

17-771

U.S. NUCLEAR REGULATORY COMMISSION

# LICENSEE EVENT REPORT

CONTROL BLOCK: 

1	2	3	4	5	6
---	---	---	---	---	---

 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

LICENSEE CODE: 

0	1	N	C	R	F	P	1
---	---	---	---	---	---	---	---

 LICENSE NUMBER: 

2	0	0	-	0	0	0	0	0	0	-	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---

 LICENSE TYPE: 

3	4	1	1	1	1
---	---	---	---	---	---

 CAT: 

4	5
---	---

CON'T

REPORT SOURCE: 

0	1	L
---	---	---

 DOCKET NUMBER: 

6	0	5	0	-	0	3	2	5
---	---	---	---	---	---	---	---	---

 EVENT DATE: 

7	1	2	3	0	7	8
---	---	---	---	---	---	---

 REPORT DATE: 

8	0	1	2	6	7	9
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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On 12/29/78 (0600) reactor vessel conductivity exceeded 2 umhos/cm (and peaked at 4.51 umhos/cm, 2105)

Conductivity remained above 2 umhos/cm for 25 hours (until 12/30/78, 0700), exceeding the 24 hour limit. (Technical Specification 3.4.4)

SYSTEM CODE: 

0	9	M	A
---	---	---	---

 CAUSE CODE: 

1	X
---	---

 CAUSE SUBCODE: 

1	X
---	---

 COMPONENT CODE: 

1	Z	1	Z	1	Z	1	Z	1	Z
---	---	---	---	---	---	---	---	---	---

 COMP. SUBCODE: 

1	Z
---	---

 VALVE SUBCODE: 

1	Z
---	---

LER/RO REPORT NUMBER: 

1	7	8
---	---	---

 EVENT YEAR: 

1	7	8
---	---	---

 SEQUENTIAL REPORT NO.: 

1	0	9	0
---	---	---	---

 OCCURRENCE CODE: 

1	0	3
---	---	---

 REPORT TYPE: 

1	L
---	---

 REVISION NO.: 

1	0
---	---

ACTION TAKEN: 

1	X
---	---

 FUTURE ACTION: 

1	X
---	---

 EFFECT ON PLANT: 

1	Z
---	---

 SHUTDOWN METHOD: 

1	Z
---	---

 HOURS: 

1	0	0	0	0
---	---	---	---	---

 ATTACHMENT SUBMITTED: 

1	Y
---	---

 NRPD-4 FORM SUB.: 

1	N
---	---

 PRIME COMP. SUPPLIER: 

1	Z
---	---

 COMPONENT MANUFACTURER: 

1	Z	1	9	1	9	1	9
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CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

Apparently an organic compound in the condensate storage tank (reference LER 1-78-86) caused the conductivity to exceed the 24-hour limit. When reactor vessel conductivity exceeded 2 umhos/cm., (1) Control Rod Drive (CRD) flow was reduced to a minimum to limit the use of water from the Condensate Storage Tank (CST); (2) Reactor Water Cleanup (RWCU) discharge water was routed to the condenser hotwell; (continued)

FACILITY STATUS: 

1	5	E
---	---	---

 % POWER: 

1	0	3	4
---	---	---	---

 OTHER STATUS: 

1	30	NA
---	----	----

 METHOD OF DISCOVERY: 

1	31	B
---	----	---

 DISCOVERY DESCRIPTION: 

1	32	Chemistry Sampling
---	----	--------------------

ACTIVITY RELEASED: 

1	6	Z
---	---	---

 CONTENT OF RELEASE: 

1	33	Z
---	----	---

 AMOUNT OF ACTIVITY: 

1	34	NA
---	----	----

 LOCATION OF RELEASE: 

1	36	NA
---	----	----

PERSONNEL EXPOSURES: NUMBER: 

1	7	0	0	0
---	---	---	---	---

 TYPE: 

1	37	Z
---	----	---

 DESCRIPTION: 

1	38	NA
---	----	----

PERSONNEL INJURIES: NUMBER: 

1	8	0	0	0
---	---	---	---	---

 DESCRIPTION: 

1	40	NA
---	----	----

LOSS OF OR DAMAGE TO FACILITY: TYPE: 

1	9	Z
---	---	---

 DESCRIPTION: 

1	42	NA
---	----	----

PUBLICITY ISSUED: 

1	2	0	N
---	---	---	---

 DESCRIPTION: 

1	44	NA
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7901300178

NRC USE ONLY

1901300178

A. C. Tollison, Jr.

PHONE: (919) 457-6701

LER SUPPLEMENT -- RO #1-78-090

Facility: BSEP Unit #1

Event Date 12/30/78

(3) the condenser hotwell was drawing makeup water from the Demineralized Water Storage Tank (DWST) rather than the CST;  
(4) later during the day, power was reduced to <50% and the heater drain pumps secured to increase cleanup by the Condensate Filter Demineralizers (CFD) and Condensate Deep-bed Demineralizers (CDD).

Qualified contract and Carolina Power & Light Company personnel are continuing research on the conductivity event in an effort to specifically determine its origin and to develop sampling techniques to detect the compound and eliminate it.