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AUTH. NAME: HUNTER, R.S. AUTHOR AFFILIATION: Indiana & Michigan Electric Co.
 RECIP. NAME: DENTON, H.R. RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation, Director

SUBJECT: List of outages of boron injection, accumulations & refueling
 water storage tank for Jan 1976 - Dec 1980, per NUREG-0737,
 Item II.K.3.17 & 820826 informal submittal.

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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies growing on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

INDIANA & MICHIGAN ELECTRIC COMPANY

P. O. BOX 18
BOWLING GREEN STATION
NEW YORK, N. Y. 10004

January 10, 1983
AEP:NRC:0398I

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
NUREG-0737, ITEM II.K.3.17

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulatory
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Denton:

This letter and its attachment documents our informal submittal of August 26, 1982 to your Consultant regarding NUREG-0737, Item II.K.3.17. The attachment lists the outages of the Boron Injection Tank, Accumulators and Refueling Water Storage Tank for the period of January 1, 1976 through December 31, 1980 for both Unit Nos. 1 and 2. This letter completes the submittal of information for the Cook Plant required for the subject Item.

This document has been prepared following Corporate Procedures which incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,



R. S. Hunter
Vice President

cc: John E. Dolan - Columbus
M. P. Alexich
R. W. Jurgensen
W. G. Smith, Jr. - Bridgman
R. C. Callen
G. Charnoff
NRC Resident Inspector at Cook Plant - Bridgman

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Attachment

Listed below are the outages for the Boron Injection Tank, Accumulators and Refueling Water Storage Tank for the period of January 1, 1976 through December 31, 1980. There were no outages found for the RWST.

<u>DATE</u>	<u>DURATION</u>	<u>EQUIPMENT</u>	<u>REASON</u>
May 17, 1976	3 hr. 45 min.	Unit 1 Boron Injection Tank	Low Boron Concentration
September 8, 1977	5 hr. 15 min.	Unit 1 Boron Injection Tank	Low Boron Concentration
June 12, 1978	1 hr. 4 min.	Unit 2 Boron Injection Tank	Low Boron Concentration
July 14, 1978	7 hr. 28 min.	Unit 1 BIT Outlet Piping Heat Trace	Low Temperature
June 2, 1978	77 Days*	Safety Injection Flowpath Throttle Valves	Incorrectly Set
September 23, 1978	1 hr. 45 min.	Unit 1 Accumulator #1	Boron Concentration Low
October 23, 1978	0 hr. 45 min.	Unit 2 Boron Injection Tank	Boron Concentration Low
July 2, 1979	1 hr. 44 min.	Unit 2 Boron Injection Tank	Boron Concentration Low
August 4, 1980	1 hr. 33 min.	Unit 1 Boron Injection Tank	Boron Concentration Low
July 23, 1980	0 hr. 10 min.	Unit 2 Accumulator	Pressure High

*Subsequent analysis by AEPSC showed that the flow available was sufficient for the Safety Analysis (LER 315/78-050; Condition Report Number 1-8-78-450).

