

# Commonwealth Edison Company

ONE FIRST NATIONAL PLAZA \* CHICAGO, ILLINOIS

Address Reply to:

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Dresden Nuclear Power Station  
R.R. #1  
Morris, Illinois 60450  
Corrected June 29, 1970  
Original Date: June 26, 1970

Dr. Peter A. Morris, Director  
Division of Reactor Licensing  
U.S. Atomic Energy Commission  
Washington, D.C. 20545

**SUBJECT:** License DPR-19, Dresden Nuclear Power Station Unit 2, Section 6.60  
of the Technical Specifications.

Dear Dr. Morris:

This is to report a condition relating to the operation of the station in which control rod drives exceeded the 7.00 Second maximum insertion time as required for 90% insertion as required by section 3.3.C.2 of the Technical Specifications.

Review of scram timing traces taken on the 29 monitored drives during a scram on May 28, 1970 revealed that one drive (in addition to D-3 reported in our letter to you of May 14, 1970) exceeded 5.30 seconds for 90% insertion, and several others showed an increase in scram times to values less than 5.30 seconds. As a result of this information, additional scram tests were performed in the power operating condition on all of the remaining drives between May 28 and 31, 1970. These subsequent tests showed that additional drives exceeded 5.30 seconds. In keeping with our letter to you dated December 15, 1969, signed by Peter S. Van Nort we have tabulated all drives exceeding 3.6 seconds for 90% insertion. The average scram time to 90% insertion for all operable drives continues to be between 2.4 and 3.1 seconds.

Date		Scram 5/28/70	Individual Drive Tests 5/28-31/70				Scram 6/2/70	Scram 6/3/70	Individual Drive tests 6/4/70
Control Rod Drive			#1	#2	#3	#4			#5
D-3*	14-11	9.98	11.35	8.06			**	11.23	
H-8	30-31		35.57						
J-7	34- /		16.75	22.25	14.9	3.59			
G-13	26-51		11.77						
F-1	22-03		7.97	5.96		5.56			5.56
D-2	14-07		6.91			4.90			4.92
B-4	06-15		6.72	6.85		5.87			5.89
J-8*	34-31	5.28	5.56				3.51	3.14	3.59
J-9	34-35		5.01						
H-10	30-39		4.21						
H-1	30-02		4.18						
C-6	10-23		3.88						
C-8*	10-31	6.71							
G-6*	26-23	4.73					4.13	**	
							3.26	3.25	

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NOTE: Individual Drive Tests - #1 All drives which were not continuously monitored were individually screamed. #2 and #3 - Selected drives were retested for scram time. #4 was performed after a period of drive insertion to position 00, in order to "soak" the inner screen at operating temperature. #5 was performed after a period of full control rod withdrawal and with test equipment connected to check for any obstructions in the scram discharge lines. Tests showed that no such obstructions existed.

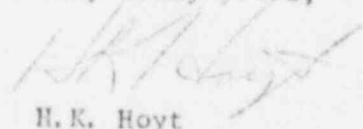
\* Drives which are among the 29 monitored drives exhibiting greater than 3.6 seconds 90% insertion times.

\*\* Scram trace not available on these drives.

Operation of the reactor subsequent to finding control rod drives in excess of 7.0 seconds was conducted in conformance to the Technical Specifications.

Further investigation of drive and drive screen conditions have been initiated following the shutdown of June 5, 1970. Selected drives are being removed and disassembled for inspection. A review of the problem will be conducted and future operation will be evaluated after complete review of the data and information obtained. The situation to date has been reviewed by the Station Review Board.

Very truly yours,

  
H.K. Hoyt  
Superintendent

HKH:glw