



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

May 27, 2004

10 CFR 54  
10 CFR 51

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of	)	Docket Nos.	50-259
Tennessee Valley Authority	)		50-260
			50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - UNITS 1, 2, AND 3 – MARCH 30-31, 2004 MEETING FOLLOW-UP – ADDITIONAL INFORMATION FOR LICENSE RENEWAL ENVIRONMENTAL REVIEW**

By letter dated December 31, 2003, TVA submitted an application to renew the operating licenses for BFN Units 1, 2, and 3. On March 30-31, 2004, several NRC Headquarters Staff members from the License Renewal Environmental Impact section and Pacific Northwest National Laboratory contractors met with TVA at BFN and toured the site and adjacent environs. The purpose of the visit was to gain familiarity with BFN and its surroundings and to obtain information necessary for completing a Supplement to the Generic Environmental Impact Statement for License Renewal, specifically for BFN. During the meeting, TVA personnel answered questions on a wide range of environmental topics, as requested. To assist the Staff in its review of the Environmental Report contained in the BFN application, the enclosed CD-ROMs provide additional information on these and other matters that were addressed during the meeting.

Four CD-ROMs are included in this submittal. Due to the large number of files associated with the various documents, TVA has included the listing of files and file size for each CD-ROM in an Enclosure. The CD-ROMs are labeled "BFN License Renewal Environmental Review Additional Information, Publicly Available." TVA is submitting this information in conformance with the guidance in Federal Register (FR) notification 68FR58826, Appendix A, United States Nuclear Regulatory Commission (NRC) Guidance for Electronic Submission to the Commission, dated October 10, 2003.

This letter contains no new commitments.

A105

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If you have any questions about this information, please contact Chuck Wilson, Project Manager for BFN License Renewal Environmental Review, at (423) 751-6153 or [clwilson@tva.gov](mailto:clwilson@tva.gov).

Sincerely,

  
Mark J. Burzynski  
Manager  
Nuclear Licensing

Enclosure

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cc: Continued on page 3

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## ENCLOSURE

<b>BROWNS FERRY NUCLEAR PLANT ADDITIONAL INFORMATION FOR LICENSE RENEWAL ENVIRONMENTAL REVIEW (ALL LISTED FILES PUBLICLY AVAILABLE)</b>	
<b>CATEGORY 1: TVA ANSWERS TO QUESTIONS FROM PNNL STAFF</b>	
FILE NAME	FILE SIZE (kilobytes)
<b>001_PNNL Questions on ER Alternatives Sect.pdf</b> [Answers to PNNL questions on Alternatives (Wilson, 2004a)]	56
<b>002_PNNL Quest-BFN Area Mun Pot Water Src.pdf</b> [Answers to PNNL questions on potable Water sources (Wilson, 2004b)]	47
<b>003_PNNL Quest-SocioEconomic and EvironJust.pdf</b> [Answers to PNNL questions on Socioeconomics, including TVA's <i>in lieu of</i> tax payments for BFN (Eblen, 2004)]	176
<b>004_PNNL Questions-Water Rights Summary.pdf</b> [In answer to PNNL question, Water Rights Summary (Wilson, 2004c)]	92
<b>005_PNNL Quest-BFN Intake Characteristics.pdf</b> [Answers to PNNL questions regarding BFN Intake Characteristics (Wilson, 2004d)]	35
<b>006_PNNL Questions-BFN Projects Employment.pdf</b> [Answers to PNNL questions regarding BFN Projects Employment (Wilson, 2004e)]	42
<b>CATEGORY 2: TVA LETTER CORRESPONDENCE REQUESTED BY PNNL STAFF</b>	
FILE NAME	FILE SIZE (kilobytes)
<b>007_01JAN97Corresp. from ADEM to JBrellenthin.pdf</b> [Copy of January 14, 1997 letter from Alabama Department of Environmental Management (ADEM) regarding Title V of the Clean Air Act amendments of 1990 permitting requirements to John Brellenthin for BFN as a minor source (ADEM, 1997)]	64
<b>008_21MAY96Corresp. from ADEM to JBrellenthin.pdf</b> [Copy of May 21, 1996 letter from ADEM to John Brellenthin of TVA-BFN regarding minor source status (ADEM, 1996)]	39
<b>009_29APR96Corresp. from JBrellenthin to ADEM.pdf</b> [Copy of April 29, 1996 letter from John Brellenthin of TVA-BFN to ADEM for request for minor source designation, with enclosure (Brellenthin, 1996)]	115
<b>010_12MAR04 Corresp. from C.Cooper to ADEM.pdf</b> [Copy of March 12, 2004 letter from Carroll Cooper of TVA-BFN to ADEM regarding 2003 non-radiological emissions (Cooper, 2004)]	43
<b>011_13MAR03 Corresp. from C.Cooper to ADEM.pdf</b> [Copy of March 13, 2003 letter from Carroll Cooper of TVA-BFN to ADEM regarding 2002 non-radiological emissions (Cooper, 2003)]	43
<b>012_06MAR02 Corresp. from C.Cooper to ADEM.pdf</b> [Copy of March 6, 2002 letter from Carroll Cooper of TVA-BFN to ADEM regarding 2001 non-radiological emissions (Cooper, 2002)]	41
<b>013_12MAR01Corresp. from JBrellenthin to ADEM.pdf</b> [Copy of March 12, 2001 letter from John Brellenthin of TVA-BFN to ADEM regarding 2000 non-radiological emissions (Brellenthin, 2001)]	41

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(LIST OF FILES ON CD-ROM) (CONTINUED)	
<b>CATEGORY 2: TVA LETTER CORRESPONDENCE REQUESTED BY PNNL STAFF (CONTINUED)</b>	
FILE NAME	FILE SIZE (kilobytes)
<b>014_24MAR00Corresp. from JBrellenthin to ADEM.pdf</b> [Copy of March 24, 2000 letter from John Brellenthin of TVA-BFN to ADEM regarding 1999 non-radiological emissions (Brellenthin, 2000)]	40
<b>015_03FEB99Corresp. from JBrellenthin to ADEM.pdf</b> [Copy of February 3, 1999 letter from John Brellenthin of TVA-BFN to ADEM regarding 1998 non-radiological emissions (Brellenthin, 1999)]	40
<b>CATEGORY 3: TVA DOCUMENTS AND DATA REQUESTED BY PNNL STAFF AT MARCH 30 &amp; 31, 2004 MEETING</b>	
FILE NAME	FILE SIZE (kilobytes)
<b>016_Hourly BFN Onsite Meteorol. Data for 2002.pdf</b> [Electronic data file, 2002 hourly BFN on-site meteorological data (Nielsen, 2004)]	795
<b>017_BFN Occupat Dose Summary 2001-2003.pdf</b> [Excel file, BFN Occupational Radiation Dose Summary 2001-2003 (Simpkins, 2004)]	34
<b>018_Radwst Gen FY Vol '98-'03_Goals '04-'08.pdf</b> [Single-page hard-copy table, BFN (Solid) Radwaste Generation Fiscal Year Volume for 1998-2003 and goals for 2004-2008 (Pierce, 2004)]	43
<b>019_Outline-SEIS Sect for AnalyOccupRadDose.pdf</b> [Three-page hard-copy outling of BFN SEIS Section 4.3.21.1.1 analysis of Occupational Radiation Dose (Simpkins, 2002)]	91
<b>020_BFN 2002 Ann. Radiol. Environ Operat. Rpt.pdf</b> [Hard-copy document, BFN 2002 Annual Radiological Environmental Operating Report (Raines, 2003)]	2,304
<b>021_Guide for Environ BMP_TVA Trans C&amp;M Act.pdf</b> [Hard-copy document, "A Guide for Environmental Protection and Best Management Practices for TVA Transmission Construction and Maintenance Activities" (TVA-TPS, 1999)]	295
<b>022_Existing Policies on Invasives Species.pdf</b> [Three-page hard-copy outline, "Existing Policies Involving Invasive Species" (Collins, 2004)]	102
<b>023_BFN Circulating Cooling Water Flows SpSh.pdf</b> [Spreadsheet - BFN Circulating Cooling Water Flows (Hopping 2004a)]	36
<b>024_BFN Heat Rejection Spreadsheet.pdf</b> [Spreadsheet - BFN Heat Rejection (Hopping, 2004b)]	49
<b>025_BFN Well Map.pdf</b> [BFN Well Map (Hjulian, 2004a)]	54
<b>026_BFN Groundwater Well Level Data.pdf</b> [Spreadsheet - BFN Groundwater Well Level Data (Julian, 2004b)]	65
<b>027_BFN Well Physical Description.pdf</b> [Spreadsheet - BFN Well Physical Description (Julian, 2004c)]	47
<b>028_Wheeler Reserv. Annual Level Fluctuation.pdf</b> [Graph - Wheeler Reservoir Annual Level Fluctuation (Julian, 2004d)]	20

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CATEGORY 3: TVA DOCUMENTS AND DATA REQUESTED BY PNNL STAFF AT MARCH 30 & 31, 2004 MEETING (CONTINUED)	
FILE NAME	FILE SIZE (kilobytes)
<b>029_Supplmnt to ADEM,2001ref to Tbls E2-14&amp;15.pdf</b> [Data supporting Tables E.2-14 and E.2-15 to supplement incomplete ADEM, 2001 reference (Bohac, 2004)]	655
CATEGORY 4: TVA PRESENTATIONS AT MARCH 30 & 31, 2004 MEETING	
FILE NAME	FILE SIZE (kilobytes)
<b>030_PPT Presentation on Wetland Reviews.pdf</b> [Power Point presentation on Wetland Reviews (Pilarski, 2004)]	2,983
<b>031_BFN Industrial Safety Info. Presentation.pdf</b> [BFN Industrial Safety Information presentation (Isaacs, 2004)]	1,220
CATEGORY 5: REFERENCE IN TVA'S ENVIRONMENTAL REPORT FOR BFN LICENSE RENEWAL	
FILE NAME	FILE SIZE (kilobytes)
<b>032_Ahlstedt, S.A. and T.A. McDonough, 1993.pdf</b> Quantitative evaluation of commercial mussel populations in the Tennessee River portion of Wheeler Reservoir, Alabama. Pages 38-49 in K. S. Cummings, A. C. Buchanan and L.M. Koch (editors). Conservation and management of freshwater mussels. Proceedings of a UMRCC symposium, 12-14 October 1992, St. Louis, Missouri. Upper Mississippi River Conservation Committee, Rock Island, Illinois.	16,938
<b>033_Alabama Dept of Environmental Mgmt, 2001.pdf</b> Personal Communication with Enid Bittner, Alabama Department of Environment and Conservation, Public Groundwater Supplies Within a 2-Mile Radius of Browns Ferry Nuclear Plant	260
<b>034_Alabama Dept of Environmental Mgmt, 2002.pdfb</b> ADEM final listing decision for Wheeler Reservoir on the Tennessee River waterbody identification number AL/Wheeler_Res01 pH temperature/thermal modification.	166
<b>035_Baker, T., 2001.pdf</b> Personal communication	350
<b>036_Barnthouse, L.W., 2003.pdf</b> Review of comments by Pisces, Ltd. On EPA's 316(b) case study analysis review of modifications to the case study methodology documented in EPA's notice of data availability. Prepared for the Electric Power Research Institute	10,578
<b>037_Baxter, D.S. and J.P. Buchanan, 1998.pdf</b> Browns Ferry Nuclear Plant Thermal Variance Monitoring Program including Statistical Analyses - Final Report. Tennessee Valley Authority, Water Management, Aquatic Biology Lab, Norris, Tennessee. Revised August 1998. 64pp.	914
<b>038_Baxter, D.S. and K.D. Gardner, 2003.pdf</b> Biological Monitoring of the Tennessee River Near Browns Ferry Nuclear Plant Discharge, 2002. Tennessee Valley Authority, Resource Stewardship, Aquatic Biology Laboratory, Norris Tennessee. 21p.	284
<b>039_Bechtel, 1991.pdf</b> Evaluation of Cooling tower Alternatives, Browns Ferry Nuclear Plant", Bechtel Corporation, Report No. ER-0034, November 1991	13,788

## ENCLOSURE

CATEGORY 5: REFERENCE IN TVA'S ENVIRONMENTAL REPORT FOR BFN LICENSE RENEWAL (CONTINUED)	
FILE NAME	FILE SIZE (kilobytes)
<b>040_Bender, M.D., 1990.pdf</b> "BETTER: A Two-Dimensional Reservoir Water Quality Model – Technical Reference Manual and User's Guide," Tennessee Valley Authority, Report No. WR28-2-590-152, October 1990	5,656
<b>041_Boggs, J.M., 1982.pdf</b> "Browns Ferry Nuclear Plant Low-Level Radwaste Storage Facility Groundwater Pathway Analysis," Tennessee Valley Authority, Report No. WR28-1-67-116, October 1982.	1,261
<b>042_Buchanan, J.P., 1990.pdf</b> Thermal variance monitoring for Browns Ferry Nuclear Plant, Wheeler Reservoir, 1987-1989. Tennessee Valley Authority, Water Resources, Aquatic Biology Department, Chattanooga, Tennessee. 20pp.	2,121
<b>043_Cada, G.F., 1990.pdf</b> A review of studies relating to the effects of propeller-type turbine passage on fish early life stages. North American Journal of Fisheries Management 10: 418-426.	6,064
<b>044_Carlson, R.E., 1977.pdf</b> A Trophic State Index of Lakes. Limnology and Oceanography, 22:361-369.	6,509
<b>045_Colaw, L.W. and B.B. Carroll, 1982.pdf</b> Mallard-Fox Mussel Survey Report. Unpublished Report, Tennessee Valley Authority, Fisheries and Ecology Branch, Division of Water Resources, Knoxville, Tennessee. 4p.	1,724
<b>046_Cowardin, L.M., et al, 1979.pdf</b> (Part 1 of 3) Classification of Wetland and Deepwater habitats of the United States. Washington, D.C.: U.S. Fish and Wildlife Publication FWS/OBS-79/31.	34,708
<b>047_Cowardin, L.M., et al, 1979.pdf</b> (Part 2 of 3) Classification of Wetland and Deepwater habitats of the United States. Washington, D.C.: U.S. Fish and Wildlife Publication FWS/OBS-79/31.	36,386
<b>048_Cowardin, L.M., et al, 1979.pdf</b> (Part 3 of 3) Classification of Wetland and Deepwater habitats of the United States. Washington, D.C.: U.S. Fish and Wildlife Publication FWS/OBS-79/31.	37,322
<b>049_Dey, W.P., 2003.pdf</b> Use of equivalent loss models under Section 316(b) of the Clean Water Act. Pages 247-263 in D. A. Dixon, J. A. Veil, and J. Wisniewski (Editors). Defining and assessing adverse environmental impact from power plant impingement and entrainment of aquatic organisms. A. A. Balkema Publishers, Lisse, The Netherlands. 291 pp.	8,283
<b>050_Dycus, D.L. and T.F. Baker, 2000.pdf</b> (Part 1 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs –1999. Tennessee Valley Authority, Water Management, Chattanooga, Tennessee.	44,390
<b>051_Dycus, D.L. and T.F. Baker, 2000.pdf</b> (Part 2 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs –1999. Tennessee Valley Authority, Water Management, Chattanooga, Tennessee.	45,135
<b>052_Dycus, D.L. and T.F. Baker, 2000.pdf</b> (Part 3 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs –1999. Tennessee Valley Authority, Water Management, Chattanooga, Tennessee.	49,911
<b>053_Dycus, D.L. and T.F. Baker, 2001.pdf</b> (Part 1 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs - 2000. Tennessee Valley Authority, Water Management, Chattanooga.	49,088

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CATEGORY 5: REFERENCE IN TVA'S ENVIRONMENTAL REPORT FOR BFN LICENSE RENEWAL (CONTINUED)	
FILE NAME	FILE SIZE (kilobytes)
<b>054_Dycus, D.L. and T.F. Baker, 2001.pdf</b> (Part 2 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs - 2000. Tennessee Valley Authority, Water Management, Chattanooga.	47,683
<b>055_Dycus, D.L. and T.F. Baker, 2001.pdf</b> (Part 3 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs - 2000. Tennessee Valley Authority, Water Management, Chattanooga.	48,949
<b>056_Environmental Laboratory, 1987.pdf</b> Corps of Engineers Wetland Delineation Manual, Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi.	1,383
<b>057_EPRI, 1983.pdf</b> Legionnaires' Disease Bacterium in Power Plant Cooling Systems: Phase I Final Report. June 1983.	3,665
<b>058_Floyd, K.B., 2003.pdf</b> Personal Communications, e-mail July 29.	496
<b>059_Flynn, K., 1991.pdf</b> Understanding Wetlands and Endangered Species: Definitions and Relationships. Alabama Cooperative Extension System, Circular ANR-979, Auburn University, Alabama.	338
<b>060_Garner, J.T., 1998.pdf</b> (Part 1 of 2) State Malacologist, Alabama Division of Wildlife and Freshwater Fisheries, Decatur, Alabama. Personal communication.	35,900
<b>061_Garner, J.T., 1998.pdf</b> (Part 2 of 2) State Malacologist, Alabama Division of Wildlife and Freshwater Fisheries, Decatur, Alabama. Personal communication.	36,813
<b>062_Garner, J.T., 2001.pdf</b> State Malacologist, Alabama Division of Wildlife and Freshwater Fisheries, Decatur, Alabama. Personal communication.	28
<b>063_Garner, J.T., 2002.pdf</b> State Malacologist, Alabama Division of Wildlife and Freshwater Fisheries, Decatur, Alabama. Personal communication.	1,403
<b>064_Garner, J.T., 2003.pdf</b> State Malacologist, Alabama Division of Wildlife and Freshwater Fisheries, Decatur, Alabama. Personal communication.	933
<b>065_Gooch, C.H., et.al., 1979.pdf</b> Recent Mollusk Investigations on the Tennessee River, 1978 Unpublished Report, Tennessee Valley Authority, Division of Environmental Planning, Muscle Shoals, Alabama, and Chattanooga, Tennessee. 126 p	40,289
<b>066_Harper, W.L., 2003.pdf</b> Near-Field Modeling of Thermal Discharge from Browns Ferry Nuclear Plant, email of model results to John M. Higgins, Tennessee Valley Authority, Reservoir System Operations and Environment, River Operations, December 2003.	142
<b>067_Heffner, J.M., et.al., 1994.pdf</b> (Part 1 of 2) Southeast Wetlands: Status and Trends, Mid-1970's to 1980's. U.S. Department of the Interior, Fish and Wildlife Service, Atlanta, Georgia.	28,530
<b>068_Heffner, J.M., et.al., 1994.pdf</b> (Part 2 of 2) Southeast Wetlands: Status and Trends, Mid-1970's to 1980's. U.S. Department of the Interior, Fish and Wildlife Service, Atlanta, Georgia.	38,018



## ENCLOSURE

CATEGORY 5: REFERENCE IN TVA'S ENVIRONMENTAL REPORT FOR BFN LICENSE RENEWAL (CONTINUED)	
FILE NAME	FILE SIZE (kilobytes)
<b>069_Henson, J.R. and R.J. Pryor, 1982.pdf</b> Browns Ferry Nuclear Plant - Proposed Barge Facility. Unpublished Report, Tennessee Valley Authority, Fisheries and Ecology Branch, Division of Water Resources, Knoxville, Tennessee. 4 p.	215
<b>070_Hickman, G.D., 2000.pdf</b> Sport Fish Index (SFI), A method to quantify sport fishing quality. Environmental Science & Policy 3 (2000) S1117-S125.	56
<b>071_Hickman, G.D., et.al., 1990.pdf</b> Density, movement patterns, and spawning characteristics of sauger ( <i>Stizostedion canadense</i> ) in Chickamauga Reservoir. Tennessee Valley Authority, Water Resources, Chattanooga, TN. 53pp.	10,007
<b>072_Higgins, J.M. and B.R. Kim, 1981.pdf</b> "Phosphorus Retention Models for Tennessee Valley Authority Reservoirs." Water Resources Research, Vol. 17, No. 3, pp. 571-576.	911
<b>073_Hutson, S.S., et.al., 2003.pdf</b> "Estimated Use of Water in the Tennessee River Watershed in 2000 and Projections of Water Use in 2030," U. S. Geological Survey, Water-Resources Investigation Report, Memphis, Tennessee, 2003.	3,497
<b>074_Julian, H.E., et al, 1993.pdf</b> NFERC Regional Groundwater Investigation, TVA Engineering Laboratory, Report No. WR28-1-520-191, Norris, Tennessee, April 1993.	8,616
<b>075_Koch, L.M., 1999.pdf</b> US Fish and Wildlife Service, Abingdon, Virginia (in Larry E. Goldman, Field Supervisor, US Fish and Wildlife Service, Daphne, Alabama, personal communication.	27
<b>076_Limestone Co. Comp Plan, 1985.pdf</b>	8,488
<b>077_Lowery, D.R. and W.L. Poppe, 1992.pdf</b> Thermal Variance Monitoring for Browns Ferry Nuclear Plant, Wheeler Reservoir, 1990-1991.	24,097
<b>078_Maceina, M.J., 1998.pdf</b> Analyses of the sauger fishery with simulated effects of a minimum size limit in the Tennessee Rive of Alabama. North American Journal of Fisheries Management 18:104-113.	6,598
<b>079_Massachusetts Instit. of Technology, 1973.pdf</b> The Mechanics of Submerged multiport Diffusers for Buoyant Discharges in Shallow Water. Gerhard Jirka and Donald R. F. Harleman. Report No. 169, March 1973.	8,799
<b>080_Nalepa, T.F. and D. Schloesser, 1993.pdf</b> Zebra Mussels: biology, impacts, and control. Lewis Publishers. pp. 217-225	3,454
<b>081_National Energy Policy, 2001.pdf</b> Report of the National Energy Policy Development Group to the President of the United States. ISBN 0-16-050814-2. May 16, 2001.	3,121
<b>082_Nichols, N., 2002.pdf</b> Personal communications, e-mails May 16 & 29.	2,234
<b>083_Parmalee, P.W. and Arthur Bogan, 1998.pdf</b> The Freshwater Mussels of Tennessee. The University of Tennessee Press / Knoxville, 1998. pp. 124 and 190.	4,705
<b>084_SERC, 2003.pdf</b> Regional Electricity Supply & Demand Projections (Energy Information Agency [EIA]-411). Annual Report of EIA-411 submittals (eventually provided to the U.S. Department of Energy). July 31, 2003.	617

## ENCLOSURE

LIST OF ATTACHED DOCUMENTS (CONTINUED)	
CATEGORY 5: REFERENCE IN TVA'S ENVIRONMENTAL REPORT FOR BFN LICENSE RENEWAL (CONTINUED)	
FILE NAME	FILE SIZE (kilobytes)
<b>085_Shiao, M.C., et.al., 1993.pdf</b> "Two-Dimensional Water Quality Modeling of Wheeler Reservoir," Report No. WR28-1-3-105, Tennessee Valley Authority, Resource Group, Engineering Services, Hydraulic Engineering, June 1993.	3,141
<b>086_Sinclair, R.M. and B.G. Isom, 1961.pdf</b> A preliminary report on the introduced Asiatic Clam Corbicula in Tennessee. Tennessee Stream Pollution Control Board, Tennessee Department of Public Health. v + 79 pp.	1,330
<b>087_Stolzenbach, K.D., 1975.pdf</b> "Estimation Of Water Temperature Increases In Wheeler Reservoir Caused By The Discharge Of Heated Water From Browns Ferry Nuclear Plant During Open Cycle Operation", Report by consulting engineer Keith Stolzenbach, February 1975.	238
<b>088_TVA Vital Signs Vol. 1, 1993.pdf</b>	8,430
<b>089_TVA Vital Signs Vol. 2, 1993.pdf</b>	6,698
<b>090_TVA, 1972a.pdf</b> Environmental Statement BFN Units 1, 2, and 3	14,576
<b>091_TVA, 1972b.pdf</b> Final Safety Analysis Report, 1972	981
<b>092_TVA, 1972c.pdf</b> "Prediction and Control Of Water Temperatures In Wheeler Reservoir During Operation Of The Browns Ferry Nuclear Plant", Tennessee Valley Authority Division of Water Control Planning, Engineering Laboratory, Browns Ferry Nuclear Plant Advance Report No. 14, May 1972.	2,456
<b>093_TVA, 1977a.pdf</b> "Two Techniques For Flow Routing With Applications To Wheeler Reservoir", Tennessee Valley Authority Division of Water Management, Water Systems Development Branch, Engineering Laboratory, Report No. 3-519, July 1977.	863
<b>094_TVA, 1977b.pdf</b> Water Quality and Biological Conditions in Wheeler Reservoir During Operation of Browns Ferry Nuclear Plant, January 1, 1976-December 31, 1976. Chattanooga, Tennessee: Division of Environmental Planning, Water Quality Branch.	106,003
<b>095_TVA, 1978a.pdf</b> (Part 1 of 2) Browns Ferry Nuclear Plant Preoperational Fisheries Resources Report. Division of Forestry, Fisheries, and Wildlife Development, Norris, Tennessee.	30,349
<b>096_TVA, 1978a.pdf</b> (Part 2 of 2) Browns Ferry Nuclear Plant Preoperational Fisheries Resources Report. Division of Forestry, Fisheries, and Wildlife Development, Norris, Tennessee.	21,426
<b>097_TVA, 1978b.pdf</b> (Part 1 of 2) Biological Effects of Intake-Browns Ferry Nuclear Plant. Volume 4: Effects of the Browns Ferry Nuclear Plant Cooling Water Intake on the Fish Populations of Wheeler Reservoir. Division of Forestry, Fisheries, and Wildlife Development, Norris, Tennessee.	36,266
<b>098_TVA, 1978b.pdf</b> (Part 2 of 2) Biological Effects of Intake-Browns Ferry Nuclear Plant. Volume 4: Effects of the Browns Ferry Nuclear Plant Cooling Water Intake on the Fish Populations of Wheeler Reservoir. Division of Forestry, Fisheries, and Wildlife Development, Norris, Tennessee.	21,937

**ENCLOSURE**

<b>CATEGORY 5: REFERENCE IN TVA'S ENVIRONMENTAL REPORT FOR BFN LICENSE RENEWAL (CONTINUED)</b>	
<b>FILE NAME</b>	<b>FILE SIZE (kilobytes)</b>
<b>099_TVA, 1980a.pdf</b> "Evaluation Of Predicted And Observed Effects For A 90°F Mixed Temperature Limit, Browns Ferry Nuclear Plant", Tennessee Valley Authority, March 1980	5,006
<b>100_TVA, 1980b.pdf</b> Fish Entrainment and Impingement at Browns Ferry Nuclear Plant, Wheeler Reservoir, Alabama, for the Years 1978 and 1979. Division of Water Resources, Fisheries and Aquatic Ecology Branch. Norris, Tennessee.	15,958
<b>101_TVA, 1983.pdf</b> "A Supplemental 316(a) Demonstration for Alternative Thermal Discharge Limits for Browns Ferry Nuclear Plant, Wheeler Reservoir, Alabama."	7,651
<b>102_TVA, 1986.pdf</b> "Analysis Of Browns Ferry Nuclear Operation With Four And Six Cooling Towers", Tennessee Valley Authority, Office Of Natural Resources And Economic Development, Division Of Air And Water Resources, Engineering Laboratory, Report No. WR28-2-67-122, June 1986.	241
<b>103_TVA, 1990.pdf</b> (Part 1 of 7) "Tennessee River and Reservoir System Operation and Planning Review", Tennessee Valley Authority, Report No. TVA/RDG/EQS-91/1, December 1990	29,883
<b>104_TVA, 1990.pdf</b> (Part 2 of 7) "Tennessee River and Reservoir System Operation and Planning Review", Tennessee Valley Authority, Report No. TVA/RDG/EQS-91/1, December 1990	45,392
<b>105_TVA, 1990.pdf</b> (Part 3 of 7) "Tennessee River and Reservoir System Operation and Planning Review", Tennessee Valley Authority, Report No. TVA/RDG/EQS-91/1, December 1990	48,333
<b>106_TVA, 1990.pdf</b> (Part 4 of 7) "Tennessee River and Reservoir System Operation and Planning Review", Tennessee Valley Authority, Report No. TVA/RDG/EQS-91/1, December 1990	25,170
<b>107_TVA, 1990.pdf</b> (Part 5 of 7) "Tennessee River and Reservoir System Operation and Planning Review", Tennessee Valley Authority, Report No. TVA/RDG/EQS-91/1, December 1990	46,335
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<b>109_TVA, 1990.pdf</b> (Part 7 of 7) "Tennessee River and Reservoir System Operation and Planning Review", Tennessee Valley Authority, Report No. TVA/RDG/EQS-91/1, December 1990	36,259
<b>110_TVA, 1993.pdf</b> "Two-Dimensional Water Quality Modeling of Wheeler Reservoir." Report No. WR28-1-3-105.	3,014
<b>111_TVA, 1995.pdf</b> (Part 1 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs -1994. Tennessee Valley Authority, Water Management, Chattanooga.	44,716
<b>112_TVA, 1995.pdf</b> (Part 2 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs -1994. Tennessee Valley Authority, Water Management, Chattanooga.	40,003

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<b>LIST OF FILES ON CD-ROM FOR BFN LICENSE RENEWAL (CONTINUED)</b>	
<b>CATEGORY 5: REFERENCE IN TVA'S ENVIRONMENTAL REPORT FOR BFN LICENSE RENEWAL (CONTINUED)</b>	
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<b>114_TVA, 1996.pdf</b> (Part 1 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs –1995. Tennessee Valley Authority, Water Management, Chattanooga.	45,963
<b>115_TVA, 1996.pdf</b> (Part 2 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs –1995. Tennessee Valley Authority, Water Management, Chattanooga.	37,161
<b>116_TVA, 1996.pdf</b> (Part 3 of 3) Aquatic Ecological Health Determinations for TVA Reservoirs –1995. Tennessee Valley Authority, Water Management, Chattanooga.	24,852
<b>117_TVA, 1998.pdf</b> Aquatic Ecological Health Determinations for TVA Reservoirs –1997. Tennessee Valley Authority, Water Management, Chattanooga.	5,165
<b>118_TVA, 1999a.pdf</b> Browns Ferry Nuclear Plant - National Pollutant Discharge Elimination System Permit Number AL 0022080 - Renewal Application.	10,081
<b>119_TVA, 1999b.pdf</b> (Part 1 of 2) "Browns Ferry Nuclear Plant (BFN) – Units 1, 2, and 3 – Updated Final Safety Analysis Report (UFSAR), Amendment 18." Tennessee Valley Authority, November 16, 1999.	35,450
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<b>121_TVA, 1999c.pdf</b> - News Release (October 25)	29
<b>122_TVA, 2000.pdf</b> (Part 1 of 3) "Aquatic Ecological Health Determinations for TVA Reservoirs 1999."	44,383
<b>123_TVA, 2000.pdf</b> (Part 2 of 3) "Aquatic Ecological Health Determinations for TVA Reservoirs 1999."	45,128
<b>124_TVA, 2000.pdf</b> (Part 3 of 3) "Aquatic Ecological Health Determinations for TVA Reservoirs 1999."	49,902
<b>125_TVA, 2000b.pdf</b> Request for Proposal for Distributor-Owned Peaking Capacity. August 29, 2000.	60
<b>126_TVA, 2000c.pdf</b> Request for Proposal for Firm Summer Peaking Capacity. August 30, 2000.	162
<b>127_TVA, 2001a.pdf</b> Green Power Switch Demands Exceeds Expectations	129
<b>128_TVA, 2001b.pdf</b> Regional Natural Heritage Database	143
<b>129_TVA, 2001c.pdf</b> Request for Proposal for Long-Term Baseload and Summer Peaking Capacity. January 16, 2001.	298
<b>130_TVA, 2003.pdf</b> Draft Supplemental Environmental Assessment, Browns Ferry Nuclear Plant Units 2 and 3 Extended Power Uprate Project, Limestone County, Alabama. Tennessee Valley Authority. Chattanooga, TN.	26,246

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<b>FILE NAME</b>	<b>FILE SIZE (kilobytes)</b>
<b>131_U.S. Fish and Wildlife Service, 1996.pdf</b> National List of Vascular Plant Species that Occur in Wetlands: 1996 National Summary.	1,717
<b>132_USDA, 1953.pdf</b> Soil Survey for Limestone County, Alabama	9,255
<b>133_USDA-NRCS, 1997.pdf</b> Oregon State University Information Services, Government Information Sharing Project. 1999. 1997 Census of Agriculture, Limestone County, Alabama. ( <a href="http://govinfo.library.orst.edu/">http://govinfo.library.orst.edu/</a> ).	886
<b>134_Yeager, B.L., 1987.pdf</b> Drainage-wide occurrence of the freshwater jellyfish <i>Crapedacusta sowerbyi</i> Lankester 1880, in the Tennessee River system. Brimleyana No. 13:91-98, July 1987.	2,516
<b>135_Yokely, P., Jr., 1998.pdf</b> Mussel study near Hobbs Island on the Tennessee River for Butler Basin Marina. Unpublished Report, prepared for MST Engineering, Decatur, Alabama. 2p.	953
<b>136_Zurawski, A., 1978.pdf</b> Summary Appraisals of the Nation's Ground-Water Resources-Tennessee Region: U.S. Geological Survey Professional Paper 813-L, 35 p.	4,287