fittings)	Inches	34	34	49	49	49	49	49	49	52	52	52	52	52
Width, Overall (Including Fittings)	Inches	21	21	21	21	21	26	26	26	28	28	28	28	28
Pump Capacity at 100 PSI	GAL/HR	90	90	90	90	90	90	90	156	156	156	156	156	156
Amperage 3Ø 220V	AMPS	26	40	53	66	79	105	132	157	198	262	315	395	473
1Ø 220V	AMPS	46	68	91	114	136	None	None	None	—	—	—	—	—
Water Capacity	GAL	4	4	6.5	6.5	6.5	8.2	8.2	8.2	25	25	25	25	25
Shipping Weight H. P. Model	LB	200	200	350	350	350	450	450	450	650	700	700	700	700
Shipping Weight L. P. Model	LB	175	175	325	325	325	425	425	425	625	675	675	675	675

\*Does Not Include Space Required For Opening of Electric Panel Door and Removing Heating Element.

Dimensions herein specified are subject to construction variations. We reserve the right to make changes in the design without notice, and without obligation to make such changes on machines previously sold.

Roughing-in drawings for all models are available on request.

**ELECTRICAL SPECIFICATIONS — ALL MODELS**

1. **STANDARD UNITS** - are AC - 208 volts through 240 volts, 60 cycle, 3 phase.

**SINGLE PHASE** - available on models up to and including Model LB-30 only.

2. **440-480 VOLTS** - available in 3 phase - all models.

**SINGLE PHASE** - available up to and including Model LB-40 only.

3. **SPECIAL ELECTRICAL REQUIREMENTS** - (550 volts - 50 cycle - etc.) available at special order upon request.

ALWAYS SPECIFY CURRENT CHARACTERISTICS (voltage-cycle-phase).



# THE ELECTRIC-STEAM GENERATOR CORP.

642 BERNARD STREET, ALEXANDRIA, VIRGINIA 22314, PHONE 649-0064 or 649-4743 (AREA CODE 703)

## Price List - GENERATORS

All Prices F.O.B. Alexandria, Va.

MODELS	LB-10	LB-15	LB-20	LB-25	LB-30	LB-40	LB-50	LB-60	LB-80	LB-100	LB-120	LB-150	LB-18
1. HIGH PRESSURE (0-100 lbs. PSI)	\$915	\$945	\$1025	\$1185	\$1425	\$1635	\$1780	\$2015	\$2395	\$2725	\$2935	\$3325	\$3650

**IMPORTANT**—In addition to Standard A.S.M.E. Boiler Trim, our High Pressure Package comes complete with High Pressure Automatic Water Feed Assembly—including Pump, Motor and all controls mounted and wired as single Package—as standard equipment.

2. LOW PRESSURE (0-30 lbs. PSI)	\$820	\$860	\$925	\$1080	\$1315	\$1525	\$1665	\$1885	\$2295	\$2575	\$2775	\$3045	\$3400
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### OPTIONAL (Electric and Accessories)

Single Phase	<b>ADD:</b>	\$35	\$35	\$50	\$75	\$100	Not Available						
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440-480 Volt

a. Dual Service 220/440-480 Volt @ no additional charge

b. Single Service—Transformer Pkg: ADD \$100 for all models

550-600 Volt

a. Dual Service: ADD \$50

b. Single Service—Transformer Pkg: ADD \$150

Automatic Flush & Drain System

ADD \$175 for all models

### Condensate Return System

High Pressure Pkg.—ADD \$285 \$285 \$285 \$285 \$285 \$285 \$305 \$305 \$305 \$305 \$305 \$325 \$325

Low Pressure Pkg.—ADD \$335 \$335 \$335 \$335 \$335 \$335 \$360 \$360 \$360 \$360 \$360 \$395 \$395

### SPECIFICATIONS (All Models)

Boiler H. P. (Horse Power) 1 1½ 2 2½ 3 4 5 6 7.5 10 12 15 18

Capacity—lbs. steam per hour 34.5 51.7 69 86.2 103.5 138 172.5 207 258 345 414 517 621

Electrical Heating Capacity (KW) 10 15 20 25 30 40 50 60 75 100 120 150 180

### Electrical Specifications

Standard Models are 208-240 Volt-60 Cycle-3 phase.

D mensions: Width (Inches) 21 21 21 21 21 26 26 26 28 28 28 28 28

Length (inches) 36 36 48 48 48 50 50 50 52 52 52 52 52

Height (inches) 28 28 28 28 28 33 33 33 37 37 37 37 37

Shipping Weight: Low Pressure 175 175 325 325 325 425 425 425 625 675 675 675 675

High Pressure 200 200 350 350 350 450 450 450 650 700 700 700 700

**IMPORTANT:** All above generators are manufactured in accordance with A.S.M.E. Code, Section 1, Par. 350 (Miniature Boilers)—National Board Boiler & PVI Stamped—U.L. and C.S.A. listed.