

**LICENSEE EVENT REPORT**

**CONTROL BLOCK:**

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	M	I	D	C	C	1	2	0	0	0	0	0	0	0	0	0	0	0	3	4	1	1	1	1	4			5	
7	8	LICENSEE CODE						14	15	LICENSE NUMBER											25	26	LICENSE TYPE				30	57	CAT	58

**CON'T**

0	1	REPORT SOURCE										DOCKET NUMBER										EVENT DATE										REPORT DATE									
7	8	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
		L	6	0	5	0	0	0	3	1	5	7	0	8	0	4	8	0	8	0	9	0	3	8	0	9															

**EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)**

0 2 | DURING LOW POWER PHYSICS TESTING FOLLOWING REFUELING THE BORON INJECTION TANK, AFTER

0 3 | A ROUTINE SAMPLING AND ANALYSIS, WAS DISCOVERED TO HAVE A BORON CONCENTRATION OF 19731

0 4 | PPM. THIS IS LESS THAN THE MINIMUM OF 20000 PPM REQUIRED BY T.S. 3.5.4.1.B. THERE

0 5 | WERE NO PROBABLE CONSEQUENCES.

0 6 |

0 7 |

0 8 |

7 8 9 80

09		SYSTEM CODE S F 11		CAUSE CODE X 12		CAUSE SUBCODE Z 13		COMPONENT CODE Z Z Z Z Z 14				COMP. SUBCODE Z 15		VALVE SUBCODE Z 16	
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
LER/RO REPORT NUMBER 17		EVENT YEAR 8 0 21 22		SEQUENTIAL REPORT NO. 0 1 7 24 25 26		OCCURRENCE CODE 0 3 28 29		REPORT TYPE L 30		REVISION NO. 0 32		ACTION TAKEN G 18 33			
FUTURE ACTION Z 19 34		EFFECT ON PLANT Z 20 35		SHUTDOWN METHOD Z 21 36		HOURS 0 0 0 0 22 37 38 39 40		ATTACHMENT SUBMITTED Y 23 41		NPRD-4 FORM SUB. N 24 42		PRIME COMP. SUPPLIER Z 25 43		COMPONENT MANUFACTURER Z 9 9 9 26 44 45 46 47	

### CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

IT IS BELIEVED THAT INADEQUATE MIXING BECAUSE OF LOW RECIRCULATION FLOW CAUSED THE CON-  
CENTRATION TO FALL BELOW MINIMUM. THE BIT HAD BEEN DRAINED DURING THE REFUELING OUT-  
AGE AND REFILLED WITH 2000 PPM BORATED WATER, THEN RECIRCULATED THROUGH THE BAST WITH  
THE TRANSFER PUMP ON LOW SPEED. RECIRCULATION FLOW THROUGH THE BIT FROM THE BORIC  
ACID STORAGE TANK WAS INCREASED BY PLACING THE TRANSFER PUMP IN FAST SPEED. AN 800

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
1	5	X	28	0	0	1	29	B	31
ACTIVITY		CONTENT		LP PHYSICS TEST		ROUTINE BORON SAMPLE			
7	8	9	10	11	12	13	14	15	16
RELEASED		OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE			
1	6	Z	33	Z	34	NA		NA	
7	8	9	10	11	12	13	14	15	16
PERSONNEL EXPOSURES		NUMBER		TYPE		DESCRIPTION			
1	7	0	0	0	37	Z	38	NA	
7	8	9	10	11	12	13	14	15	16
PERSONNEL INJURIES		NUMBER		DESCRIPTION					
1	8	0	0	0	40			NA	
7	8	9	10	11	12	13	14	15	16
LOSS OF OR DAMAGE TO FACILITY		TYPE		DESCRIPTION					
1	9	Z	42			NA		8009090508	
7	8	9	10	11	12	13	14	15	16
PUBLICITY		ISSUED		DESCRIPTION					
2	0	N	44			NA			
7	8	9	10	11	12	13	14	15	16
NRC USE ONLY									

NAME OF PREPARER H. M. CHADWELL

PHONE: (616) 465-5901

22

SUPPLEMENT TO LER 80-017/03L-0

SUPPLEMENT TO CAUSE DESCRIPTION

GAL. BATCH OF 25000 PPM CONCENTRATION WAS ADDED TO THE BAST AND RECIRCULATED THROUGH THE BIT. THE BIT CONCENTRATION WAS 20044 AFTER 3.3 HOURS. THE PROCEDURE FOR PLACING THE BIT IN SERVICE HAS BEEN CHANGED TO REQUIRE RECIRCULATION AT HIGH SPEED AFTER REFILLING THE TANK.

25