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IN THE MATTER OF
Alabama Power Company
(Joseph M. Farley Nuclear Plant, Units 1 and 2)
Docket Nos. 50-358-CivP; 50-364-CivP
ASLBP No. 91-626-02-CivP

Dear Administrative Judges:

Please find enclosed Alabama Power Company's updated list of exhibits in the above-styled enforcement action.

Respectfully yours,

James H. Miller, III

COUNSEL FOR ALABAMA POWER COMPANY

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Enclosure

cc: Certificate of Service

7503


BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

Office of Commission Appellate
Adjudication
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

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James H. Miller, III
Counsel for Alabama Power Company

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LIST OF APCO EXHIBITS
(Cross-referenced with corresponding staff exhibits)

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1. Agenda, 8/26-28/87, regarding EQ seminar at Sandia
APCO exhibit received into evidence, p. 947
2. 4. Generic Letter to All Power Reactor Licensees and Applicants from Frank J. Miraglia -
NRC, dated 04/07/88, regarding Modified Enforcement Policy Relating to 10 CFR 50.49,
"Environmental Qualification of Electrical Equipment Important to Safety for Nuclear Power
Plants" (Generic Letter 88-07); List of Recently Issued Generic Letters attached
Staff Exhibit received into evidence, p. 304
3. 04/13/78 Petition for Emergency and Remedial Action; CLI-78-6; 7 NRC 400, 420
APCO exhibit received into evidence, p. 947
4. IE Circular 78-08 to F. L. Clayton, Jr. - APCo from James P. O'Reilly - NRC, dated 05/31/78,
regarding Environmental Qualification of Safety-Related Electrical Equipment of Nuclear
Power Plants; List of I.E. Circulars Issued in 1978 attached
APCO exhibit received into evidence, p. 947
5. 10/11/78 letter to James P. O'Reilly transmitting Farley response to IE Circular 78-08:
Qualification of Electrical Terminal Blocks; Unavailability of Test Report Due to Terminal
Blocks Inside Containment Associates with Containment Isolation Valves, Wide Range and
Narrow Range Temperature Monitoring, and Power Operated Relief Valves
APCO exhibit received into evidence, p. 947
6. Letter to F. L. Clayton, Jr. - Alabama Power Co. from James P. O'Reilly dated 02/08/79
regarding I.E. Bulletin No. 79-01: Environmental Qualification of Class IE Equipment;
attachments: 1) IE Bulletin No. 79-01 2) List of IE Bulletins Issued in the Past 12 Months
3) List of SEP Plants.
APCO exhibit received into evidence, p. 947
7. 27. Bulletin to F. L. Clayton, Jr. - APCo from James P. O'Reilly - NRC, dated 06/06/79 regarding
Supplement I.E. Bulletin 79-01A; attachments: 1) I.E. Bulletin No. 79-01A 2) List of I.E.
Bulletins Issued in the Past 12 Months 3) List of SEP Plants
Staff exhibit received into evidence, p. 889
8. Bulletin to F. L. Clayton, Jr. - APCo from James P. O'Reilly - NRC, dated 01/17/80
transmitting I.E. Bulletin No. 79-01B Regarding Environmental Qualification of Class I.E.
Equipment; Enclosures dated 01/14/80
APCO exhibit received into evidence, p. 1194
9. CLI-80-21 dated 05/27/80
APCO exhibit received into evidence, p. 947

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10. Memo to Z. R. Rosztoczy from Frank Ashe, Joel Paige, William Boothe, and Marilee Slosson, dated 05/27/81, transmitting Trip Report - Audit of Alabama Power Company's Test Data and/or Documentation Concerning Environmental Qualification of Electrical Equipment Per NUREG-0588 for Farley 2 Nuclear Station
APCO exhibit received into evidence, p. 947
11. Letter to R. F. McDonald - APCo from C. E. Murphy - NRC dated 01/15/81 transmitting Report Nos. 50-348/80-38 and 50-364/80-49; Special Inspection Conducted By T. D. Gibbons on 12/02/80 to 12/05/80
APCO exhibit received into evidence, p. 947
12. Technical Evaluation Report entitled Environmental Qualification of Safety Related Electrical Equipment IEB 79-01B Farley Unit No. 1 prepared by N. Merriweather on 12/10/80
APCO exhibit received into evidence, p. 947
13. Letter to F. L. Clayton, Jr. - APCo from Thomas M. Novak - NRC dated 02/13/81 regarding Preliminary Results of NRC Review of EQ's of Safety-Related Electrical Equipment at Farley Plant, Unit No. 1; attachment: Environmental Qualification Report
APCO exhibit received into evidence, p. 947
14. Letter to F. L. Clayton, Jr. - APCo from Steven A. Varga - NRC dated 05/21/81 transmitting NRC Safety Evaluation for the Environmental Qualification of Safety Related Electrical Equipment at Farley Unit No. 1; attachments: Safety Evaluation Report and Technical Evaluation Report dated 11/14/80
APCO exhibit received into evidence, p. 947
15. March 1981 Safety Evaluation Report - Unit 2, Docket No. 50-364, APCo, Supplement No. 6 to NUREG-75/034
APCO exhibit received into evidence, p. 947
16. 01/14/83 Technical Evaluation Report: Review of Licensees' Resolution of Outstanding Issues From NRC Equipment Environmental Qualification Safety Evaluation Reports (F-11 and B-60); Farley Unit 1; prepared by The Franklin Institute
APCO exhibit received into evidence, p. 947
17. 01/17/83 Technical Evaluation Report: Review of Licensees' Resolution of Outstanding Issues from NRC Equipment Environmental Qualification Safety Evaluation Reports (F-11 and B-60); Farley Unit 2; prepared by The Franklin Research Center
APCO exhibit received into evidence, p. 947
18. Letter to F. L. Clayton, Jr. - APCo from Steven A. Varga - NRC dated 02/04/83 transmitting Safety Evaluation Report for Environmental Qualification of Safety Related Electrical Equipment - Farley Unit No. 1
APCO exhibit received into evidence, p. 947
19. Letter to F. L. Clayton, Jr. - APCo from Steven A. Varga - NRC dated 02/04/83 transmitting Safety Evaluation Report for Environmental Qualification of Safety Related Electrical Equipment - Farley Unit No. 2
APCO exhibit received into evidence, p. 947

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20. Letter to S. A. Varga - NRC from F. L. Clayton, Jr. - APCo dated 02/29/84 concerning Safety Evaluation Reports and Technical Evaluation Reports Noting Deficiencies Concerning Documentation of Qualification for Several Safety Related Items at FNP; attachments: 1) Summary of Each Deficiency Identified in the TER's for Units 1 and 2; 2) Resolutions to Specific NRC Staff Comments Identified at the 01/11/84 Meeting; 3) Westinghouse Affidavit Requesting Information in Supplements 1, 2, 3 and 4 To Be Withheld from Public Disclosure APCO exhibit received into evidence, p. 947
21. Safety Evaluations dated 12/13/84 for Units 1 and 2; proposed resolutions for deficiencies identified in Safety Evaluations dated 01/31/83 and in the 01/14/83 and 01/17/83 Franklin TER's and to your proposed that JCO's are not necessary APCO exhibit received into evidence, p. 947
22. Letter to S. A. Varga - NRC from R. P. McDonald - APCo dated 01/28/85 transmitting Units 1 and 2 Response to Generic Letter 84-24; Sworn Statement that an EQ program is in place, the plant has at least one path to safe shutdown, and equipment is qualified or operating under JCO. APCO exhibit received into evidence, p. 947
23. FNP Environmental Qualification Program Implementation; FNP-4 ETP-4108, Revision 0 APCO exhibit received into evidence, p. 1060
24. Excerpt from of The Lineman's and Cableman's Handbook, section 33, entitled, "Splicing Cable" APCO exhibit received into evidence, p. 962
25. 21. Okonite Report No. NQRN-3, Rev. 1, June 30, 1982, entitled, "Nuclear Environmental Qualification Report for Okoguard Insulated Cables and T-95 and No. 35 Splicing Tape" Staff exhibit received into evidence, p. 442
26. 16. 07/30/87 letter to NRC Document Control Desk from R. P. McDonald transmitting Farley Unit 1 Licensee Event Report No. LER 87-012-00 Staff exhibit received into evidence, p. 442
27. NEQ Test Report 17859-02P performed by Wyle Laboratories: Qualification Test Program on Ray Chem Nuclear Cable Splices, Okonite Tape Splices, Kerite Tape Splices, Scotch Tape Splices and Amp Butt Splices as Installed on Various Wire Insulations at Commonwealth Edison Companies LaSalle Dresden and Quad Cities Generating Stations, volumes 1 and 2 (March 11, 1987) APCO exhibit received into evidence, p. 962
28. 9. Generic Letter 86-15 entitled "Environmental Qualification of Electric Equipment Important to Safety for Nuclear Power Plants," dated 09/22/86 Staff exhibit received into evidence, p. 304
29. Jesse E. Love resume APCO exhibit received into evidence, p. 1191
30. James E. Sundergill resume APCO exhibit received into evidence, p. 1191

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31. General Design Criterion 4, 10 CFR Part 50, Appendix A
APCO exhibit received into evidence, p. 1191
32. Regulatory Guide 1.97, Rev. 2.
APCO exhibit received into evidence, p. 1191
33. 2. 08/15/88 Notice of Violation and Proposed Imposition of Civil Penalty (NRC Inspection Report Nos. 50-348, 364/8725 and 50-348, 364/87) transmitted to Alabama Power Company from NRC
34. 3. 08/21/90 Order Imposing a Civil Monetary Penalty at Farley
Staff exhibit received into evidence, p. 304
35. Regulatory Guide 1.89, Rev. 1
APCO exhibit received into evidence, p. 1191
36. IEEE Standard 323-1974, Standard for Qualifying Class 1E Electric Equipment for Nuclear Power Generating Stations
APCO exhibit received into evidence, p. 1191
37. IEEE 323-1971, Standard for Qualifying Class 1E Electric Equipment for Nuclear Power Generating Stations
APCO exhibit received into evidence, p. 1191
38. APCO Detail Nos. A-172389-172398: generic design details regarding terminations
APCO exhibit received into evidence, p. 1191
39. 25. Wyle Test Report 17947-01 dated 10/08/87 with Addendum I dated 11/19/88
Staff exhibit received into evidence, p. 442
APCO exhibit received into evidence, p. 947.
40. 26. 05/16/90 Qualification of taped splices for use in instrument circuits subject to harsh environments, Waterford Steam Electric Station, Unit 3
Staff exhibit received into evidence, p. 442
41. Circular 80-10 regarding Failure to Maintain Environmental Qualification of Equipment, dated 04/29/80
APCO exhibit received into evidence, p. 1191
42. 23. NUREG-0588, Rev. 1: Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment
Staff exhibit received into evidence, p. 442
43. 30. 09/23/87 Electric Hydrogen Recombiner Splices -- Justification for Continued Operation
Staff exhibit received into evidence, p. 304
44. 32. WCAP-7709-L: Electrical Hydrogen Recombiner for Water Reactor Containments, produced by Westinghouse Electric Corp.
Staff exhibit received into evidence, p. 529

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45. 29. 09/17/87 Electric Hydrogen Recombiner Splices - Justification for Continued Operation
Staff exhibits received into evidence, p. 529
46. Letter to APCO from Westinghouse regarding 5-to-1 terminations, dated 09/22/87
APCO exhibit received into evidence, p. 1191
47. 31. WCAP-9347: Qualification Testing for Model B Electric Hydrogen Recombiner, produced
by Westinghouse Electric Corp.
Staff exhibits received into evidence, p. 529
48. Letter to Thomas Anderson - Westinghouse from John F. Stolz - NRC dated 06/22/78
transmitting evaluation of WCAP 7709L Re: Hydrogen Recombiners
APCO exhibit received into evidence, p. 1191
49. Westinghouse Electric Hydrogen Recombiner Technical Manual
APCO exhibit received into evidence, p. 1191
50. Wyle Test Report 44354-1, dated 03/08/79
APCO exhibit received into evidence, p. 1191
51. 48. 06/15/84 I.E. Information Notice No. 84-47: Environmental Qualification Tests of Electrical
Terminal Blocks
APCO exhibit received into evidence, p. 1191
Staff exhibit received into evidence, p. 779
52. APCO response to Circular 78-08 and Notice 84-47 regarding terminal blocks and loop
accuracy
APCO exhibit received into evidence, p. 1191
53. Excerpt from IPS-107: Conax Test Report IPS-107 Connection NSS3 Terminal Blocks
APCO exhibit received into evidence, p. 1191
54. Picture of CR151B terminal block taken from vendor's catalogue
APCO exhibit received into evidence, p. 1191
55. 12. Letter to R. P. McDonald - APCo from J. Nelson Grace - NRC dated 02/04/88 transmitting
NRC Inspection Report Nos. 50-348/87-30 and 50-364/87-30
Staff exhibit received into evidence, p. 304
56. Graph representing terminal block Connectron Nss3/#16 AWG Wires, Conax Test Report
IPS-107; representation of IR values over time.
APCO exhibit received into evidence, p. 1191
57. One-page illustration of Connectron terminal block taken from vendor's catalogue
APCO exhibit received into evidence, p. 1191
58. Qualification test reports for GE CR151B terminal blocks
59. 11/24/87 Justification for Continued Operation Unit 1 - Terminal Blocks Used in Instrument
Circuits

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60. 39. Raychem Report EDR 5033/Wyle report 58442-2, dated 04/81
Staff exhibit received into evidence, p. 889
61. Test Report 2BE-1049-3: submergence testing of Chico A/Raychem seal.
APCO exhibit received into evidence, p. 1191
62. 33. Bechtel qualification testing of Raychem seals
Staff exhibit received into evidence, p. 889
63. 40. 02/01/79 Testing and Irradiation of Four Inch Eys Condulet, performed by Southwest
Research Institute
Staff exhibit received into evidence, p. 889
64. 47. Letter to D. M. Verrelli - NRC from R. P. McDonald - APCo dated 01/08/88 transmitting
Additional Documentation Supporting Environmental Qualification of Ray Chem/CHICO
Sealant and Terminal Blocks at Farley; attachments, 1) Correspondence from Bechtel Eastern
Power Co. to APCo Regarding Ray Chem/CHICO sealant Environmental Qualification
Evaluation; 2) Correspondence from DiBenedetto Associates, Inc. to APCo Regarding
Qualification of GE and States Terminal Blocks
Staff exhibit received into evidence, p. 779
65. 35. 11/20/85 EQ Test Report of Raychem NEIS Environmental Interface Seal Kits on Stainless
Steel Pipe (EDR-6063)
Staff exhibit received into evidence, p. 889
66. 43. Bechtel Drawing No. A-177541: Tray and Conduit General Details and Notes.
Staff exhibit received into evidence, p. 889
67. 54. Limitorque Corporation Nuclear Qualification B0058, Parts 1 and 2
Staff exhibits received into evidence, p. 643
68. 52. Limitorque Report 600198: Limitorque Valve Control Test Report
Staff exhibits received into evidence, p. 643
69. 53. Limitorque Report 600456: Qualification Type Test Report
Staff exhibits received into evidence, p. 643
70. (Withdrawn)
71. Limitorque Report B00119, Rev. 1 dated 11/15/82: "Qualification Type Test Report of Multi-
Point Terminal Strips for Use in Limitorque Valve Actuators for PWR Service"
APCO exhibit received into evidence, p. 1191
72. 55. 10/28/83 I.E. Information Notice 83-72: Environmental Qualification Testing Experience
Staff exhibits received into evidence, p. 643
73. 01/14/86 I.E. Information No. 86-03: Potential Deficiencies in Environmental Qualification
of Limitorque Motor Valve Operator Wiring
APCO exhibit received into evidence, p. 1191

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74. excerpt from Texaco's 1988 "Lubricating Oil, Grease and Antifreeze Coolant Digest"
APCO exhibit received into evidence, p. 1191
75. Telecopy to Frank Watford from Thomas P. Gregory dated 06/10/76 regarding Texaco
Lubricant Recommendations Per Equipment Lists
APCO exhibit received into evidence, p. 574
76. Wyle Test Report No. 40196-1: Radiation Exposure and Accident Simulation Test Program
on Texaco Greases and Oils dated 12/05/88
APCO exhibit received into evidence, p. 1191
77. Chevron SRI-2 telecopy from Bolt/Bechtel
APCO exhibit received into evidence, p. 1191
- 77a. Robert O. Bolt resume
78. Letter to W. G. Hairston, III - APCo from Caudle A. Julian - NRC dated 10/31/89
transmitting NRC Inspection Report Nos. 50-348/89-23 and 50-364/89-23: Inspection to
Review APCo's Corrective Actions in Response to Previous Inspection Findings (Bates
#57180)
APCO exhibit received into evidence, p. 1297
79. Philip A. DiBenedetto resume
APCO exhibit received into evidence, p. 1297
80. NRC Order dated 03/30/90: EQ civil penalty at H. B. Robinson
APCO exhibit received into evidence, p. 1297
81. NUGEQ Report "Clarification of Information Related to the Environmental Qualification
of Limitorque Motorized Valve Operators," dated August 1989.
APCO exhibit received into evidence, p. 1297
82. Vincent S. Noonan resume
APCO exhibit received into evidence, p. 1297
83. License Condition for Farley Unit 2
APCO exhibit received into evidence, p. 305
84. 05/23/85 Evaluation and Status of License Conditions for Joseph M. Farley Unit 2;
transmitted from Mr. Steven A. Varga to Mr. R. P. McDonald
APCO exhibit received into evidence, p. 305
85. 08/29/80 correspondence from NRC to APCO transmitting Order for Modification of License
APCO exhibit received into evidence, p. 305
86. Memo to NRC Regional Administrators Regions 1-5 from James Liberman dated 06/21/88
transmitting Guidance for the Preparation of Enforcement Cases Related to EQ Violations;
follow-up to Generic Letter 88-07 describing modified enforcement policy for environmental
qualification actions
APCO exhibit received into evidence, p. 305

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87. Notice of violation for Indian Point Unit 2, dated 11/03/88
APCO exhibit received into evidence, p. 305
88. Notice of violation for Indian Point Unit 3, dated 09/21/88
APCO exhibit received into evidence, p. 305
89. Notice of violation for Susquehanna Units 1 and 2, dated 09/19/88
APCO exhibit received into evidence, p. 305
90. "EQ Scoreboard"
APCO exhibit received into evidence, p. 305
91. Notice of violation for Consumers Power Company's Palisades Nuclear Plant, dated 11/23/88
APCO exhibit received into evidence, p. 305
92. Timeline prepared by Alabama Power Company
APCO exhibit received into evidence, p. 791
93. TI 2515/76 Inspection Module, entitled, "Evaluation of Licensee's Program for Qualification of Electrical Equipment Located in Harsh Environments"
APCO exhibit received into evidence, p. 336
94. Correspondence from NRC to APCO regarding "Summary of Meeting Held on September 24, 1987, Between NRC Staff and APCO Representatives to Discuss Recent Problems Related to Qualification of V-Type Electrical Splices at Farley Site" dated 11/05/87.
APCO exhibit received into evidence, p. 442
95. 09/28/87 correspondence from Wyle Laboratories to APCO regarding Environmental Qualification Test Results on Okonite and 3M Tape Splice Assemblies for the Farley Nuclear Generating Station.
APCO exhibit received into evidence, p. 443
96. Correspondence from Jackie Graham of Southern Company Services to APCO dated 10/29/87, transmitting assessment of V-type tape splices.
APCO exhibit received into evidence, p. 451
97. excerpt from Reliance Manual B-3620-8
APCO exhibit received into evidence, p. 574
98. excerpt from Reliance Manual B-3620-19
APCO exhibit received into evidence, p. 574
99. Installation and Maintenance Manual for Joy Series 1000 Axivane Direct Connected Single and Two Stage Axial Flow Fans
APCO exhibit received into evidence, p. 574
100. excerpt from Reliance Manual B-3628-Rev. 9
APCO exhibit received into evidence, p. 574

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101. excerpt from Reliance Manual B-3628-Rev. 10
APCO exhibit received into evidence, p. 574
102. Physical specimen: EA-180 Seal (Cross section of Raychem boot)
APCO exhibit received into evidence, p. 1192
103. Physical specimen: EA-180 Namco Limit Switch (Full version)
APCO exhibit received into evidence, p. 1192
104. Drawing A-177541 Rev. 0, dated 07/16/82: Procedure for Applying Chico-A4 Compound to the Nipple of Namco's EA-180 Limit Switch Where Raychem Break-Out is Attached
APCO exhibit received into evidence, p. 890
105. Physical specimen: V-type splice
APCO exhibit received into evidence, p. 1192
106. Physical specimen: 5-to-1 splice
APCO exhibit received into evidence, p. 1192
107. Physical specimen: T-drain
APCO exhibit received into evidence, p. 1192
108. 09/30/87 correspondence from APCO to NRC regarding 09/24/87 meeting
APCO exhibit received into evidence, p. 347
109. NUCEQ Report "Clarification of Information Related to the Environmental Qualification of Limitorque Motorized Valve Operators," dated April 1986.
110. J. E. Love markup of Board Exhibit 1
APCO exhibit received into evidence, p. 1223
111. 1 page excerpt from Sandia report: Figure 2, Phase II Environmental Temperature Profile, Jesse Love markup.
APCO exhibit received into evidence, p. 1223
112. 01/07/83 correspondence from APCO to NRC requesting that nine completed license conditions be closed out.
113. 12/28/82 internal NRC correspondence from Thomas M. Novick to William V. Johnston transmitting Supplement to Safety Evaluation Report for Shoreham Nuclear Power Station, Unit 1.
114. 05/03/91 correspondence from NRC to Connecticut Yankee Atomic Power Company, transmitting Electrical Distribution System Functional Inspection (EDSFI) of Haddam Neck, Inspection Report No. 50-213/91-80 and Appendix A, Notice of Violation.
115. 11/21/89 telephone contact report; call from Jim Gleason, Wyle, to Mark Jacobus, Chuck Paulk, and Harold Walker, all of NRC.

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116. Westinghouse Electric Corporation Drawing No. 1366C51, Electric Heater-Wire Bill and Diagram.
117. 11/09/87 Farley inspector notes
118. 10/08/81 Raychem installation instructions for nuclear cable breakout kits.
119. U. S. Department of Labor, Occupational Safety and Health Administration, Material Safety Data Sheet filed for Chico A Sealing Compound, indicating hazardous components; prepared 10/86, last revised 1/91.
120. 02/10/92 Information Notice 92-12: Effects of Cable Leakage Currents on Instrument Settings and Indications.
121. Two pages missing from all copies of Limitorque Report 600198: Limitorque Valve Control Test Report (original document introduced as APCO Exhibit 68 and Staff Exhibit 52, with the Staff document actually received into evidence, at Tr. 643).
122. 10/13/80 correspondence from Limitorque Corporation to Bechtel Power Corporation regarding qualification standards for various actuators.
123. Joy Nuclear Containment Axivane Fan Operators Handbook; dates within the handbook range from January 1973 to February 1975.
124. Redacted version of IPS-107 Test Report on Electrical Terminations Subjected to Design Basis Accident Environment North Anna Power Stations Unit I and II; Virginia Electric Power Company Richmond, Virginia; Stone and Webster Engineering Corp.-Agent
125. Dick Wilson inspection notes, Bates #102443
126. Dick Wilson inspection notes, Bates #102441
127. Dick Wilson inspection notes, Bates #102538
128. Dick Wilson inspection notes, Bates #102436
129. 3-page document from Raychem telephone log confirming conversation between Dick Wilson and Ken Baker of Raychem on 05/14/92.
130. States ZWM terminal block, physical exhibit
131. States NT terminal block, physical exhibit
132. General Electric CR 151B, physical exhibit
133. General Electric EB 25 terminal block, physical exhibit
134. Connectron NSS 3 terminal block, physical exhibit

135. 1-page drawing entitled, "Connectron Inc. NSS3 terminal block assembly as-built deminsions; scale 1":1"; based on examination of existing sample"

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NOTES

- APCO 39 and Staff 25 have been received into evidence; APCO 39 includes Addendum 1.
- Staff 32, which has been received into evidence, is missing pages; refer to APCO 44.
- Staff 27, which has been received into evidence, is missing pages; refer to APCO 7.