UPDATE REPORT - PREVIOUS REPORT DATE 4/12/82 LICENSEE EVENT REPORT CONTROL BLOCK (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 1 1 1 1 1 (4) 11 0 11 M ID IC IC 12 LICENSE NUMBER LICENSEE CODE CON'T REPORT 81 2 (3) 0 4 1 3 8 2 (9) 011 SOURCE REPORT DATE DOCKET NUMBER EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) ON APRIL 1, 1982, AN UNPLANNED GAS RELEASE WAS DETECTED BY AN ELEVATED UNIT 2 VENT 0 2 STACK GASEOUS MONITOR (R-26) READING. THIS EVENT CONTINUED FOR SEVERAL DAYS WITH 0 3 LOW LEVEL GASEOUS RELEASES BEING DETECTED BY BOTH R-26 IN UNIT 1 AND UNIT 2. DURING 0 4 THIS TIME PERIOD, A TOTAL OF 118.0 Ci WERE RELEASED AT A RATE OF 2.23 E-4 Ci/Sec., 0 5 WHICH IS 0.382% OF THE TECH. SPEC. LIMIT. THE MAXIMUM RELEASE RATE WAS 2.23 E-3 0 6 Ci/Sec., WHICH IS 3.78% OF THE TECH. SPEC. LIMIT. THIS RELE GE OCCURRED WITHOUT THE 0 7 SAMPLING AND ANALYTICAL REQUIREMENTS OF TECH. SPEC., APPENDIX B, 2.4.4.E. 0 3 SYSTEM CODE COMP VALVE CAUSE CAUSE CODE COMPONENT CODE SUBCODE SUBCODE B | (13) IP I VIALLIVIEIXIA D 1(15 MIA (16) 1. 01 REVISION OCCURRENCE SEQUENTIAL REPORT NO. REPORT LER RO EVENT YEAR CODE NO TYPE 10 TI 0 1 21 01 10141 REPORT 8121 NUMBER 31 32 27 27 30 26 28 29 COMPONENT ATTACHMENT SUBMITTED NPRO-4 PRIME COMP SUPPLIER ACTION FUTURE TAKEN ACTION EFFECT ON PLANT METHOD FORM SUB HOURS (22) MANUFACTURER Y (24) Y 23 6 2 5 5 26 Z 1(21 N (25 0 0 0 0 0 0 18) CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27 INITIAL INVESTIGATION REVEALED THAT A SMALL LEAK WAS OCCURING FROM THE SEAL ON UNIT 2 1 EAST CENTRIFUGAL CHARGING PUMP. PUMP ISOLATION REDUCED THE RELEASE RATE BUT DID NOT RETURN THE R-26 READINGS TO NORMAL BACKGROUND. ON APRIL 7, 1982, THE UNIT 2 REACTOR 117 COOLANT FILTER WAS REMOVED FROM SERVICE FOR A ROUTINE FILTER CHANGE. AT THIS TIME BOTH R-26 MONITORS RETURNED TO NORMAL BACKGROUND. (SEE ATTACHED SUPPLEMENT) 1 4 80 METHOD OF FACILITY (30) DISCOVERY DESCRIPTION (32) OTHER STATUS S POWER A 31 RADIATION MONITORING ALARM C 28 01 91 9129 NA 80 ACTIVITY CONTENT 13 (36) AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE RELEASED OF RELEASE AUXILIARY BUILDING VENT TO ATMOSPHERE N (34) 118.0 Ci Xe-133 G (33) 60 PERSONNEL EXPOSURES DESCRIPTION (39) TYPE NUMBER 0 0 0 0 0 (37) Z (38) NA 80 13 PERSONNEL INJURIES DESCRIPTION (41 NUMBER 0 0 0 40 NA 80 LOSS OF OR DAMAGE TO FACILITY NA Z (42) 80 PUBLICITY NRC USE ONLY DESCRIPTION (45) SSUED (14) NA 1111111111 69 68 80. 204220517 820413 616-465-5901 PDR ADOCK 05000316 A. PALMER PHONE . PDR

ATTACHMENT TO LER#82-020/04T-0

SUPPLEMENT TO CAUSE DESCRIPTION

ON APRIL 1, 1982 AT 2100 HOURS, UNIT 2 VENT STACK GASEOUS MONITOR (2-R/26) INCREASED RAPIDLY. INVESTIGATION IDENTIFIED A SMALL LEAK ON THE UNIT 2 EAST CENTRIFUGAL CHARGING PUMP SEAL. THE PUMP WAS ISOLATED AT 1900 HOURS ON APRIL 2. AT THIS TIME THE GASEOUS RELEASE RATE DECREASED AS SEEN ON 2-R/26 BUT DID NOT CAUSE THE MONITOR TO RETURN TO ITS NORMAL BACKGROUND.

INVESTIGATION CONTINUED BY CHECKING ALL LIQUID DRAIN VALVES. THIS WAS DONE BECAUSE THE LIQUID OFF-GAS MONITOR (R/22) WAS PERIODICALLY INDICATING HIGH RADIOGAS ACTIVITIES IN THE WASTE HOLDUP TANKS AND SUMP TANKS.

ON APRIL 7, 1982 AT 0855 HOURS, THE UNIT 2 REACTOR COOLANT FILTER WAS ISOLATED TO CHANGE THE FILTER CARTRIDGE. SHORTLY AFTER THE FILTER WAS ISOLATED R/22 AND R/26 IN BOTH UNITS RETURNED TO NORMAL BACKGROUND. AFTER THE FILTER WAS REPLACED AND RETURNED TO SERVICE GASEOUS ACTIVITIES AT R/22 AND R/26 IN BOTH UNITS AGAIN WERE ELEVATED. THE FILTER WAS AGAIN ISOLATED AND ALL MONITORS RETURNED TO NORMAL.

EXAMINATION AT THE UNIT 2 REACTOR COOLANT FILTER DRAIN VALVE (2-CS-381) SHOWED THAT THE VALVE STEM HAD BEEN TWISTED AND THE DIAPHRAM WAS TORN. THIS CAUSED LIQUID TO LEAK PAST THE VALVE SEAT TO THE CLEAN SUMP TANK AND ALSO TO ATMOSPHERE AT THE FILTER. THESE LEAKS CREATED RADIOGASEOUS ACTIVITY AT R/26 IN BOTH UNITS AND R/22.

VALVE 2-CS-381 IS SUSPECTED OF HAVING BEEN DAMAGED ON A PREVIOUS FILTER CHANGE WHICH TOOK PLACE ON MARCH 30, 1982.

VALVE 2-CS-381 HAD BEEN CHECKED TO BE IN THE CLOSED POSITION EARLIER IN THE INVESTIGATION BY INSURING THAT THE REACH ROD FOR THE VALVE WAS NOT PARTIALLY OPEN. THIS TYPE OF CHECK WOULD NOT HAVE IDENTIFIED THAT THE VALVE HAD FAILED; THEREFORE, THE FAILURE REMAINED UNDETECTED UNTIL THE FILTER WAS REMOVED FROM SERVICE. DISASSEMBLY OF THE VALVE CONFIRMED THE FAILURE.

SUPPLEMENT TO CAUSE DESCRIPTION (Continued)

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THE TOTAL RELEASE DURING THIS TIME PERIOD FROM BOTH SOURCES: THE 2-EAST CENTRIFUGAL CHARGING PUMP AS WELL AS THE REACTOR COOLANT FILTER DRAIN VALVE FAILURE WAS:

TOTAL	1.18	E 2	Ci of Xe-133
	2.28	E-4	Ci/Sec
	3.82	E-1	% Technical Specification

THE MAXIMUM RELEASE RATE DURING THIS PERIOD WAS:

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2.25	E-3	Ci/Sec	
3.78	ΕO	% Technical	Specification