NRC Porm (2-83)	i 366]	l			W -			LIC	ENSE	, E EVE		REF	PORT) (LER)			L	A		DOMB	DRY COM	•
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			le Poi	int	Uni	it 2													014	10	i or	013
TITLE (4)		•															_				-	
L			Scran					"D"				aı	nd SD	/ Hig	gh Lev	ve	1		150 (8)			
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	OPERATING MODE (9) THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) 5 20.402(b) 20.405(c) X 50.73(a)(2)(iv) 73.71(b)																					
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	On 11/5/86, Nine Hile Point Unit 2 experienced two scrams during initial fuel loading. The first resulted from a spike on IRM "D" caused by noise created when a fuel bundle was loaded adjacent to the detector. The second occurred 2 minutes and 38 seconds later due to a high level scram discharge volume trip which was not bypassed after the first scram. The second scram was not reported as specified by 10 CFR 50.72.																					
No transients or equipment failures were experienced during these scrams and a recommendation was given to resume core loading.																						
Corrective Actions Taken:																						
	(1) The IRM that might have been affected by adjacent bundle placement was hypassed as permitted by Tech. Spec. 3.3.1.																					
	(?) A training modification recommendation for licensed operators has been submitted to ensure that the Reactor Operator hypasses the SDV high level trip (as specified in operating procedure N2-OP-101C) even after a scram that occurs with the control rods already fully inserted and the SDV high level alarm has not yet core in.																					
	(3) Personnel responsible for 10 CFR 50.72 notification will be instructed to ensure each reportable event is reported.																					
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NRC Form 346A (9-83) k LICE	SEE EVENT REPORT		CLEAR REGULATORY COMMISSION PPROVED OMB NO. 3150-0104 (PIRES: 8/31/88				
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)		PAGE (3)		
			YEAR SEQUENTIAL NUMBER	NUMBER			
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TEXT IIf more space is required, use additional NRC	Form 366A's) (17)						

On 11/5/86, Nine Mile Point Unit Two experienced two scrams, the first at 12:41:15, the second at 12:43:54.

First Scram Event Description

The first scram occurred while initial core loading was in progress with the reactor head removed and all control rods fully inserted. The shorting links were removed per Technical Specification Section 3.10.7 and start up test procedure N2-SUT-3-OV "Fuel Load".

Removal of the shorting links provides for a full RPS scram (both channels) if any one neutron monitor (SRM, IRM or APRM) outputs a signal above the scram set point. The 135th fuel assembly was being installed adjacent to IRM "D" when that IRM experienced an output spike causing a full scram.

The IRM spike and subsequent scram was most probably caused by the high IRM gains required for initial fuel load (FSAR Table 14.2-209). These high gains amplified the noise created by bundle placement adjacent to the detector. This conclusion resulted from a review of the Control Room Post Trip Logs, the alarm print out and discussions with Operations, I&C, and General Electric personnel.

Second Scram Event Description

Two minutes and thirty eight seconds after the scram caused by the IRM "D" upscale trip, a second scram occurred due to a high level in the scram discharge instrument volume (SDIV). The reactor was in the same conditions as described above.

When the IRM scram occurred, the scram air header depressurized and both SDV vent valves and both SDV drain valves closed. In this condition only water leaking past the seals in the CRD exhausted to the SDV since the CRD's were all full in prior to the first scram signal.

When the NMPC licensed operator went to reset the RPS logic, sufficient water had not drained from the scram discharge volume (SDV) into the SDIV to activate a high level alarm. As a result, the NMPC licensed operator, with accurate knowledge of plant conditions, decided not to bypass the SDV high level trip. This action was not in accordance with the scram recovery procedure N2-OP-101C.

After the RPS logic was reset, both vent valves and one drain valve opened as the scram air header began to repressurize. The delay in opening the second drain valve was the result of a longer air header path to this valve. All valves did respond within the Technical Specifications requirements.

Computer logs showed that levels continued to rise in the SDIV. This happened because the scram air header had not repressurized enough to close the HCU scram outlet valves, allowing more water to fill the SDIV. The high level trip point was reached in the SDIV before the other drain valve opened, causing another full scram.

After the second full scram occurred, the SDV high level trip was properly bypassed and the scram reset. All vent and drain valves opened and the SDIV drained.

NRC FORM 366A

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LICENSEE EVE	INT REPORT (LER) TEXT CONTINU		3ULATORY COMMISSI 0M8 NO. 3150-0104 /88								
LILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)								
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Nine Mile Point Unit 2 T (If more space is required, use additional NRC Form 3554/s) (17		8 6 - 0 0 1 - 0 1	C 3 OF 0								
operator responsible for scrams to be a single eve	as a resultant of the initial making the 10 CFR 50.72 noti ent. In light of this, upon IV high level scram as a sepa	ification considered bo making his notificatio	th								
Assessment of Potential :	Safety Consequences For Both	Scrams									
	There are no other operating conditions for which the IRM gains are set to the maximum. Therefore, the first scram would not be expected to occur during other operating conditions.										
operation. A delayed sec trip would not result in	nigh level scram could occur cond scram from a failure to a significant transient. Th sition from the previous read	bypass the SDV high lenses the SDV high lenses is because the CRDs	vel								
severity of the transiend	credible component failures t t. The plant was in cold nor erted prior to the initial so	n-critical condition wi									
transients resulted from	s designed such that no adver this event. Upon satisfacto ation was given to resume fue	ory analysis of the scr	or am								
Corrective Action											
The IRM gains will short term, the I	rently set on the IRMs is onl I be properly adjusted during RM that might have been affect bypassed as permitted by Tec	power ascension. For ted by adjacent bundle	the								

- (2) A training modification recommendation for licensed operators has been submitted to ensure that the reactor operator will bypass the SDV high level trip (as specified in operating procedure N2-OP-101C), after a scram with the control rods already fully inserted, where a SDV high level trip may not be immediately present.
- (3) Personnel responsible for NRC notification under the provisions of 10 CFR 50 part 72 will>be instructed to ensure each reportable event is reported.

Identification of Components Refered to in this LER

Component	IEEE 803 EIIS Funct	IEEE 805 System ID
Source Range Monitor (SRM)	JI	IG
Intermediate Range Monitor (IRM)	JI	IG
Average Power Range Monitor (APRM)	JI	IG
Scram Discharge Volume (SDV)	COL	JC
Reactor Protection System (SRM)	Not App1	JC

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