NRC FORM 366 (12-81)	U.S. NUCLEAR REGULATORY COMMISSION LICENSEE EVENT REPORT	APPROVED BY OMB 3150-0011 EXPIRES 4-30-82
CONTROL BLOCK:	(PLEASE PRINT OR TYPE ALL REC	
0 1 P A S E S 1 2 0 7 8 9 LICENSRE CODE 14	0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 LIGENSE NUMBER	1 1 1 4 57 CAT 58 5
CON'T 0 1 **EPORT 6 0 5 0 7 ** 60 61 00	0 0 3 8 7 7 0 0 9 1 0 8 2 8 0 CKET NUMBER 68 68 EVENT DATE 74 75	9 2 4 8 2 9 REPORT DATE 80
event Description and PROBAB	icality, it was identified that a poten	tial existed for
0 3 overload of the Class	IE electrical system due to concurrent	loading of Emer-
0 4 gency Service Water (ESW) pumps and either Residual Heat Rem	oval (RHR) or Core
0 5 Spray (CS) pumps duri	ng an intermediate size LOCA. This sit	uation was deter-
0 6 mined reportable per	Technical Specification 6.9.1.8.i. No	adverse consequences
0 7 resulted because the	condition was identified prior to start	up and controls were
o a applied to prevent re	CAUSE COMPONENT CODE SUBCODE 12 F 3 Z Z Z Z Z Z 4 Z 2 2 2 2 2 2 2 2 2 2 2 2	VALVE
17 REPORT 8 2 -	SEQUENTIAL OCCURRENCE REPORT TYPE O 1 2	REVISION NO. 31 32 RIME COMP. SUPPLIER Z 25 Z 9 9 9 43 44 47
	com inadequate evaluation of all potenti	
	on of a Reactor Vessel Low Pressure perm	
	mp start logic circuitry as an interim prrective action was taken to remove the	
1 4 the logic circuit.		
1 5 B 28 0 0 0 29	n/a D 30 Engineering	
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT O	n/a LOCATION OF	PRELEASE 36
7 B 9 10 11 PERSONNEL EXPOSURES NUMBER TYPE DESCRIP	110N (39) n/a	80
PERSONNEL INJURIES NUMBER DESCRIPTION (41)	n/a	*0
LOSS OF OR DAMAGE TO FACILITY (43) TYPE DESCRIPTION 1 9 Z (42)	n/a	60
PUBLICITY ISSUED DESCRIPTION 45	n/a	NRC USE ONLY
NAME OF PREPARER _		(717) 542-2181 X286
210040122 820924 DR ADDCK 05000387 PDR		

Licensee Event Report Attachment to LER 82-012/01T-0

An engineering review of integrated ESF system operation identified a situation where differences in the initiation signals supplied to Emergency Service Water (ESW) pumps and the low pressure ECCS pumps could result in loadings on the Class 1E electrical system outside of design limits.

The Core Spray (CS) and Residual Heat Removal (RHR) pumps receive initiation signals on low reactor vessel level and on high drywell pressure. In series with the high drywell pressure signal is a low reactor vessel pressure permissive. The ESW pumps receive a start signal upon diesel generator automatic actuation, with a time delay designed to provide ESW pump loading after the low pressure ECCS pumps. Since the diesel generators are started on a low reactor vessel level or high drywell pressure signal (no reactor vessel pressure permissive), these effectively become the ESW start signals.

An intermediate sized break can be postulated such that a high drywell pressure signal would be received quickly, but where reactor vessel pressure and level remain above these setpoints for some period of time. In such a case, the ESW pumps would receive a start signal initiating their delay timers, while no signal would be received by the ECCS pumps. Further, if the break was sized appropriately, the delay in receipt of a start signal for the ECCS pumps (receipt of a vessel low level or pressure signal) could result in either RHR or CS pumps starting concurrent with ESW pumps. Such a condition exceeds electrical system design limits.

Since the reactor vessel low pressure permissive was installed as a result of LOCA/False LOCA consideration for 2 unit operation, it was determined that appropriate corrective action was to remove this input to the CS and RHR pump start circuitry. This modification is intended as an interim measure, suitable until operation of Unit 2.

When a permanent modification is determined that will correct the problem for 2 Unit operation, a followup report will be filed.