CP&L
Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429

June 8, 1983

FILE: B09-13510A
SERIAL: BSEP/83-1627

Mr. James P. O'Reilly, Administrator
U. S. Nuclear Regulatory Commission
Region II, Suite 3100
101 Marietta Street N.W.
Atlanta, GA 30303

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 & 2
DOCKET NO. 50-325 & 50-324
LICENSE NOS. DPR-71 & DPR-62
RESPONSE TO IE BULLETIN 83-03

Dear Mr. O'Reilly:

Carolina Power & Light Company has received Mr. R. C. DeYoung's letter of March 10, 1983, transmitting IE Bulletin 83-03, Check Valve Failures in Raw Water Cooling Systems of Diesel Generators, and hereby responds to that bulletin.

A review of documentation on diesel generator check valves indicates that the Brunswick station uses TECHNO check valves instead of the Crane check valves identified in the bulletin. Enclosed with this response is a valve arrangement drawing of this valve which shows that the operability concerns of the Crane valves are not present in those valves used at the Brunswick station.

A review of the maintenance history for TECHNO check valves used throughout the plant indicates that no failures in which the disk has separated from the valve body have occurred. Only minor maintenance problems have been encountered, and these problems were not associated with the diesel generator check valves.

A review of the pump and valve inservice test program required by Section XI of the ASME Boiler and Pressure Vessel shows that the eight valves associated with the diesel generators (two per diesel generator) are being tested under this program. These valves are checked quarterly by using a forward flow test. A listing of these valves and a simplified drawing of their location is enclosed. As directed by the bulletin, these valves will be incorporated in

IE11

a test program that will include an inspection of the valve internals to verify operability on a two-per-year periodicity (one diesel). All eight valves will have received an initial internal inspection by the completion of the upcoming Unit No. 2 Maintenance outage scheduled to commence in September 1983. Following the completion of this initial test, a report describing the results will be submitted within the required 90 days.

Very truly yours,

M a M. Duffi

for P. W. Howe - Vice President
Brunswick Nuclear Project

RMP/mcg/LETCG1

Enclosures

cc: Mr. R. C. DeYoung
NRC Document Control Desk

P. W. Howe, having been first duly sworn did dispose and say that the information contained herein is true and correct to his own personal knowledge or based upon information and belief.

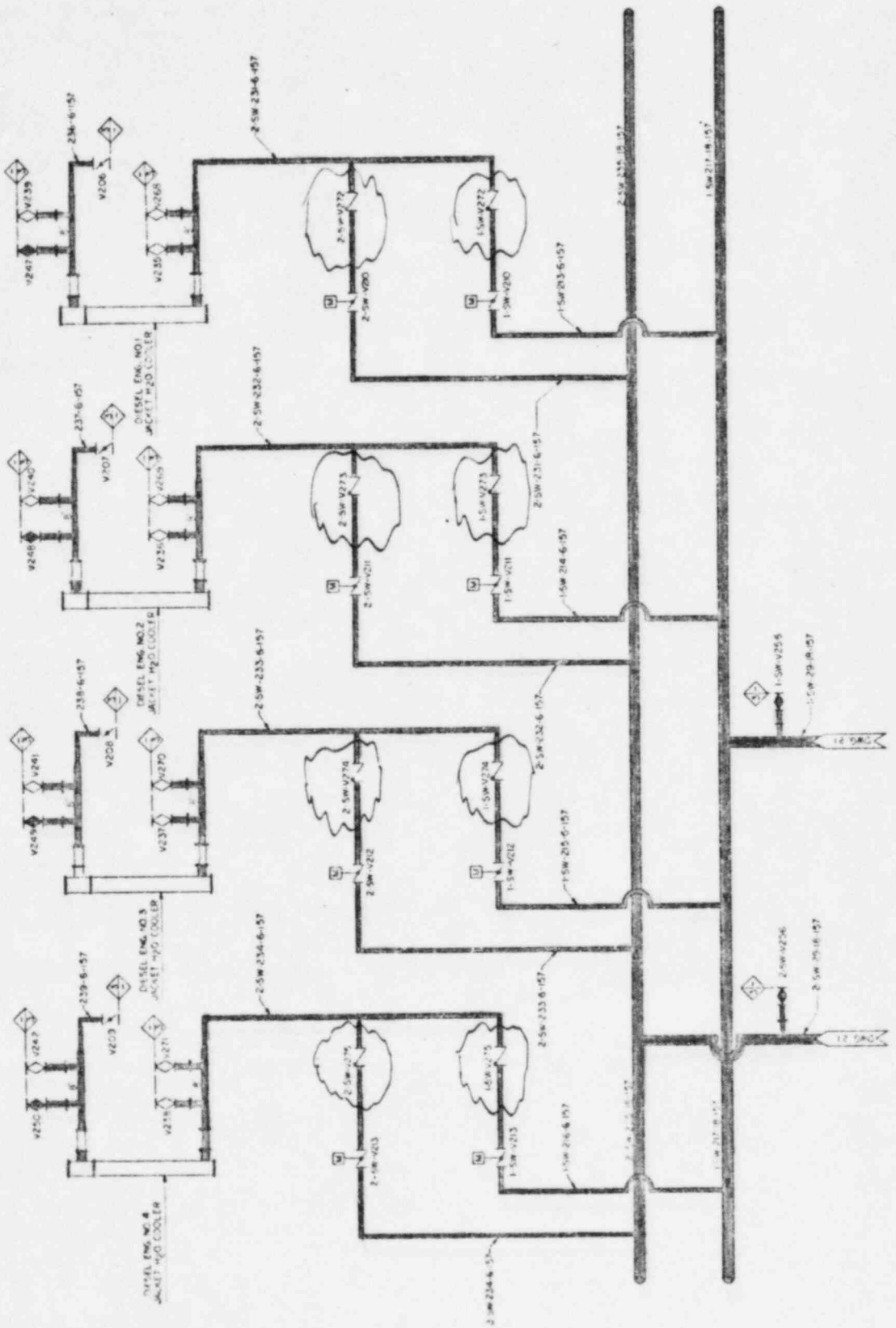
Marsha N. Stone
Notary (Seal

My commission expires: 3-22-87

DIESEL GENERATOR CHECK VALVE TEST PROGRAM

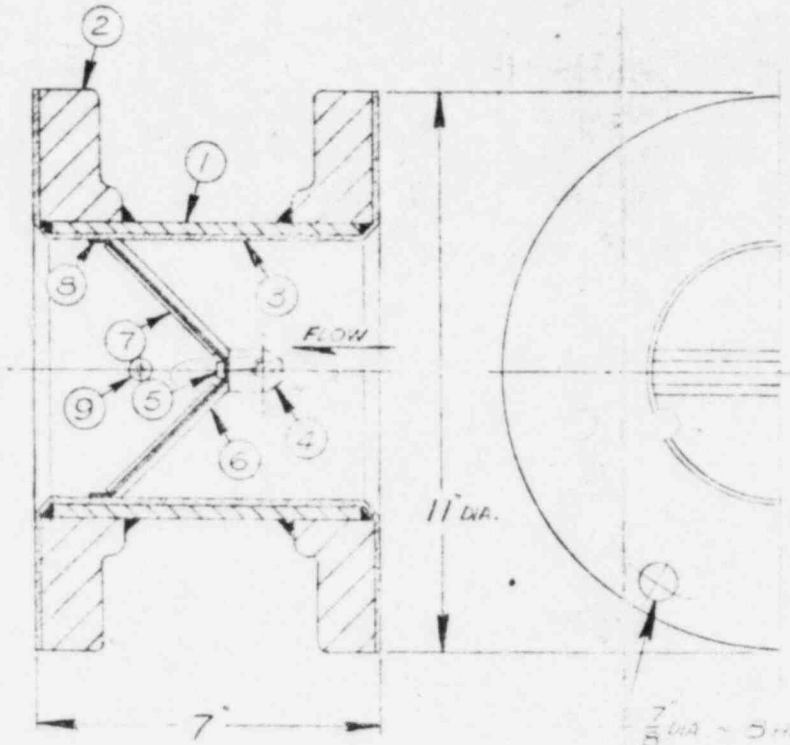
Valve No.	Class	Drwg Coord	Valve Cat A	B	C	D	Pas	Size (in)	Vlv Type	Act Type	Nor Pos	Test Req	Code Except	Alt Tstg	Test Freq	Acpt Cri	Remarks	Test Procedure
1-SW-V272	3	C-7		X				6	CK	SA	--	S			Q		Forward flow test	12.2a
2-SW-V272	3	C-7		X				6	CK	SA	--	S			Q		Forward flow test	12.2a
1-SW-V273	3	C-5		X				6	CK	SA	--	S			Q		Forward flow test	12.2b
2-SW-V273	3	C-5		X				6	CK	SA	--	S			Q		Forward flow test	12.2b
1-SW-V274	3	C-4		X				6	CK	SA	--	S			Q		Forward flow test	12.2c
2-SW-V274	3	C-4		X				6	CK	SA	--	S			Q		Forward flow test	12.2c
1-SW-V275	3	C-3		X				6	CK	SA	--	S			Q		Forward flow test	12.2d
2-SW-V275	3	C-2		X				6	CK	SA	--	S			Q		Forward flow test	12.2d

ATTACHMENT I

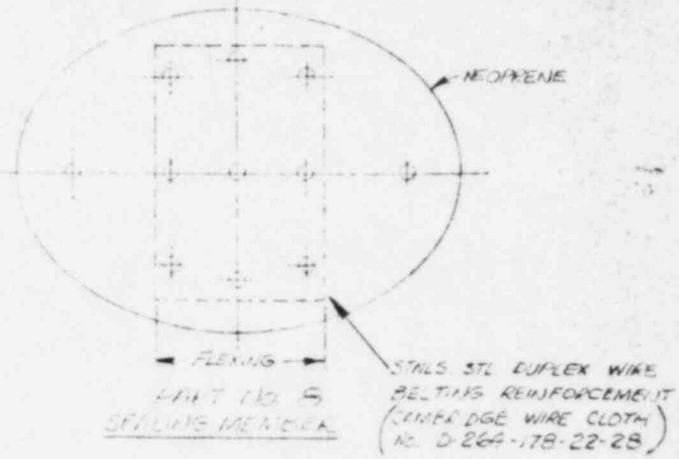


ATTACHMENT 5 1 of 2

PART NO.	DESCRIPTION
1	BODY, STEEL TUBING ASTM A-53, B
2	FLANGES, FORGED STL 125# LW ASTM A-181 GRADE I
3	LINER, NATURAL HARD RUBBER
4	HINGE POST, MONEL 400 ASTM B164-61T
5	HINGE CLAMP, MONEL 400 ASTM B127-61T
6	VALVE PLATES, MONEL 400 ASTM B127-61T
7	CLAMP PLATES, MONEL 400 ASTM B127-61T
8	SEALING MEMBER, NEOPRENE WITH STNLS. STL REINFORCING
9	TRAVEL STOP, MONEL 400 ASTM B164-61T



$\frac{7}{8}$ DIA - 8 HOLES EQUALLY SPACED ON $9\frac{1}{2}$ DIA B.C.



TAG: 1-SW-V272 TO 1-SW-V275
2-SW-V272 TO 2-SW-V275

WEIGHT: 47 LBS.

CAROLINA POWER & LIGHT CO.

NO 9527-01-248-32

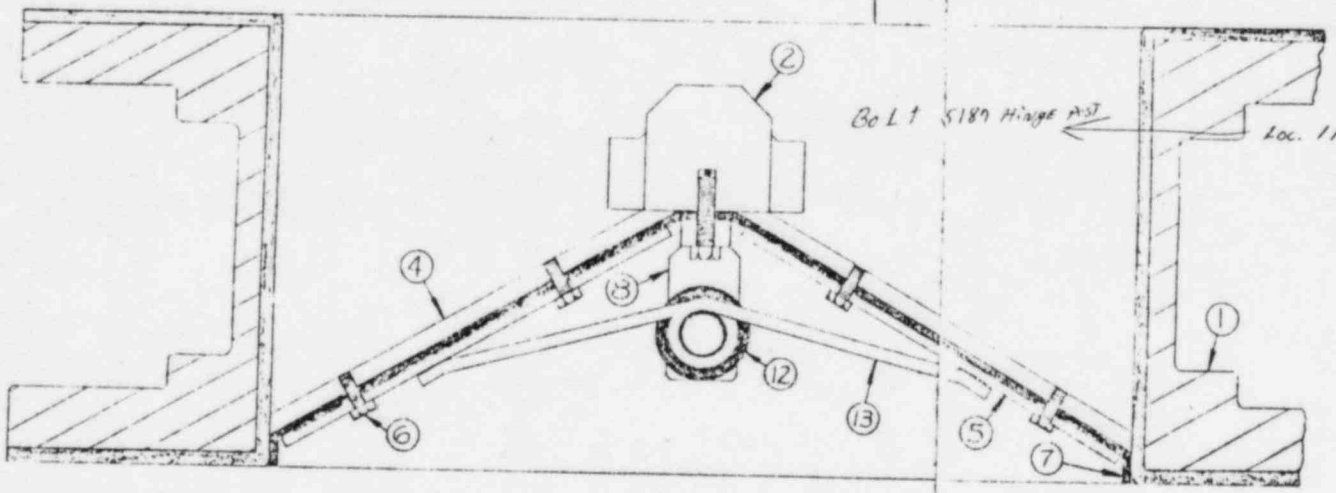
TECHNO CORP.
ERIE, PA.

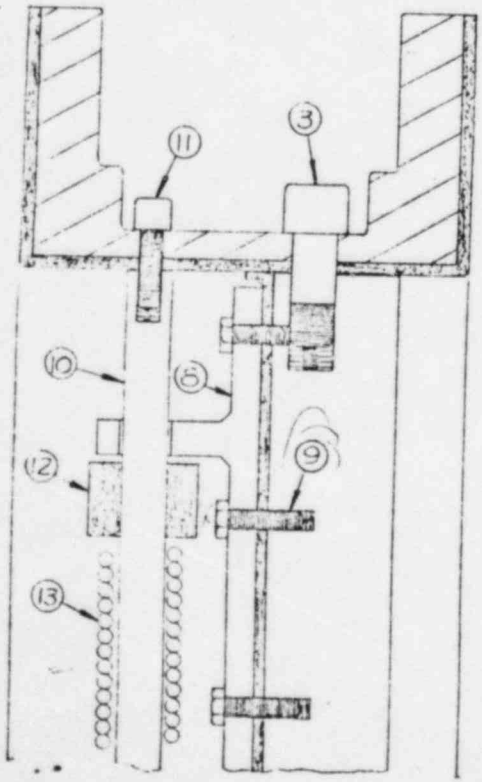
INSTALLATION DRAWING

6 IN RUBBER LINED TECHNOCHECK VALVE

DWN BY	SCALE	DWG NO.
RLM	1/4	5199
DATE		
JUNE 2, 1972		

ATTACHMENT 5





NO	DESCRIPTION
1	BODY - STEEL, RUBBER LINED, DWG 3451, 3452
2	HINGE POST - MONEL 400, DWG 3453, 4076
3	HINGE POST BOLTS - 3/8-11 X 1 1/2 SHCS, 316 S.S. W/SHOULDER & NYL. WASH.
4	VALVE PLATE - MONEL 400, DRAWING 3455
5	CLAMP PLATE - MONEL 400, DWG. 3456
6	VALVE PLATE SCREWS - MONEL 400, 1/2-20 HHCS X 1 1/2
7	SEALING MEMBER - NEOPRENE 1/8" S. MESH, #3457
8	HINGE CLAMP - MONEL 400, DWG. 3454, 4076
9	HINGE CLAMP SCREWS - 1/4-20 HHCS X 1" & 5/8" MONEL 400
10	TRAVEL STOP ROD - MONEL 400, DWG. 3459
11	TRAVEL STOP BOLTS - 3/8-16 X 1" SHCS, 316 S.S. W/NYLON WASHER
12	TRAVEL STOP PADS - NATURAL RUBBER 1 1/2" O.D. X 3/8" I.D. X 1" LONG
13	RETURN SPRING - TYPE 302 S.S., DWG. 3777.

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC STATION
SPEC. NO. 9527-01-245-32
SCREEN WASH SYSTEM

TECHNO CORP
ERIE, PA.

SCALE ~	APPROVED BY:	DRAWN BY GGW
DATE APRIL 7, 1976		REVISED

ARRANGEMENT DRAWING
12 MODEL S.F. TECHNOCHOCK VALVE

REFERENCE 5187

DRAWING NUMBER 5380