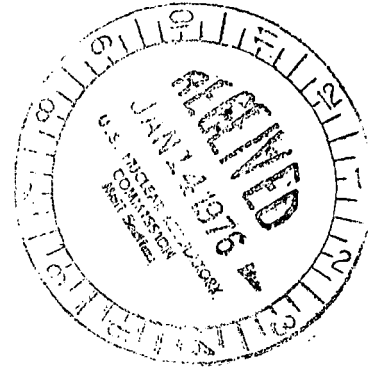


VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

January 13, 1976



COPIES

Mr. Norman C. Moseley, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Serial No. 854
PO&M/ALH:clw

Docket No. 50-280
License No. DPR-32

Dear Mr. Moseley:

Pursuant to Surry Power Station Technical Specification 6.6.B.1,
the Virginia Electric and Power Company hereby submits forty (40) copies
of Abnormal Occurrence Report No. AO-S1-75-30.

The substance of this report has been reviewed by the Station Nuclear
Safety and Operating Committee and will be placed on the agenda for the
next meeting of the System Nuclear Safety and Operating Committee.

Very truly yours,

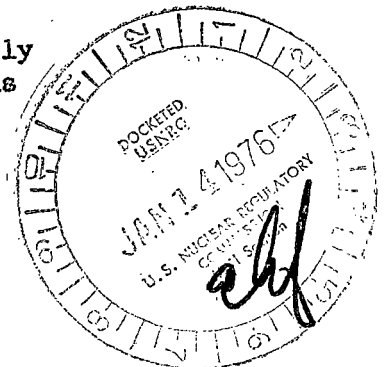
C. M. Stallings

C. M. Stallings
Vice President-Power Supply
and Production Operations

Enclosure
40 copies of AO-S1-75-30

cc: Mr. Robert W. Reid, Chief
Operating Reactors Branch 4

Mr. Bryce P. Schofield, Director ✓
Bureau of Industrial Hygiene
Commonwealth of Virginia



LICENSEE EVENT REPORT

AO-S1-75-30

CONTROL BLOCK:

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[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME						LICENSE NUMBER						LICENSE TYPE			EXPIRES									
01	V	A	S	P	S	1	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	0	0	1
7	8	9				14	15										25	26				30	31	32

CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER						EVENT DATE			REPORT DATE										
01	CONT	P	O	T	L	0	5	0	-	0	2	8	0	1	2	3	0	7	5	0	1	0	9	7	6
7	8	57	58	59	60	61							66	69					74	75					

EVENT DESCRIPTION

02	While operating at 100 per cent power a component cooling water/service water heat	80
03	exchanger was opened for cleaning. Two tubes that had been previously plugged were	80
04	noted leaking indicating that an inadvertent release of low level radioactive water	80
05	to the James River had occurred. The leak rate was measured to be .008 gal per	80
06	minute. The heat exchanger was isolated, preventing further release. This (con't)	80

SYSTEM CODE		CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER			VIOLATION		
07	W	B	F	H	T	E	X	C	H	A	Y	0	3	0	Y
7	8	9	10	11	12				17	43	44			47	48

CAUSE DESCRIPTION

08	A Yuba Heat Transfer Division 51-449 heat exchanger had 36 tubes plugged as the	80
09	result of eddy current tests. Two plugs worked partly out during operation and	80
10	caused leakage from component cooling water to service water. The plugs were (con't)	80

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION																
11	E	1	0	0	N/A	B	R	o	u	t	i	n	e	c	l	e	a	n	g	i	n	g		
7	8	9	10	12	13	44	45	46																80

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE																														
12	M	M	U	n	k	n	T	u	r	b	i	n	e	b	u	i	l	d	i	n	g	,	J	a	m	e	s	R	i	v	e	r				
7	8	9	10	11		44	45																													80

PERSONNEL EXPOSURES

NUMBER		TYPE		DESCRIPTION	
13	0	0	0	Z	N/A
7	8	9	11	12	13

PERSONNEL INJURIES

NUMBER		DESCRIPTION		
14	0	0	0	N/A
7	8	9	11	12

OFFSITE CONSEQUENCES

15	N/A	80
7	8	9

LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION	
16	Z	N/A	
7	8	9	10

PUBLICITY

17	N/A	80
7	8	9

ADDITIONAL FACTORS

18		80
7	8	9

19		80
7	8	9

NAME: E. M. Sweeney, Jr. PHONE: (804) 357-3184

EVENT DESCRIPTION (con't)

is contrary to Technical Specification 1.0.I.3.

CAUSE DESCRIPTION (con't)

replaced. Two other similar heat exchangers have experienced tube leakage (AO-S1-74-13, AO-S1-74-16). The three remaining heat exchangers were opened and inspected for tube leaks and none were found.

A design change is presently in progress to improve the radiation monitor system for service water leaving the component cooling water heat exchangers. Until it is completed a daily sample will be taken of service water for activity.

Based on the measured release rate the prorated average for all radionuclides released was 1.66×10^{-4} per cent MPC. The heat exchanger was last inspected on September 23, 1975. The estimate for total curies released is based on a leak rate of .008 gal per minute for the 98 days since the last inspection. This value is .018 curies. Because of these very low values for per cent MPC and total curies the health and safety of the general public were not affected by this occurrence.