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March 26, 1979

Mr. Dennis L. Ziemann
Chief
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Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington DC 20555

Subject: Systematic Evaluation Program-Dresden Units 1 & 2

Dear Mr. Ziemann:

As part of our efforts to support the NRC in the Systematic Evaluation Program we have gathered and evaluated information on many of the topics. We have not completed our review of all topics however the following list of references may be useful to the staff in their review.

Topic

Reference

II-1.A

1. "Final Safety Analysis Report, Dresden Units 2 and 3," Commonwealth Edison Company, revised March 1968
2. "Final Environmental Report, Dresden Units 2 and 3," Commonwealth Edison Company, November 1973

II-1.B

1. Dresden Unit 2 FSAR
2. Dresden Unit 2 SER for PSAR and FSAR
3. Dresden Unit 2 DES and FES
4. Supplemental Environmental Report, Dresden Unit 3

II-2D

1. Inspection Report, USNRC Office of Inspection and Enforcement, Report No. 50-OLC/77-11
2. Inspection Report, USNRC Office of Inspection and Enforcement, Report No. 50-OLC/78-19
3. Dresden Unit 2 10 CFR 50 Appendix I Report, Amendment 1, ALARA Effluents (Docket No. 50-OLC-630).

II-3.B

1. Environmental Factors at Proposed Site of Dresden Generating Station, June 15, 1965
2. Final Records Summary Report
3. Review of Dresden Station Facilities to Resist Flooding Capabilities, October 13, 1972

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II-3C

4. Flooding of Critical Equipment at Dresden Units 1, 2, and 3, August 23, 1973
1. Final Safety Analysis Report, Dresden Units 2 and 3
2. Draft Environmental Statement, Dresden Nuclear Power Station Units 2 and 3, June 1973
3. Final Environmental Statement, Dresden Nuclear Power Station Units 2 and 3, November 1973
4. Dresden Generating Station Cooling Water Intake Impact Report, February 28, 1977
5. Report of Petitioner Commonwealth Edison Company in Support of Petition for Determination under Rule 203(i)(5), April 4, 1978
6. Authorization to Discharge under the National Pollutant Discharge Elimination System, Permit No. IL OOC2224, December 1976
7. Letter, from M.S. Turbak (CECo) to D.L. Ziemann (NRC) dated April 4, 1977, "Information Concerning Lake Blowdown, NRC Docket Nos. 50249" April 4, 1977
8. Environmental Technical Specifications, Units 1, 2 and 3, Dresden Nuclear Power Station, August 20, 1976
9. Technical Specifications, Appendix A, Dresden Unit 2
10. Safety Evaluation Report, Dresden Unit 2
11. Safety Evaluation Report, Dresden Unit 3

II-4.B

1. Dresden Unit 1, Preliminary Hazards Summary Report, September, 1957.
2. Dresden Unit 2, Final Safety Analysis Report.
3. "Seismic Analysis of Dresden Units 2 and 3", John Blume and Associates, November 1965, March 1966.

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1. Dresden Unit 1 Preliminary Hazards Summary Report, September 1957.
2. Dresden Unit 2 Final Safety Analysis Report.

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3. Dresden Unit 2 Nuclear Plant - Recommended Earthquake Criteria, John Blume & Associates, November 1965.
- II-4.E
1. Amendments 9 and 10 to application for Construction Permits and Operating Licenses for Dresden 2 and 3 filed under AEC Dockets 50-237 and 50-249.
- II-4.F
2. Dresden Nuclear Power Station Units 2 and 3, Safety Analysis Report, Vol. 2, pp. 12.1-9 - 12.1-11.
- III-3.A
1. Response to AEC Request for Additional Information Concerning Protection Against Flooding of Critical Equipment for Dresden 1, dated August, 1973. Docket No. 50010-183.
 2. Response to AEC Request for Additional Information Concerning Protection Against Flooding of Critical Equipment for Dresden 1, 2, and 3, August 1973, Docket No. 50237-366.
- III-3.B
1. GEAP - 1044 "Preliminary Hazards Summary Report for the Dresden, Nuclear Power Station," Revised June, 1957.
 2. "Final Safety Analysis Report, Dresden Units 2 and 3, "Commonwealth Edison Company"
- III-4.C
1. Dresden Unit 1, Final Hazards Summary Enclosure Section GEAP-0878, January 24, 1957, pgs. 16-17 and 56-58.
 2. Dresden Unit 1, Preliminary Hazards Summary GEAP-1044, Revised June 24, 1957, pgs. 154-155.
- III-5.B
1. Dresden Special Report No. 38, "Evaluation of Steam and Feedwater Pipe Breaks Outside Containment, Dresden Unit 1, " Volumes I through IV, Report No. SCM-01-04, Revision 1, December 26, 1974 (a report of the 1973 evaluation to the Giambusso criteria; these criteria are an attachment to Standard Review Plan, Section 3.6.2)
 2. Dresden Special Report No. 37, "Analysis of Effects of Pipe Break Outside the Primary Containment, Dresden Units 2 and 3," Revision 1, February 1975, Docket No. 5000237-742 (a report of the 1973 evaluation to the Giambusso criteria; these criteria are an attachment to Standard Review Plan, Section 3.6.2).

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1. Dresden Unit 2 Operating License Technical Specification, Appendix A, Sections 3.7 and 4.7

III-7.C

1. "Final Hazards Summary, Dresden Unit 1, "Section III B. January 1957.

III-7.D

1. Dresden Unit 1 Operating License Technical Specification Appendix A Section 3.7 and 4.7

2. Dresden Unit 2 Technical Specification Section 4.7.

III-10.3

1. Dresden Unit 1 Final Hazards Summary Report.
2. Dresden Unit 2 Final Hazards Summary Report

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1. Mechanical criteria: Final Hazards Summary Report, Revised April 1, 1970
2. Electrical criteria: Letter from M.S. Turbak to Victor Stello, February 27, 1978 (S/R List)
3. Electrical criteria: Letter from G.J. Pliml to Dennis L. Ziemann, September 30, 1976 (qualification of electrical equipment)
4. Electrical criteria: Letter from B.B. Stephenson to J.G. Keppler, June 30, 1976 (qualification of electrical equipment)
5. Dresden Unit 1 Systematic Evaluation Program, letter from M.S. Turbak, to Victor Stello, February 27, 1978, NRC Docket No. 50-10
6. Dresden Unit 1 Containment Spray System, letter from G.J. Pliml to Dennis L. Ziemann, September 30, 1976, NRC Docket No. 50-10
7. Supplemental letter to Report 50-10/75-2, Engineering Evaluation of Dresden Unit 1 Equipment Rating, letter from B.B. Stephenson to James G. Keppler, June 30, 1975, NRC Docket No. 50-10
8. P&IDs, Dresden Unit 1
9. Dresden Nuclear Power Station Unit 1, Equipment Manuals, Vol. 1, GEN-59015

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10. Evaluation of Steam and Feedwater Pipe Rupture Outside Containment, Dresden Station Unit 1, Vol. III, February 19, 1974, Nuclear Services Corporation, Report No. CCM-01-04
 11. Mechanical equipment criteria and environmental conditions: Final Safety Analyses Report, Dresden Unit 2, March 22, 1968
 12. Electrical equipment criteria: Letter from M.S. Turbak to Victor Stello, February 24, 1978, Design Specifications, S/R List and Location
 13. Piping and Instrumentation diagrams, Dresden Unit 2
 14. Functional control diagrams, Dresden Unit 2
 15. Electrical safety-related list, letter from M.S. Turbak to Victor Stello, February 24, 1978.
 16. General Electric EWR Training Manual, Vol. 3, Table 1, Rev. 6, April 1975
 17. Special Report No. 37. Rev. 1, J. S. Abel to Karl R. Goller, February 18, 1975, Docket Nos. 50-237 and 50-249
 18. Initial Reference Design, Vol. II, Rev. 4, GE Reg. No. 391-23205, April 2, 1965. (All references on Table - 2 listed as 16-X, came from this reference - 16 is the section number and X is the page number.
- IV-1.1
1. Letter from Mr. R. Bolger, CECo to Mr. Edison Case of NRC, dated, August 3, 1977
 2. Letter from Mr. Mike Turbak, CECo to Mr. D. Davis of NRC, dated November 8, 1977 on Dresden #1 Plant Transient Analysis
 3. Plant Transient Analysis for the Dresden 1 Reactor-Ezion Nuclear Company, October 1977 (Report #NF-77-46)
 4. Letter, (proposed change to technical specification) from R.L. Bolger (CECo) to E.C. Busche (NRC), dated September 2, 1976, Docket No. 50237-1150
 5. NEDC-10722A, Class 1, "Core Flow Distribution in a GE EWR as Measured in Quad Cities Unit 1; "August 1976

6. NEDO-10299A, Class 1, "Core Flow Distribution in a Modern BWR as Measured in Monticello, "Oct. 1976
7. NEDO-21093 "License Amendment for Single Loop Operation, Dresden Units 2 and 3 and Quad Cities Units 1 and 2" (General Electric Company Report)

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1. "Dresden Units 2 and 3, Safety Analysis Report," November 17, 1967
2. "Safety Analysis Report, " Amendments 1 through 17
3. "Dresden Unit 2 Technical Specifications"
4. "Dresden Operating Abnormal Procedures, " Rev. C, May 1975
5. Nuclear Regulatory Commission IE Circular No. 77-07, April 15, 1977

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1. Dresden 1 Technical Specifications and Bases, Section 3.6, Page 65
2. Dresden Unit 2 Technical Specifications and Bases, Section 3.6, Page 88 and Figure 4.6.1, Page 94

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1. Dresden Unit 1 Final Hazards Summary Report
2. APED 3988, "Dresden Nuclear Power Station Reactor Vessel Steel Surveillance Program"
3. Dresden Unit 1 Equipment Manuals, Volume 2
4. Letter, from D.K. Davis (NRC) to R.L. Bolger (CECo), dated May 20, 1977
5. Letter, from M.S. Turbak (CECo) to D.K. Davis (NRC), dated October 18, 1977
6. Letter, from M.S. Turbak (CECo) to D.K. Davis (NRC) dated December 23, 1978
7. Dresden Units 2 and 3 Final Safety Analysis Report
8. NEDO 10115, "Mechanical Properties Surveillance of General Electric BWR Vessels"
9. Letter, from M.S. Turbak (CECo) to D.K. Davis (NRC) dated August 26, 1977
10. Letter, from M.S. Turbak (CECo) to D.K. Davis (NRC) dated February 15, 1978

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1. Letter, from R.C. DeYoung to E.G. Wagensdorf, Report on Reactor Coolant Pump Overspeed During a LOCA, August 6, 1973
2. Dresden Units 2 and 3 Safety Analysis Report, Section 4.3
3. Dresden Units 2 and 3 Reactor Equipment Manual,

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1. Dresden Unit 1 FESR, Section D7, Steam Supply System, Page 42.
2. Dresden Unit 1 FESR, Section 32 (Process), Page 7.
3. Dresden Unit 1 FESR, Section D15(b), Pipes and Ducts, Page 24.
4. Dresden Unit 1, Equipment Manual, Volume 2, Chapter 1 (Steam Generation System).
5. Dresden Unit 1 FESR, Section J, Page 161, Table J-2.
6. Dresden Unit 1, Technical Specifications, Table 4.5.1.

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1. Dresden Unit 1 ECCS Design Report, "NRC Docket No. 50-10, October 17, 1975

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1. Final Safety Analysis Report, "Volumes 1 and 2
2. "Safety Evaluation Report by the Division of Reactor Licensing in the Matter of Commonwealth Edison Company, Dresden Nuclear Power Station Unit 2, Docket No. 50237-87
3. Appendix A to Operating License DPP-19, "Technical Specifications and Bases for Dresden Nuclear Power Station Unit 2"

V-17.A.1

1. Final Hazards Analysis Report-pages 142 through 143
2. Supplements A through E of changes 17 to DPR-2, Docket#50C10, Dresden Unit 1. Oct. 10, 1966
3. Final Safety Analysis Report-Dresden Units 2 and 3 Figure 3.6.2 - SWR Internal Configuration with Wet Pump.
4. NRC-24046, Pass 1, Aug. 1977 - Loss - of - Coolant Accident Analysis Report for Dresden Units 2, 3 and Two Other Units in 2 Nuclear Power Stations, West Section.

VI-7.A.2

1. ECCS Design Report - Rev. 1, March, 1978, Dresden 1, Docket #50010.
2. SAFE - System Analysis for Standby Core Cooling Equipment
3. SAFEO4 Code - ECCS Evaluation Code for EWR LOCA-GE
4. LOCA Analysis Report for Dresden Units 2 and 3 and Quad Cities Units 1, 2 (Lead Plant) NEDC-24046, Class I, August 1977.
5. SAFE - System Analysis for Standby Core Cooling Equipment
6. SAFEO4 Code - ECCS Evaluation Code for EWR LOCA-GE

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1. Technical Specifications and Bases, Appendix A to Operating License DPR-19, for Dresden Nuclear Power Station Unit 2, Section 4.5 (A-E), "Surveillance Requirement, Core and Containment Cooling Systems"
2. Drawing No. 12E2430, "Schematic Diagram, Core Spray System 1 and 2, "Revision 1A, dated Feb. 16, 1977
3. Drawing No. 12E2527, "Schematic Diagram, High Pressure Cooling Injection, "Revision 1E, dated September 3, 1976
4. Drawing No. 12E2437, "Schematic Control Diagram, LPCI-Containment Cooling System, " Revision W, dated September 3, 1976
5. Drawing No. 12E2437A, "Schematic Control Diagram, LPCI-Containment Cooling System, " Revision V, dated January 14, 1977

VI-7.A.4

1. Letter, from M.S. Turbek (OEEC) to D.L. Mearns (NERC), April 12, 1977
2. Letter, from G.A. Abrell (OEEC) to D.L. Mearns (NERC), November 17, 1976
3. Docket #50010-438, page 6.3.2, Oct. 17, 1975
4. Dresden Unit 1 ECCS Design Report, Rev. 1, March 1978
5. Dresden Unit 1 Technical Specifications, Supplement A to Proposed change 17, September 17, 1970

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| VI-7.D | <ol style="list-style-type: none"> 1. Letter, from B.B. Stephenson (CECo) to J.G. Keppler (NRC), dated June 3, 1975, "Engineering Evaluation of Dresden Unit 1 Equipment Rating, " NRC Docket No. 50010-410 2. Dresden Unit 1, Preliminary Hazards Summary Report |
| VI-7.E | <ol style="list-style-type: none"> 1. "Final Safety Analysis Report, Dresden Unit 2 and 3," Volume I |
| VI-7.F | <ol style="list-style-type: none"> 1. Dresden Station Unit 1, "ECCS Design Report," Revision 1, dated March 1978, Section 6. 1a. Figure 6.3-1, "High Pressure Coolant Injection System." 1b. Figure 6.3-5, "Core Spray System." 2. Dresden Unit 2 Safety Analysis Report Section 2.1, Emergency Core Cooling System Design Basis Revision 3-22-68. 3. M-27, "Diagram of Core Spray Piping; "Revision BB, 5-7-75. 4. M-29, "Diagram of L.P. Coolant Injection Piping; "Revision GG, 5-25-75. 5. M-51, Diagram of H.P. Coolant Injection Piping. Revision DD, 4-6-76 |
| VI-8 | <ol style="list-style-type: none"> 1. Dresden Preliminary Hazards Report, Amendment No. 3 Table C-11 |

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2. Dresden Unit 1 Final Hazards Summary Report, Section D, Description of Plant, Section 5 (Shielding Design Criteria), page 27
3. Dresden Unit 1 Final Hazards Summary Report, Figure, D-35, Control Room Layout
4. Dresden Units 2 and 3 Final Safety Analysis Report, Amendment No. 9, Question III.K-1
5. Dresden Units 2 and 3, Final Safety Analysis Report, Volume I, Section 1, Introduction and Summary, page 1.3-3
6. Dresden Station Administrative Procedures, DGA-14, Rev. 0, May 1975
7. Dresden Unit 1 Drawing No. M-273, Diagram of Control Room Office and Drywall Air Conditioning
8. Dresden Units 2 and 3, Final Safety Analysis Report, Volume I, Section 1, Introduction of Units 1, 2 and 3, page 1.5-4
9. Dresden Station Units 2 and 3 Special Report No.37, Rev. 1, Section 11.0, Habitability of the Control Room
10. Dresden Station Special Report No. 38, Evaluation of Steam and Feedwater Pipe Breaks Outside Containment, Volumes II and III, Dresden Unit 1
11. Emergency Plan Implementing Procedure, EPIP 2.6.7, Classification of an Incident Involving Hazardous Materials.
12. DQA 5750-4, Rev. 0, Noxious Fumes in Control Room, January 1978

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2. Test Data per procedure DTS-250-1, 1975-1977
3. Dresden Units 2 and 3 Technical Specifications, Appendix A To Operating License, DFR-19, Section 4.7

VI-10.B

1. Dresden Unit 1, Hazards Summary Report
2. Dresden Unit 1, Single Line Diagram for Electrical System, Drawing 12E-16, Rev. 01, 10-9-77

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3. ECCS Design Report, Rev. 1, March 1978
4. Dresden Unit 2 Final Safety Analysis Report 3-22-68
5. Reference Drawings
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 - b. Drawing 12E2322 125V DC Distribution, Rev. J of 11-10-77
 - c. Drawing 12E2321 250V DC Motor Control Centers, Rev. EI of 7-14-76
 - d. Drawing 12E2325 Key Diagram 120 and 120/240V AC Distribution, Essential Instrument and Reactor Protection Buses, Rev. N, of 7-14-76
 - e. Drawing 12E2326A Key Diagram 120/208V, 3Ø and 120/240V Distribution Panels at 480V MCC's Rev. K of 11-16-73
 - f. Drawing 12E2345 Schematic Control Diagram 4160V Bus 23-1 Standby Diesel 2/3 Feed Bkr. Rev. M of 7-14-76
 - g. Drawing 12E2346 Schematic Control Diagram 4160V Bus 24-1 Standby Diesel 2 Feed and 34-1 Tie Breaker, Rev. K of 7-14-76
 - h. Drawing 12E2349 Schematic Control Diagram 480V Trans. 28 and 29, Buses 28 and 29 Main Breakers, Rev. R of 12-9-76

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2. Dresden Unit 1 Technical Specifications, Section 3.1.A, "Reactor Protection System, Setpoints, Tables 3.1.1.a, b and c."
3. Dresden Unit 2 Technical Specifications, Section 2.2.A, "Reactor Coolant System, Reactor Coolant High Pressure Scram"
4. Dresden Unit 2 Technical Specifications, Sections 3.1, "Reactor Protection System, Setpoints, Table 3.1.1"

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1. "Dresden Unit 1, ECCS Design Report, Revision 1, March 1978, Figure 6.3-2. "Control Logic Diagram for HPCI System"

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 3. Drawing 12E1001-P4, "Schematic Diagram, Initiation Circuit 2, Emergency Core Cooling," Revision D, January 16, 1973
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 5. Final Hazards Summary Report, Section 12.a.ii, "Diesel Generating System Operation, "Revised April 1, 1970
 6. Dresden Unit 1 Technical Specification, Section 6.6.A.1, "Reporting Requirements; Routine Reports - Startup Report," March 1, 1973
 7. Drawing No. 12E2527, "High Pressure Core Injection Sensors and Auxiliary Relays, "Revision AE, September 3, 1976
 8. Drawing 12E2427, Revision W, September 3, 1976; 12E2437A, Revision B, September 3, 1976; 12E2438, Revision Y, September 3, 1976; and 12E2438A, Revision W, September 3, 1976; all entitled "Low Pressure Coolant Injection System.
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 2. Drawing 12E-18. Dresden Unit 1, Single Line Diagram of Electrical System, Rev. C1, October 3, 1977

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3. Drawing 12E-1002, Dresden Unit 1, Key Diagram 480 V MCC's 5A-2 and 6A-2, Rev. C, January 16, 1973
4. Drawing 12E-1001, Dresden Unit 1, Schematic Diagram, Pump CS-1C, Emergency Core Cooling System, Rev. C, March 17, 1975, P. 7-8
5. Drawing 12E-1009, Dresden Unit 1, Wiring Diagram, 480 V MCC 5A-2, Rev. L, February 15, 1977
6. Drawing 12E-1012, Dresden Unit 1, Wiring Diagram, 480 V MCC 6A-2, Rev. K, February 15, 1977
7. Dresden Unit 2, Final Safety Analysis Report
8. Drawing 12E-2318, Dresden Unit 2, Key Diagram, Reactor Building, 480 V MCC 28-1, Rev. N, July 26, 1977
9. Drawing 12E-2320, Dresden Unit 2, Key Diagram, Reactor Building, 480 V MCC 29-4, Rev. Q, May 2, 1977
10. Drawing 12E-2328, Dresden Unit 2, Single Line Diagram, Emergency Power System, Rev. B, July 14, 1976
11. Drawing 12E-2349, Dresden Unit 2, Schematic Control Diagram, 480 V Bus 28 and 29 Main Breakers, Rev. R, December 9, 1976
12. Drawing 12E-2374, Dresden Unit 2, Schematic Control Diagram, 480 V Miscellaneous Auxiliaries Part 2, Rev. L, December 9, 1976.

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5. Safety Analysis Report (3-22-68), Chapter 8

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2. Dresden Station Special Report No. 43, submitted by letter, from G.A. Abrell to B.C. Rusche, April 23, 1976
1. ECCS Design Report, Revision 1, March 1978, Submitted to USNRC with a letter dated March 14, 1978
2. Equipment Manual, Volume 4, "Auxiliary Services," Chapters I and III
3. Dresden Unit 1, Core Cooling, revised September 1970, submitted by CECO to AEC with a letter dated September 17, 1970, Subject: Supplement A to Proposed Change No. 17 Operating License DPR. 2 as Amended
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 5. Dresden Hazards Summary Report, Amendment 2, August 25, 1958
 6. Dresden Hazards Summary Report, Amendment 3, December 29, 1958
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4. GE BWR Reload-3 Licensing Submittal for Dresden Unit 2, NEDO-24034, Class I, June 1977

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2. Dresden Unit 1 Final Hazards Summary Report, Part II.C.6 and Part II.D.3
3. Dresden Unit 2 Final Safety Analysis Report, Section 1.3.3

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2. Dresden Unit 1 ECCS Design Report, Revision 1, March 1978
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Yours very truly,

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