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 : 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 HUNTER, R.S. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Discusses plant-specific evaluation of relief & safety valves & related discharge piping analysis per 820709 ltr. Teledyne analysis revealed that discharge piping sys will be overloaded & supports stressed beyond allowable limits.

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1. *Chlorophyll a* and *Chlorophyll b* contents were determined by spectrophotometry using the method of Lichtenthaler and Whistler (1987). The total chlorophyll content was calculated using the following formula:

(continued)

2. 1. 1991

1.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

[illegible][illegible][illegible]

INDIANA & MICHIGAN ELECTRIC COMPANY

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May 27, 1983
AEP:NRC:0585F

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.D.1
PWR RELIEF AND SAFETY VALVE TEST PROGRAM

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

Reference: (1) Letter No. AEP:NRC:0585C dated July 9, 1982
(2) Letter No. AEP:NRC:0585E dated February 25, 1983
(3) Letter from Mr. S. A. Varga, NRC dated March 14, 1983

Dear Mr. Denton:

This letter concerns the plant specific evaluation of the Relief and Safety Valves and the related discharge piping analysis for the Donald C. Cook Nuclear Plant detailed in Reference (1). Teledyne Engineering Services (TES) is performing the analyses of the as-built piping system using the thermal-hydraulic code RELAP-5/MOD 1. While we have not yet received the final report, early notification from TES indicates that during the loop seal water discharge, the discharge piping system will be overloaded and the piping/supports will be stressed beyond the allowable stress limits. To eliminate this concern AEPSC proposes to drain the water in the Safety Valve loop seals in both Units at their next respective refueling outages. The preliminary analysis show that the thermal-hydraulic forces are substantially lower for the case when there is no water in the loop seal. The qualification of the as-built piping system will be performed without the loop seal water and, if necessary, the supports will be modified. The method to perform the seal water drainage is currently being evaluated.

In reference (2) we committed to submit the plant Specific Evaluation Report for the Donald C. Cook Nuclear Plant by July 1, 1983.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the statistical analysis performed.

3. The third part of the document presents the results of the study. It includes a series of tables and graphs that illustrate the findings of the research.

4. The fourth part of the document discusses the implications of the findings and provides recommendations for future research. It also includes a conclusion that summarizes the main points of the study.

5. The fifth part of the document is a detailed appendix that provides additional information and data. It includes a list of references, a glossary of terms, and a list of abbreviations. The appendix also contains a series of tables and graphs that provide further details on the data presented in the main text.

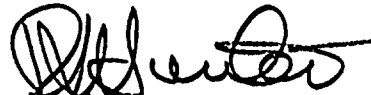
6. The sixth part of the document is a list of references that includes all the sources cited in the study. It is organized alphabetically by author's name.

7. The seventh part of the document is a list of abbreviations that are used throughout the study. It is organized alphabetically by the abbreviation.

This date was incorporated into the confirmatory order attached to Reference (3). We are hereby requesting an extension to the submittal date of the Plant Specific Evaluation of the Relief and Safety Valves and associated piping system from July 1, 1983, to September 15, 1983, to perform the additional work which we now anticipate as being required to qualify the discharge piping system.

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

/md

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

THE UNITED STATES OF AMERICA
DO hereby certify that
[Name] is a citizen of the United States of America
and is entitled to the rights and privileges of citizenship.

WITNESSETH my hand and seal of office this [Date] day of [Month], 19[Year].

Attest:

[Signature]
[Title]

[Signature]
[Title]