

APPENDIX B

**LIST OF TECHNICAL REPORTS AND TECHNICAL NOTES FROM
THE PLASTIC PIPE INSTITUTE (PPI – www.plasticpipe.org)**

**LIST OF TECHNICAL REPORTS FROM THE GAS TECHNOLOGY INSTITUTE
(formerly GAS RESEARCH INSTITUTE)**

List of Technical Reports and Technical Notes from the Plastic Pipe Institute

(available from www.plasticpipe.org)

1. Policies and Procedures for Developing Hydrostatic Design Basis (HDB), Pressure Design Basis (PDB), Strength Design Basis (SDB), and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe (2006), TR-3-2006.
2. PPI Listing of Hydrostatic Design Basis (HDB), Strength Design Basis (SDB), Pressure Design Basis (PDB) and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe (2006), TR-4.
3. A listing of standards for the various types of plastics piping are promulgated by numerous standards - making organizations (2005), TR-5.
4. Recommended Methods for Calculation of Nominal Weight of Solid Wall Plastic Pipe, (2000), TR-7.
5. Recommended Design Factors for Pressure Applications of Thermoplastic Pipe Materials. (2003), TR-9.
6. Resistance of Thermoplastic Piping Materials to Micro- and Macro-Biological Attack. (2006), TR-11.
7. Water Flow Characteristics of Thermoplastic Pipe. (2000), TR-14 + Design assistance software.
8. Weatherability of Thermoplastic Piping Systems (2005), TR-18.
9. Thermoplastic Piping for the Transport of Chemicals, (2000), TR-19.
10. Thermal Expansion and Contraction in Plastics Piping Systems, (2001), TR-21.
11. Investigation of Maximum Temperatures Attained by Plastic Fuel Gas Pipe Inside Service Risers, (2000), TR-30
12. Generic Butt Fusion Joining Procedure for Polyethylene Gas Pipe, (2005), TR-33.
13. Disinfection of Newly Constructed Polyethylene Water Mains, (2001), TR-34.
14. Chemical & Abrasion Resistance of Corrugated Polyethylene Pipe, (1997), TR-35.
15. Generic Saddle Fusion Joining Procedure for Polyethylene Gas Piping, (2002), TR-41.
16. Nature of Hydrostatic Stress Rupture Curves, (2005), TN-7.
17. Suggested Temperature Limits for the Operation and Installation of Thermoplastic Piping in Non-Pressure Applications (1999), TN-11.
18. General Guidelines for Butt, Saddle and Socket Fusion of Unlike Polyethylene Pipes and Fittings, (2001), TN-13.
19. Rate Process Method for Projecting Performance of Polyethylene Piping Components, (1999), TN-16.
20. PPI PENT test investigation. Phase1.xls, (2000), TN-21.
21. PPI Guidelines for Qualification Testing of Mechanical Couplings for PE Pipes in Pressurized Water or Sewer Service, (2001), TN-22.
22. Guide to Differences in Pressure Rating PE Water Pipe between the ASTM and ISO Methods. (2003), TN-28.
23. Model Specification for Polyethylene Plastic Pipe, Tubing and Fittings for Water Mains and Distribution, (2004), MS3.
24. Fusion Statement - Joining PE Pipe Using Heat Fusion Technology, (2004).
25. Caution Statement on Heat Fusion Methods of Polyethylene Pipe and/or Fitting of Similar Colors. (2001), Statement S.

**LIST OF REPORTS FROM GAS TECHNOLOGY INSTITUTE
(formerly Gas Research Institute)**

1. Structural Basis for Mechanical Properties of Polyethylenes, Document Number: GRI-92/0216, 1992.
2. Structural Basis for the Mechanical Properties of Polyethylenes, Document Number: GRI-91/0178, 1991.
3. Theoretical Foundation and Experimental Implementation of Accelerated Testing for Polyethylene Lifetime, Document Number: GRI-95/0049, 1995.
4. Kinetics and Microscopic Processes of Long Term Fracture in Polyethylene Piping Materials, Document Number: GRI-92/0286, 1992.
5. Fractographic Study on the Origin of Toughness of Polyethylene and Its Implication for Accelerated Testing, Document Number: GRI-93/0498, 1993.
6. Fatigue Accelerated Brittle Failure of Polyethylene Copolymer Pipes, Document Number: GRI-91/0030, 1991.
7. Kinetics and Microscopic Processes of Long Term Fracture in Polyethylene Piping Materials, Document Number: GRI-90/0104, 1990.
8. Fundamental Mechanisms of Failure in Polyethylene Gas Pipes, Document Number: GRI-96/0294, 1996.
9. Exploratory Research on Infrared Imaging for Inspection of Electrofusion Joints in Polyethylene Gas Pipe, Document Number: GRI-92/0468, 1992.
10. Reconstruction of Microfracture Processes in Two Polyethylene Pipeline Materials by FRASTA, Document Number: GRI-91/0208, 1991.
11. Guidelines and Methods for Service Life Estimation of Polyethylene Gas Piping, Document Number: GRI-00/0138, 2000.
12. Fundamental Mechanisms of Failure in Polyethylene Gas Pipes, Document Number: GRI-95/0227, 1995.
13. Effect of Pipe Wall Thickness on the Heat Fusion Quality of Polyethylene Saddle Joints, Document Number: GRI-95/0226, 1995.
14. Fundamental Mechanisms of Failure in Polyethylene Gas Pipes, Document Number: GRI-94/0267, 1994.
15. Fundamental Mechanisms of Failure in Polyethylene Gas Pipes, Document Number: GRI-93/0277, 1993.
16. Characterization of Polyethylene Resins and Gas Pipe: Phase II – Correlations, Document Number: GRI-93/0124, 1993.
17. Volume II: Technical Reference for the Use of the Slow Crack Growth Test for Modeling and Predicting the Long-Term Performance, Document Number: GRI-93/0106, 1993.
18. Volume I: Brief Guide for the Use of the Slow Crack Growth Test for Modeling and Predicting the Long-Term Performance of Polyethylene, Document Number: GRI-93/0105, 1993.
19. Volume 3: Users' Manual for the Slow Crack Growth Test Method for Polyethylene Gas Pipes, Document Number: GRI-92/0481, 1992.
20. Volume 2: Applicability of the Slow Crack Growth Test Method for Polyethylene Gas Pipes, Document Number: GRI-92/0480, 1992.
21. Volume 1: Slow Crack Growth Test Method for Polyethylene Gas Pipes, Document Number: GRI-92/0479, 1992.
22. Fatigue Accelerated Brittle Failure of Polyethylene Copolymer Pipes, Document Number: GRI-92/0275, 1992.
23. Volume 1: Users' Guide on Squeeze-Off of Polyethylene Gas Pipes, Document Number: GRI-92/0147.1, 1992.

24. Volume II: Technical Reference on Bending Limits for Polyethylene Gas Pipes, Document Number: GRI-92/0061.2, 1992.
25. Volume I: Users' Guide on Bending Limits for Polyethylene Gas Pipes, Document Number: GRI-92/0061.1, 1992.
26. Theory and Experiment of Accelerated Testing of Polyethylene Piping Materials, Document Number: GRI-90/0118, 1990.
27. Design and Technical Reference to Mitigate Rapid Crack Propagation in Polyethylene Pipes for Gas Distribution, Document Number: GRI-97/0166, 1997.
28. Fundamental Mechanisms of Failure in Polyethylene Gas Pipes, Document Number: GRI-96/0235, 1996.
29. Service Effects of Hydrocarbons on Fusion and Mechanical Performance of Polyethylene Gas Distribution Piping, Document Number: GRI-96/0194, 1996.
30. Lifetime Forecasting of Electrofusion Joining Systems for Polyethylene Gas Pipes, Document Number: GRI-96/0130, 1996.
31. Analysis of Microscopic Leaks in Polyethylene Gas Distribution Piping, Document Number: GRI-96/0014, 1996.
32. Determination of the Performance Life of Heat Fusion Joints in Polyethylene Gas Pipe Materials, Document Number: GRI-91/0032, 1991.
33. Service Performance of Polyethylene Pipes Containing Surface Notches Subjected to Internal Pressure, Document Number: GRI-00/0137, 2000.
34. Life Prediction of Butt Heat Fusion Joints in Polyethylene Gas Pipe Materials, Document Number: GRI-91/0360, 1991.
35. Evaluation of Pipe Preparation, Joining Conditions and Mechanical Performance, Document Number: GRI-96/0129, 1996.
36. Field Loads Acting on Plastic Gas Pipes: Instrumentation and Data Acquisition, Document Number: GRI-00/0239, 2000.
37. Impact Test for Predicting the Critical Temperature for Rapid Crack Propagation in PE Gas Pipes, Document Number: GRI-00/0210, 2000.
38. Technical Reference for Improved Design and Construction Practices to Account for Thermal Loads in Plastic Gas Pipelines, Document Number: GRI-99/0192, 1999.
39. PE LIFESPAN FORECASTING(TM): Plastic Piping Systems. User's Manual, Document Number: GRI-98/0359, 1998.
40. PE LIFESPAN FORECASTING: Plastic Piping Systems. [Software on CD-ROM], Document Number: GRI-98/0358, 1998.
41. Handbook of Hydrostatic Stress-Rupture Data for Plastic Pipe Materials Used for Gas Distribution, Document Number: GRI-98/0355, 1998.
42. Plastic Pipe Field Failures Catalog. [CD-ROM], Document Number: GRI-98/0202, 1998.
43. Fractographic Study on the Origin of Toughness of Polyethylene and Its Implication for Accelerated Testing, Document Number: GRI-93/0498, 1993.

APPENDIX C

ASTM STANDARDS RELEVANT TO ASME CODE CASE N-755

List of ASTM Standards for HDPE Plastic Pipe Relevant to CC N755

1. D1598-02 Standard Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure
2. D1599-99e1 Standard Test Method for Resistance to Short-Time Hydraulic Failure Pressure of Plastic Pipe, Tubing, and Fittings
3. D2104-03 Standard Specification for Polyethylene (PE) Plastic Pipe, Schedule 40
4. D2122-98e1 Standard Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings
5. D2239-03 Standard Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter
6. D2321-00 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications
7. D2412-02 Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
8. D2444-99 Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)
9. D2447-03 Standard Specification for Polyethylene (PE) Plastic Pipe, Schedules 40 and 80, Based on Outside Diameter
10. D2513-03b Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings
11. D2609-02 Standard Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe
12. D2657-03 Standard Practice for Heat Fusion Joining of Polyolefin Pipe and Fittings
13. D2683-98 Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing
14. D2737-03 Standard Specification for Polyethylene (PE) Plastic Tubing
15. D2749-02 Standard Symbols for Dimensions of Plastic Pipe Fittings
16. D2774-01 Standard Practice for Underground Installation of Thermoplastic Pressure Piping
17. D2837-02 Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials
18. D3035-03 Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter
19. D3261-03 Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing
20. D4166-99 Standard Test Method for Measurement of Thickness of Nonmagnetic Materials by Means of a Digital Magnetic Intensity Instrument
21. F405-97 Standard Specification for Corrugated Polyethylene (PE) Tubing and Fittings
22. F409-02 Standard Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
23. F412-01ae1 Standard Terminology Relating to Plastic Piping Systems
24. F480-02 Standard Specification for Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), SCH 40 and SCH 80
25. F585-94(2000) Standard Practice for Insertion of Flexible Polyethylene Pipe Into Existing Sewers

26. F645-02 Standard Guide for Selection, Design, and Installation of Thermoplastic Water-Pressure Piping Systems
27. F690-86(2003)e1 Standard Practice for Underground Installation of Thermoplastic Pressure Piping Irrigation Systems
28. F714-03 Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter
29. F725-03e1 Standard Practice for Drafting Impact Test Requirements In Thermoplastic Pipe And Fittings Standards
30. F771-99e1 Standard Specification for Polyethylene (PE) Thermoplastic High-Pressure Irrigation Pipeline Systems
31. F810-01 Standard Specification for Smoothwall Polyethylene (PE) Pipe for Use in Drainage and Waste Disposal Absorption Fields
32. F894-98a Standard Specification for Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe
33. F905-96 Standard Practice for Qualification of Polyethylene Saddle Fusion Joints
34. F948-94(2001)e1 Standard Test Method for Time-to-Failure of Plastic Piping Systems and Components Under Constant Internal Pressure With Flow
35. F1025-94(2000) Standard Guide for Selection and Use of Full-Encirclement-Type Band Clamps for Reinforcement or Repair of Punctures or Holes in Polyethylene Gas Pressure Pipe
36. F1041-02 Standard Guide for Squeeze-Off of Polyolefin Gas Pressure Pipe and Tubing
37. F1055-98e1 Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing
38. F1056-97 Standard Specification for Socket Fusion Tools for Use in Socket Fusion Joining Polyethylene Pipe or Tubing and Fittings
39. F1248-96(2002)e1 Standard Test Method for Determination of Environmental Stress Crack Resistance (ESCR) of Polyethylene Pipe
40. F1290-98a Standard Practice for Electrofusion Joining Polyolefin Pipe and Fittings
41. F1412-01e1 Standard Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems
42. F1473-01e1 Standard Test Method for Notch Tensile Test to Measure the Resistance to Slow Crack Growth of Polyethylene Pipes and Resins
43. F1498-00 Standard Specification for Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings
44. F1563-01 Standard Specification for Tools to Squeeze-off Polyethylene (PE) Gas Pipe or Tubing
45. F1588-96(2002) Standard Test Method for Constant Tensile Load Joint Test (CTLJT)
46. F1668-96(2002) Standard Guide for Construction Procedures for Buried Plastic Pipe
47. F1675-03 Standard Practice for Life-Cycle Cost Analysis of Plastic Pipe Used for Culverts, Storm Sewers, and Other Buried Conduits
48. F1734-03 Standard Practice for Qualification of a Combination of Squeeze Tool, Pipe, and Squeeze-Off Procedures to Avoid Long-Term Damage in Polyethylene (PE) Gas Pipe
49. F1759-97 Standard Practice for Design of High-Density Polyethylene (HDPE) Manholes for Subsurface Applications

50. F1804-03 Standard Practice for Determining Allowable Tensile Load for Polyethylene (PE) Gas Pipe During Pull-In Installation
51. F1924-01e1 Standard Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing
52. F1948-99ae1 Standard Specification for Metallic Mechanical Fittings for Use on Outside Diameter Controlled Thermoplastic Gas Distribution Pipe and Tubing
53. F1962-99 Standard Guide for Use of Maxi-Horizontal Directional Drilling for Placement of Polyethylene Pipe or Conduit Under Obstacles, Including River Crossings
54. F2018-00e1 Standard Test Method for Time-to-Failure of Plastics Using Plane Strain Tensile Specimens
55. F2136-01e1 Standard Test Method for Notched, Constant Ligament-Stress (NCLS) Test to Determine Slow-Crack-Growth Resistance of HDPE Resins or HDPE Corrugated Pipe
56. F2160-01 Standard Specification for Solid Wall High Density Polyethylene (HDPE) Conduit Based on Controlled Outside Diameter (OD)
57. F2164-02 Standard Practice for Field Leak Testing of Polyethylene (PE) Pressure Piping Systems Using Hydrostatic Pressure
58. F2176-02 Standard Specification for Mechanical Couplings Used on Polyethylene Conduit, Duct and Innerduct
59. F2206-02 Standard Specification for Fabricated Fittings of Butt-Fused Polyethylene (PE) Plastic Pipe, Fittings, Sheet Stock, Plate Stock, or Block Stock
60. F2231-02e1 Standard Test Method for Charpy Impact Test on Thin Specimens of Polyethylene Used in Pressurized Pipes
61. R0077- ISO Standards and Recommendations on Plastic Pipe Prepared by ISO/TC 138 (This is not an ASTM standard; available as PDF, only)

APPENDIX D

PRESENTATION BY DUKE ENERGY TO THE US-NRC (JUNE 2005)

July 19, 2005

LICENSEE: Duke Energy Corporation

FACILITY: Catawba Nuclear Station, Units 1 and 2

SUBJECT: SUMMARY - MEETING WITH DUKE ENERGY CORPORATION ON
POLYETHYLENE PIPING USE FOR SAFETY RELATED BURIED SERVICE
WATER PIPING AT CATAWBA NUCLEAR STATION (TAC NOS. MC7294 AND
MC7295)

Representatives of Duke Energy Corporation (Duke, the licensee) and the Electric Power Research Institute (EPRI), met with members of the Nuclear Regulatory Commission (NRC) staff at NRC Headquarters on June 27, 2005, in Rockville, Maryland. The meeting addressed issues related to a potential relief request to be submitted by the licensee in the Fall/Winter of 2005, for Catawba Nuclear Station (Catawba), Units 1 and 2. These issues concerned Duke's plans to use buried high-density polyethylene (HDPE) piping for the safety related service water system in order to address problems with corrosion, sedimentation, and biological fouling in the current carbon steel piping. A list of attendees is provided in Attachment 1 and the handouts provided in the meeting are included in Attachment 2.

SUMMARY OF MEETING

Duke's presentation utilized the enclosed handout entitled, "Catawba Nuclear Station, Polyethylene Piping Use for Safety Related Buried Service Water Piping." Duke presented this information for two purposes. First, it would familiarize the NRC staff with the details of the possible relief request. Second, the licensee would use the comments and feedback given by the NRC to help focus its efforts to develop the relief request.

Currently at Catawba, the Nuclear Service Water System and the Low Pressure Service Water System combine for approximately 45,000 to 50,000 feet of piping. Because of the unique chemistry of Lake Wylie, the lake used for the source of the service water, the licensee has seen a history of cooling flow restrictions, caused by corrosion products, sedimentation, biological growth, and clams fouling the components within the system. Furthermore, this environment has promoted through-wall pitting of the current steel Nuclear Service Water System piping.

In an effort to curtail these problems, the licensee may propose using HDPE piping for the safety-related Nuclear Service Water System. Duke has around 10 years of experience using HDPE piping, which it has found shows superior corrosion and biological buildup resistance. Furthermore, Duke stated that the British Energy Sizewell B Plant has obtained approval and has installed HDPE in the American Society of Mechanical Engineering (ASME) Section III, Class 3 emergency service water system. The licensee also discussed the other industrial uses of polyethylene piping, including the natural gas and the water treatment industries.

To provide further information on the piping, Duke brought samples of the welded piping and explained the status of the ASME code development for HDPE. The EPRI representatives then

discussed the seismic analysis and the non-destructive examination techniques used for the HDPE. The NRC staff asked numerous questions and provided constant feedback during the meeting.

CONCLUSION

At the conclusion of the meeting, the licensee indicated that it would use the information gathered to aid in the development of its relief request. Duke expects to submit this relief request some time in the Fall/Winter of 2005.

No members of the public attended this meeting. There were no public comments.

Sincerely,

/RA/

Sean E. Peters, Project Manager, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Attachments: 1. Attendance List
2. Meeting presentation materials

cc w/atts: See next page

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Sincerely,

/RA/

Sean E. Peters, Project Manager, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

- Attachments: 1. Attendance List
- 2. Meeting presentation materials

cc w/atts: See next page

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Attachment 1: ML051940393

Attachment 2: ML051950197

NRC-001

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DATE	7/14/05	7/14/05	7/19/05

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ATTENDEES LIST

JUNE 27, 2004

MEETING WITH DUKE ENERGY CORPORATION

<u>NAME</u>	<u>ORGANIZATION</u>
Keith Wichman	NRC/NRR/DE/EMCB
Carolyn Lauron	NRC/NRR/DE/EMCB
George Georgiev	NRC/NRR/DE/EMCB
Eric Reichelt	NRC/NRR/DE/EMCB
John Fair	NRC/NRR/DE/EMEB
John Tsao	NRC/NRR/DE/EMCB
Frank Schaaf	Sterling Refrigeration Corp.
C. Wesley Rowley	EPRI/TWC
Mel Arey	Duke Power - Materials
Dave Ward	Duke Power - Catawba
Ernie McElroy	Duke Power - Catawba
Terry Edwards	Duke Power - Catawba
Lawrence Rudy	Duke Power - Catawba
Steve Lefler	Duke Power - General Office
Sean Peters	NRC/NRR/DLPM
Gene Imbro	NRC/NRR/DE/EMEB
Kamal Manoly	NRC/NRR/DE/EMEB
Patrick Sekerak	NRC/NRR/DE/EMEB
Don Naujock	NRC/NRR/DE/EMCB
Terence Chan	NRC/NRR/DE/EMCB
Jack Spanner	EPRI

cc:

Mr. Lee Keller, Manager
Regulatory Compliance
Duke Energy Corporation
4800 Concord Road
York, South Carolina 29745

Ms. Lisa F. Vaughn
Duke Energy Corporation
Mail Code - PB05E
422 South Church Street
P.O. Box 1244
Charlotte, North Carolina 28201-1244

Ms. Anne Cottingham, Esquire
Winston and Strawn LLP
1700 L Street, NW
Washington, DC 20006

North Carolina Municipal Power
Agency Number 1
1427 Meadowood Boulevard
P.O. Box 29513
Raleigh, North Carolina 27626

County Manager of York County
York County Courthouse
York, South Carolina 29745

Piedmont Municipal Power Agency
121 Village Drive
Greer, South Carolina 29651

Ms. Karen E. Long
Assistant Attorney General
North Carolina Department of Justice
P.O. Box 629
Raleigh, North Carolina 27602

NCEM REP Program Manager
4713 Mail Service Center
Raleigh, North Carolina 27699-4713

North Carolina Electric Membership Corp.
P.O. Box 27306
Raleigh, North Carolina 27611

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
4830 Concord Road
York, South Carolina 29745

Mr. Henry Porter, Assistant Director
Division of Waste Management
Bureau of Land and Waste Management
Dept. of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

Mr. R.L. Gill, Jr., Manager
Nuclear Regulatory Issues
and Industry Affairs
Duke Energy Corporation
526 South Church Street
Mail Stop EC05P
Charlotte, North Carolina 28202

Saluda River Electric
P.O. Box 929
Laurens, South Carolina 29360

Mr. Peter R. Harden, IV, Vice President
Customer Relations and Sales
Westinghouse Electric Company
6000 Fairview Road
12th Floor
Charlotte, North Carolina 28210

Mr. T. Richard Puryear
Owners Group (NCEMC)
Duke Energy Corporation
4800 Concord Road
York, South Carolina 29745

cc:

Mr. Richard M. Fry, Director
Division of Radiation Protection
NC Dept. of Environment, Health,
and Natural Resources
3825 Barrett Drive
Raleigh, North Carolina 27609-7721

Mr. Henry Barron
Group Vice President, Nuclear Generation
and Chief Nuclear Officer
P.O. Box 1006-EC07H
Charlotte, NC 28201-1006

Diane Curran
Harmon, Curran, Spielberg &
Eisenberg, LLP
1726 M Street, NW
Suite 600
Washington, DC 20036

SUBJECT: SUMMARY - 6/27/05 - MEETING WITH DUKE ENERGY CORPORATION ON
POLYETHYLENE PIPING USE FOR SAFETY RELATED BURIED SERVICE
WATER PIPING AT CATAWBA NUCLEAR STATION (TAC NOS. MC7294 AND
MC7295)

Dated: July 19, 2005

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