Federal Energy Regulatory Commission
FERC Form No. 714 (2000)

Annual Electric Control and Planning Area Report

For the Year Ending December 31, 2002
FERC FORM NO. 714

Form Approved
OMB Numbers: 1902 - 0140
(Expires: 7-31-2000)

This report is mandatory under the Federal Power Act, and is a regulatory support requirement as provided by 18 C.F.R. §141.51. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. Information reported on the FERC Form No. 714 is not considered confidential. Questions concerning this report will be answered by: Ms. Sandy J. Russell (202) 502-8376 or form714@ferc.gov.

This form consists of: Part I, Identification and Certification; Part II, comprising Schedules 1 through 6; Part III, comprising Schedules 1 and 2; and Part IV, Notes. All respondents are to complete Parts I and IV. Part II is to be completed by each electric utility or group of electric utilities which operates a control area. Part III is to be completed by each electric utility or group of electric utilities which constitute a planning area and has an annual peak demand that is greater than 200 MW. An electric utility is a corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities within the United States for the generation, transmission, distribution, or sale of electric energy primarily for use by the public.

Public reporting burden for this collection of information is estimated to average 50 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Federal Energy Regulatory Commission, Office of the Chief Information Officer, CI-1, 888 First Street, N.E., Washington, DC 20426; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503. You shall not be penalized for failure to respond to this collection of information unless the collection of information displays a valid OMB control number.

List of Schedules

Federal Energy Regulatory Commission
FERC Form No. 714 (1999)

Annual Electric Control and Planning Area Report
For the Year Ending December 31, 2002

Part I - Schedule I. Identification and Certification

1. Respondent Identification:

   Code: **19876** Name: **Virginia Electric & Power Co.**

2. Respondent Type: (Please check appropriate box and fill in name)

   [✔] Part I: Control Area (Complete Parts I, II and IV)

   Control Area Name: **Virginia Electric & Power Co.**

   [✔] Part II: Planning Area (Complete Parts I, III and IV)

   Planning Area Name: **Virginia Electric & Power Co.**

3. Respondent Mailing Address:

   William L. Thompson
   Virginia Electric & Power Co.
   5000 Dominion Boulevard
   Glen Allen, Virginia 23060-6711

4. Contact Person:

   Name: **Carl J. Eng**
   Title: **Manager - Power Supply Engineering**
   Telephone #: **(804) 273 - 3305**

5. Certifying Official:

   Name: **William L. Thompson**
   Title: **Director – Bulk Power Operations**

   Signature: W. L. Thompson Date: **May 29, 2003**

Return Completed Form to: **Federal Energy Regulatory Commission**
Form No. 714
Room 8B-06
888 First Street, N.E.
Washington, DC 20426

Federal Energy Regulatory Commission Form FERC-714 (1999)	**Annual Electric Control and Planning Area Report** **For the Year Ending December 31, 2002**	Utility Code: 19876 Utility Name: Virginia Electric & Power Co

Part II - Schedule 1. Generating Plants Included in Reporting Control Area

(Use continuation sheets if needed)

Under the name of its operating electric utility, list all generating plants (1) within the respondent's control area which are controlled, metered or for which the required information is otherwise available to control area operators and (2) dynamically scheduled plants or units outside the control area. Specifically identify dynamically scheduled plants. Report only plant totals with generators in an operating or standby status. Provide totals for columns (d) and (e) as a last line. The total in column (d) should equal the value in column (c) on Schedule 2 for the month of the annual peak demand. The total in column (e) should equal the value in column (f) on Schedule 3 for the month of the annual peak demand. Any differences must be explained in a note. For specific guidelines, please refer to the attached Schedule 1 Instructions on pages 8.

Line No. (a)	Electric Utility Name (b)	Plant Name (c)	Plant Available Capability at the Hour of the Annual Peak Demand Based on Net Energy for Load (MW) (d)	Integrated Net Load on the Plant at the Hour of the Annual Peak Demand Based on Net Energy for Load (MW) (e)
1.	Virginia Electric & Power Company	Bremo 3	71	70
2.	Virginia Electric & Power Company	Bremo 4	156	158
3.	Virginia Electric & Power Company	Chesapeake 1	111	110
4.	Virginia Electric & Power Company	Chesapeake 2	111	111
5.	Virginia Electric & Power Company	Chesapeake 3	156	152
6.	Virginia Electric & Power Company	Chesapeake 4	217	222
7.	Virginia Electric & Power Company	Chesterfield 3	100	92
8.	Virginia Electric & Power Company	Chesterfield 4	166	158
9.	Virginia Electric & Power Company	Chesterfield 5	305	293
10.	Virginia Electric & Power Company	Chesterfield 6	658	610
11.	Virginia Electric & Power Company	Chesterfield 7	197	179
12.	Virginia Electric & Power Company	Chesterfield 8	200	175
13.	Virginia Electric & Power Company	Clover 1	441	425
14.	Virginia Electric & Power Company	Clover 2	441	425
15.	Virginia Electric & Power Company	Mount Storm 1	533	490
16.	Virginia Electric & Power Company	Mount Storm 2	533	518

Federal Energy Regulatory Commission
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Annual Electric Control and Planning Area Report
For the Year Ending December 31, 2002

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(Use continuation sheets if needed)

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17.	Virginia Electric & Power Company	Mount Storm 3	521	490
18.	Virginia Electric & Power Company	North Anna 1	925	928
19.	Virginia Electric & Power Company	North Anna 2	917	910
20.	Virginia Electric & Power Company	North Branch	74	68
21.	Virginia Electric & Power Company	Possum Point 1	74	0
22.	Virginia Electric & Power Company	Possum Point 2	69	0
23.	Virginia Electric & Power Company	Possum Point 3	101	99
24.	Virginia Electric & Power Company	Possum Point 4	221	224
25.	Virginia Electric & Power Company	Possum Point 5	786	675
26.	Virginia Electric & Power Company	Surry 1	810	814
27.	Virginia Electric & Power Company	Surry 2	815	813
28.	Virginia Electric & Power Company	Yorktown 1	159	158
29.	Virginia Electric & Power Company	Yorktown 2	167	157
30.	Virginia Electric & Power Company	Yorktown 3	818	748
31.	Virginia Electric & Power Company	Bath County	1260	1126
32.	Virginia Electric & Power Company	Gaston Hydro	225	145

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(Use continuation sheets if needed)

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33.	Virginia Electric & Power Company	Roanoke Rapids Hydro	99	48
34.	Virginia Electric & Power Company	Cushaw Hydro	2	2
35.	Virginia Electric & Power Company	North Anna Hydro	1	0
36.	Virginia Electric & Power Company	Chesapeake CT	144	0
37.	Virginia Electric & Power Company	Darbytown CT	288	225
38.	Virginia Electric & Power Company	Gravel Neck CT	329	149
39.	Virginia Electric & Power Company	Ladysmith 1	144	151
40.	Virginia Electric & Power Company	Ladysmith 2	144	153
41.	Virginia Electric & Power Company	Remington CT	576	583
42.	Virginia Electric & Power Company	Kitty Hawk CT	44	0
43.	Virginia Electric & Power Company	Lowmoor CT	60	0
44.	Virginia Electric & Power Company	Mount Storm CT	12	0
45.	Virginia Electric & Power Company	Northern Neck CT	64	0
46.	Virginia Electric & Power Company	Possum Point CT	78	75
47.	Virginia Electric & Power Company	Kerr Dam	0	98
48.	Carolina Power & Light	Kerr Dam	0	40

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49.	Allegheny Power	Bath County	0	670
50.	Birchwood	Birchwood Nug	238	232
51.	James River Cogeneration	Cogentrix Hopewell NUG	92	88
52.	Cogentrix of Virginia Leasing Corp.	Lake Kingman NUG	115	104
53.	Ogden Martin Fairfax	OMF NUG	63	78
54.	Hopewell Cogeneration L.P.	HCF NUG	337	221
55.	Cogentrix - Rocky Mount	Edgecombe NUG	114	115
56.	Panda – Rosemary	Rosemary NUG	165	158
57.	Virginia Electric & Power Co.	Bellmeade	230	207
58.	Virginia Electric & Power Co.	Hall Branch NUG	63	63
59.	Virginia Electric & Power Co.	Southampton NUG	63	62
60.	Virginia Electric & Power Co.	Polyester NUG	63	0
61.	Cogentrix of Richmond, Inc.	Spruance 1 NUG	116	114
62.	Cogentrix of Richmond, Inc.	Spruance 2 NUG	94	93
63.	Doswell, L.P.	Four Rivers 1 NUG	155	153
64.	Doswell, L.P.	Four Rivers NUG	760	574

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65.	Commonwealth Atlantic, L.P.	Elizabeth River NUG	312	201
66.	Meclklenburg Cogen.,L..P.	Buggs Island NUG	132	131
67.	Multitrade of Pittsylvania Co.,, L.P.	Hurt	80	80
68.	Westmoreland-Hadson Ptnrs.	Roanoke Valley 1	165	166
69.	Westmoreland-Hadson Ptnrs.	Roanoke Valley 2	44	44
70.	Gordonsville Energy, L. P.	South Anna 1	109	105
71.	Gordonsville Energy, L. P.	South Anna 2	109	106
72.	Weyerhaeuser Paper Co.	Weyerhaeuser 1	0	0
73.	Weyerhaeuser Paper Co.	Weyerhaeuser 2	0	0
74.	Weyerhaeuser Paper Co.	Weyerhaeuser 3	0	1
75.	Non-Utility Power Producers*	Various	158	177
		Totals	***18,100***	***17,010***

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Annual Electric Control and Planning Area Report
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Utility Code: 19876
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Part II - Schedule 2. Control Area Monthly Capabilities at Time of Monthly Peak Demand

The peak demand and other terms used in this schedue are defined in the attached instructions for Schedule 2, pages 9, 10, and 11. Please first read the instructions, then complete this Schedule. The value in column (c) for the month of the annual peak demand should equal the total in column (d) in Schedule 1. Any differences must be explained in a note.

		Net Capability at the Time of the Monthly Peak Demand, Based on Control Area Net Energy For Load (NEL)							
		Net Capability from Plants Reported on Schedule II					External to the Control Area Net Unit or Firm Capability (MW)		
			Unavailable Capability Due to:						
Line No. (a)	Month (b)	Available Capability (MW) (c)	Planned Outage and Derating (MW) (d)	Unplanned Outage and Derating (MW) (e)	Other Outage and Derating* (MW) (f)	Total (c + d + e + f) (MW) (g)	Available (MW) (h)	Not Available (MW) (i)	Total Capability (g + h + i) (MW) (j)
1	Jan	19,154	498	340	0	18,316	120	10	18,446
2	Feb	19,154	319	775	0	18,060	130	0	18,190
3	Mar	19,154	3,323	1,272	0	14,559	130	0	14,689
4	Apr	18,125	2,979	206	0	14,940	130	0	15,070
5	May	18,100	171	354	80	17,495	81	49	17,625
6	Jun	18,100	71	1,013	0	17,016	130	0	17,146
7	Jul	18,100	71	596	0	17,433	94	36	17,563
8	Aug	18,092	306	666	7	17,113	130	0	17,243
9	Sep	18,272	358	1,082	25	16,807	130	0	16,937
10	Oct	19,361	3,661	418	0	15,282	130	0	15,412
11	Nov	19,179	2,755	1,445	12	14,967	130	0	15,097
12	Dec	19,360	756	1,862	0	16,742	130	0	16,872

* Reductions in capability due to fuel supply problems, environmental restrictions, lack of transmission availability at a generating plant, etc.

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Annual Electric Control and Planning Area Report
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Utility Code: 19876
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Part II - Schedule 3. Control Area Net Energy for Load and Peak Demand Sources by Month

Enter the monthly "Net Energy for Load" which is the amount of energy that the control area requires internally including control area losses. The total in column (d) should equal the difference in the totals for columns (e) and (f) on Schedule 5. The value in column (f) for the month of the annual peak demand should equal the total in column (e) in Schedule 1. Any differences must be explained in a note. For detailed instructions and definitions, please refer to attached Schedule 3 Instructions on pages 11 and 12.

					Control Area Load Sources at Time of Control Area Monthly Peak Demand, Based on Net Energy For Load (NEL)					
Line No. (a)	Month (b)	Control Area Net Generation (MWh) (c)	Net Actual Interchange (MWh) (d)	Net Energy for Load (MWh) (c + d) (e)	Output of Generating Plants (MW) (f)	Unit or Firm Purchases (MW) (g)	Unit or Firm Sales (MW) (h)	Net Non-Firm & Inadvertent (MW) (i)	Monthly Peak Demand (MW) (f+g-h+i) (j)	Monthly Minimum Demand (MW) (k)
1	January	7,097,539	380,325	7,477,864	13,516	-13	0	110	13,613	6,236
2	February	6,172,507	337,776	6,510,283	14,350	-72	0	-90	14,188	6,667
3	March	6,135,572	535,224	6,670,796	12,527	-96	0	1,092	13,523	5,913
4	April	5,512,779	675,934	6,188,713	14,572	-105	0	-781	13,686	5,983
5	May	6,116,694	475,929	6,592,623	14,571	-29	0	-453	14,089	6,103
6	June	7,195,626	609,916	7,805,542	16,159	-122	0	-17	16,020	6,158
7	July	8,264,533	594,023	8,858,556	17,010	-98	0	172	17,084	6,854
8	August	8,154,305	630,263	8,784,568	17,338	-57	0	-509	16,772	6,756
9	September	6,396,693	764,611	7,161,304	15,770	-38	0	-272	15,460	6,351
10	October	5,795,789	862,875	6,658,664	12,849	0	0	879	13,728	6,062
11	November	5,746,615	917,212	6,663,827	11,602	-117	0	371	11,856	6,208
12	December	6,899,396	1,019,428	7,918,824	13,951	-127	0	374	14,198	7,330
	Totals	***79,488,048***	***7,803,516***	***87,291,564***						

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Annual Electric Control and Planning Area Report
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Part II - Schedule 4. Adjacent Control Area Interconnections

Identify on this schedule: each adjacent control area with which the respondent control area is interconnected in column (b), all the interconnection line or bus names with the adjacent control area in column (c), and the line or bus voltage in column (d). See Schedule 4 Instructions on page 12.

Line No. (a)	Name of Adjacent Control Area (b)	Control Area Interconnection Line or Bus Names (c)	Line or Bus Voltage (kV) (d)
1.	American Electric Power	Altavista - Leesville	138
2.		Altavista - Reusens	138
3.		Banister - E Danville	138
4.		Bearskin - Smith Mt.	138
5.		Bremo - Scottsville	138
6.		Cloverdale - Lexington	500
7.		Hinton - Fudge Hollow	138
8.		Skimmer	115-69
9.		Red Hill	115
10.	Allegheny Power System	Mt. Storm – Doubs	500
11.		Loudoun – Doubs	500
12.		Mt. Storm – Pruntytown	500
13.		Mt. Storm – Meadow Brook	500
14.		Morrisville - Meadow Brook	500
15.		Edinburg - Strasburg	138
16.		Gordonsville - Pratts	115
17.		N. Shenandoah Transformer	138 - 115
18.	Carolina Power & Light	Halifax - Person	230

Part II - Schedule 4. Adjacent Control Area Interconnections

Identify on this schedule: each adjacent control area with which the respondent control area is interconnected in column (b), all the interconnection line or bus names with the adjacent control area in column (c), and the line or bus voltage in column (d). See Schedule 4 Instructions on page 12.

Line No. (a)	Name of Adjacent Control Area (b)	Control Area Interconnection Line or Bus Names (c)	Line or Bus Voltage (kV) (d)
19.		Kerr Dam - Henderson	115
20.		Battleboro - Rocky Mount	115
21.		Hornertown - Rock Mount	230
22.		Edgecombe - Rocky Mount	230
23.		Everetts - Greenville	230
24.		Carson - Wake	500
25.	Pennsylvania - New Jersey - Maryland Group	Possum Pt. 500 - Burches Hill/Chalk Pt.	500
26.		Pleasant View - Dickerson	230

Federal Energy Regulatory Commission Form FERC-714 (1999)	**Annual Electric Control and Planning Area Report** **For the Year Ending December 31, 2002**	Utility Code: 19876 Utility Name: Virginia Electric & Power Co

Part II - Schedule 5
Control Area Scheduled and Actual Interchange

Identify on this schedule: each control area with which the respondent control area has actual or scheduled interchange of energy, in column (b); the total annual megawatthours (MWh) of the scheduled interchange that were received by the respondent control area through all interconnection points with each control area, in column (c); the MWh of scheduled interchange delivered to each control area, in column (d); the MWh of total annual actual interchange received and delivered within each **adjacent** control area, in columns (e) and (f). Provide totals for columns (c), (d), (e) and (f). The difference in the totals for columns (e) and (f) should equal the total in column (d) on Schedule 3. Any difference must be explained in a note. See Schedule 5 Instructions on pages 12 and 13.

Line No.	Name of Control Area	Scheduled Interchange Between Control Areas (MWh)		Actual Interchange Between Adjacent Control Areas (MWh)	
(a)	(b)	Received (c)	Delivered (d)	Received (e)	Delivered (f)
1.	American Electric Power System	9,023,175	167,860	5,262,818	540,256
2.	Carolina Power & Light Company	2,899,586	405,626	3,946,796	1,589,886
3.	Pennsylvania-New Jersey – Maryland Group	4,449,665	8,018,792	28,733,528	28,009,484
4.					
5.					
6.					
7.					
8.					
9.	***Totals***	***16,372,426***	***8,592,278***	***37,943,142***	***30,139,626***

Part II - Schedule 6. Control Area System Lambda Data

Submit on a 3.5 inch diskette or CD formatted for the DOS operating system the following data file in ASCII format: the control area's system lambda for each hour of the year starting with 1 a.m., January 1, 2002. Identify clearly the time zone in which this time series is made. The file should have 8760 records (8784 for leap years). Each record is to contain the system lambda value at the clock hour in dollars per megawatthour (mills per kilowatthour) or an "NA" for those hours when system lambda was not calculated.

Control Area Hourly System Lambda. For control areas where demand following is primarily performed by thermal generating units, the system lambda is derived from the economic dispatch function associated with automatic generation control performed at the controlling utility or pool control center. Excluding transmission losses, the fuel cost ($/hr) for a set of on-line and loaded thermal generating units (steam and gas turbines) is minimum [1] when each unit is loaded and operating at the same incremental fuel cost ($/MWh) [2] with the sum of the unit loadings (MW) equal to the system demand plus the net of interchange with other control areas. This single incremental cost of energy is the system lambda. System lambdas are likely recalculated many times in one clock hour. However, the indicated system lambda occurring on each clock hour would be sufficient for reporting purposes.

Provide, as a note in Part IV, an explanation describing the reason for the unavailability of system lambda information and a definite plan for reporting the information with a target date. The Commission expects that all Energy Management Systems, with proper instructions, can record the system lambda being used for economic dispatch of the control area's thermal units.

Respondents should be able to report system lambda, along with the other information reported on a control area basis, that describe the operation of such areas from information that should be readily available. The Commission is not requesting Respondents to develop incremental or marginal cost (either short or long term) according to any formula. Nor is the Commission requesting "avoided cost rates" that, pursuant to PURPA 210, electric utilities file with state commissions or otherwise make available for prospective qualified facilities.

Description of Economic Dispatch. Also, provide in writing a detailed description of how Respondent calculates system lambda. For those systems that do not use an economic dispatch algorithm and do not have a system lambda, provide in writing a detailed description of how control area resources are efficiently dispatched.

[1] Some utilities may also include variable operation and maintenance costs that they consider "dispatchable." Therefore the costs to be minimized could include a variable O&M component as well as the fuel costs.

[2] Because unit heat rates and fuel costs vary, some units may not be able to operate at the same incremental fuel cost as the other units and, thus, those units may be loaded differently.

Annual Electric Control and Planning Area Report
For the Year Ending December 31, 2002

Part III - Schedule 1. Electric Utilities That Compose the Planning Area

(Use continuation sheets if needed)

Enter the name of each entity, including the respondent, that forms the planning area for which this report is being prepared and their coincident summer and winter peak demands in megawatts. Please refer to Instructions on pages 23 and 24 .

		Electric Utility Coincident Peak Demand (MW)	
Line No. (a)	Electric Utility Name (b)	Summer (c)	Winter (d)
1.	Old Dominion Electric Cooperative (ODEC)	1,488.6	1,371.4
2.	Central Virginia Electric Cooperative (CVEC)	59.5	86.1
3.	NC Electric Membership Cooperative (NCEMC)	238.3	184.7
4.	Virginia Municipal Electric Association (VMEA)	204.7	159.1
5.	Craig – Botetourt Electric Cooperative (CBEC)	5.5	5.7
6.	Town of Enfield	7.7	5.8
7.	Town of Windsor	6.9	6.6
8.	Virginia Electric & Power Co.	15,072.8	12,378.6
9.	***Planning Area Totals***	***17,084.0***	***14,198.0***

Part III - Schedule 2.
Planning Area Hourly Demand and Forecast Summer and Winter Peak Demand and Annual Net Energy for Load

PLANNING AREA HOURLY DEMAND

(1) Respondents must submit hourly demand data in electronic form to the Commission. Additionally, Respondents that participate in a national, regional or subregional process for consolidating and ensuring the consistency and accuracy of actual hourly and forecast demand information, may instead authorize the national, regional or subregional organization to release that information to the Commission, and to the public at the cost of reproduction, in an easily accessible electronic format, such as the EEI format.

(2) If the Respondent does not participate in the development of national, regional or subregional actual and forecast demand information, it must submit its own, equivalent, demand information directly to the Commission along with this report, as follows.

Respondents must submit on a 3.5 inch diskette formatted for the DOS operating system the following data file in ASCII format: the planning area's actual hourly demand, in megawatts, for each hour of the year starting with 1 a.m., January 1, 2002. Indicate the time zone and the period for which daylight savings time was used*. The file should have 8760 records (8784 for leap years). For hours when this information is not available, enter "NA."

PLANNING AREA FORECAST SUMMER AND WINTER PEAK DEMAND

Provide on the diskette a file containing the planning area's forecast summer and winter peak demand, in megawatts, and annual net energy for load, in megawatthours, for the next ten years.

Federal Energy Regulatory Commission Form FERC-714 (1999)	**Annual Electric Control and Planning Area Report** **For the Year Ending December 31, 2002**	Utility Code: 19876 Utility Name: Virginia Electric & Power Co

Part IV.
Notes

Indicate a note by placing an asterisk (*) next to the entry on Schedules I through XV, and then provide the note below. For each note, enter the page number in Column (a), the line number in Column (b), the column letter in Column (c), and the Note in Column (d). Use more than one line if needed.

Page No. (a)	Line No. (b)	Column Letter (c)	Notes (d)
7	71	b,c,d,e	These are base-loaded non-utility generators within our control area. The control-area operator does not continuously monitor them; however, their input contributes to meeting our system energy load requirements.
13			Virginia Electric and Power Company calculates lambda for units on control once per hour according to FERC requirements. This time series is made in the Eastern time zone. 2002 System Lambda data is provided on the enclosed diskette (Lambda2002.txt). A discussion of Economic Dispatch (Calculation of System Lambda) is also included on this diskette (EconomicDispatch.doc).
15			Virginia Electric and Power Company is in the Eastern time zone. Daylight Savings Time for 2002 was observed from April 7 to October 27. The enclosed diskette contains actual hourly demand for 2002 (HourlyDemand2002.txt). Also included is the forecast of summer and winter peak control area demand (MW), as well as forecasted control area output, for the next ten (10) years (10YearDemandForecast.txt).
			Also included on the enclosed diskette is an electronic copy of Virginia Electric and Power Company's 2002 FERC Form 714 Filing (FERC 714 - 2002 Filing.zip).