SULLIVAN, MOUNTJOY, STAINBACK & MILLER PSC
ATTORNEYS AT LAW

Ronald M. Sullivan
Jesse T. Mountjoy
Frank Stainback
James M. Miller
Michael A. Fiorella
William R. Dexter
Allen W. Holbrook
R. Michael Sullivan
P. Marcum Willis
Bryan R. Reynolds
Mark G. Luckett
Tyson A. Kamuf
Mark W. Starnes

February 27, 2004

Federal Express

Thomas M. Dorman
Executive Director
Public Service Commission of KY
211 Sower Blvd., P.O. Box 615
Frankfort, KY 40602-0615

Re: Big Rivers Electric Corporation - In the Matter of: A Review of the Adequacy of Kentucky's Generation Capacity and Transmission System, Kentucky Public Service Commission, Administrative Case No. 387

Dear Mr. Dorman:

Enclosed are an original and ten copies of the responses of Big Rivers Electric Corporation to the continuing data requests in the above-styled matter. I certify that copies of this letter and attachments have been served upon each of the persons identified on the attached service list. Please feel free to contact me with any questions.

Sincerely yours,

James M. Miller

JMM/ej
Enclosures

cc: David Spainhoward
Bill Blackburn
Counsel of Record

Telephone (270) 926-4000
Telecopier (270) 683-6694

100 St. Ann Building
PO Box 727
Owensboro, Kentucky
42302-0727

SERVICE LIST
ADMINISTRATIVE CASE NO. 387

Hon. Kendrick R. Riggs
Ogden, Newell & Welch PLLC
1700 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202-2874

Michael Beer
Regulatory Affairs
Kentucky Utilities and
Louisville Gas and Electric Company
220 West Main Street
P. O. Box 32010
Louisville, KY 40232-2010

KENTUCKY UTILITIES AND LOUISVILLE GAS & ELECTRIC COMPANY

Hon. Patrick D. Pace
Kamuf, Yewell & Pace
221 West Second Street
Owensboro, Kentucky 42303

Stanley K. Conn
Director of Power Production
Owensboro Municipal Utilities
2070 Tamarack Road
P.O. Box 806
Owensboro, Kentucky 42301

CITY UTILITY COMMISSION OF THE CITY OF OWENSBORO, KENTUCKY
A/K/A OWENSBORO MUNICIPAL UTILITIES

Hon. Elizabeth E. Blackford
Assistant Attorney General
Office for Rate Intervention
1024 Capital Center Drive, Suite 200
Frankfort, KY 40601

Hon. Dennis G. Howard
Assistant Attorney General
1024 Capital Center Drive, Suite 200
Frankfort, KY 40601

KENTUCKY ATTORNEY GENERAL'S OFFICE

Hon. Robert A. Bowman
Hobson and Bowman
222 West Main Street
Frankfort, KY 40601

Jerry Deaton
Executive Director
Municipal Electric Power Association of Kentucky
110A East Todd Street
Frankfort, Kentucky 40601

MUNICIPAL ELECTRIC POWER ASSOCIATION OF KENTUCKY

Michael J. Pahutski
The Union Light Heat and Power Company
139 Eat Fourth Street
Cincinnati, Ohio 45202

James B. Gainer
Legal Division
The Union Light, Heat & Power Co.
139 E. 4th Street
Cincinnati, Ohio 45202

THE UNION LIGHT HEAT AND POWER COMPANY

Michael L. Kurtz, Esq.
David F. Boehm, Esq.
Boehm, Kurtz & Lowry
36 East Seventh Street, Suite 2110
Cincinnati, OH 45202

KENTUCKY INDUSTRIAL UTILITY CUSTOMERS, INC.

Frank N. King, Jr., Esq.
Dorsey, King, Gray & Norment
318 Second Street
Henderson, Kentucky 42420

Dean Stanley
President/CEO
Kenergy Corp.
P.O. Box 18
Henderson, Kentucky 42419

KENERGY CORP.

Hon. Peter J.P. Brickfield
BRICKFIELD, BURCHETTE, RITTS & STONE, P.C.
1025 Thomas Jefferson St., N.W.
8th Floor, West Tower
Washington, DC 20007

Hon. Richard S. Taylor
Attorney at Law
225 Capital Avenue
Frankfort, KY 40601

GALLATIN STEEL COMPANY

Robert L. Madison
5407 Baywood Drive
Louisville, KY 40241-1318

ROBERT L. MADISON

Hon. Iris Skidmore
Hon. Ronald P. Mills
NREPC
Office of Legal Services
Fifth Floor, Capital Plaza Tower
Frankfort, KY 40601

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET

Hon. Jeffrey L. Yost
JACKSON & KELLY, PLLC
P.O. Box 2150
Lexington, KY 40588-9945

Martin R. Bradshaw
Director of Legislative Affairs
Dynegy, Inc.
Suite 5800
1000 Louisiana Street
Houston, Texas 77002

DYNEGY, INC.

Charles A. Lile
Senior Corporate Counsel
East Kentucky Power Cooperative, Inc.
4775 Lexington Road
P.O. Box 707
Winchester, Kentucky 40392-0707

Roy M. Palk
President/CEO
East Kentucky Power Cooperative, Inc.
4775 Lexington Road
P.O. Box 707
Winchester, Kentucky 40392-0707

EAST KENTUCKY POWER COOPERATIVE, INC.

Hon. William H. Jones
Hon. Kimberly S. McCann
1544 Winchester Avenue
P.O. Box 1111
Ashland, KY 41105-1111

Hon. Richard S. Taylor
Attorney at Law
225 Capital Avenue
Frankfort, KY 40601

NORTH AMERICAN STAINLESS, L.P. AND KENTUCKY ELECTRIC STEEL, INC.

Hon. Winfrey P. Blackburn, Jr.
Hon. R. Douglas Burchett
Blackburn, Hundley & Domene, LLP
350 Starks Building
455 South Fourth Avenue
Louisville, KY 40202

THOROUGHBRED GENERATING COMPANY

Peter C. Brown
Director of Contract Administration
EnviroPower LLC
2810 Lexington Financial Center
250 West Main Street
Lexington, KY 40507

Joe Darguzas
Vice President for Engineering
and Project Management
EnviroPower LLC
2810 Lexington Financial Center
250 West Main Street
Lexington, Kentucky 40507

ENVIROPOWER

James R. Dalrymple
Program Support Manager
Transmission/Power Supply Group
Tennessee Valley Authority
1101 Market Street
Chattanooga, Tennessee 37402-2801

TENNESSEE VALLEY AUTHORITY

Hon. Mark R. Overstreet
Stites & Harbison
412 West Main Street
P.O. Box 634
Frankfort, KY 40602

Errol K. Wagner
Director of Regulatory Services
Kentucky Power Company
D/B/A American Electric Power
101A Enterprise Drive
P.O. Box 5190
Frankfort, Kentucky 40602

KENTUCKY POWER COMPANY D/B/A AMERICAN ELECTRIC POWER

COMMONWEALTH OF KENTUCKY
BEFORE THE
PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

A Review of the Adequacy of Kentucky's Generation Capacity and Transmission System	))))	**ADMINISTRATIVE CASE NO. 387**

BIG RIVERS ELECTRIC CORPORATION'S RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S REVIEW OF THE ADEQUACY OF KENTUCKY'S GENERATION CAPACITY AND TRANSMISSION SYSTEM FOR CALENDAR YEAR 2003–ADMINISTRATIVE CASE NO. 387 ORDER OF DECEMBER 20, 2001

March 1, 2004

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - ADMINISTRATIVE CASE NO. 387
ORDER DATED DECEMBER 20, 2001

Item 1-G) Actual and weather-normalized energy sales for the just completed calendar year. Sales should be disaggregated into native load sales and off-system sales. Off-system sales should be further disaggregated into full requirements sales, firm capacity sales, and non-firm or economy energy sales. Off-system sales shall be further disaggregated to identify separately all sales where the utility acts as a reseller, or transporter, in a power transaction between two or more other parties.

Response) Table # 1-G shows the native and off-system sales for 2003 and the further breakdowns as applicable to Big Rivers. Big Rivers supplies power to be used for back-up of the Weyerhaeuser cogeneration facility. However, this back-up power is received by Big Rivers through a separate back-up power supply agreement and is not included in Table # 1-G.

Please note that the "TOTAL NATIVE LOAD & OFF-SYSTEM ENERGY SALES" category in Table # 1-G represents energy associated with Big Rivers' power supply only. The category "LOAD NOT SERVED BY BIG RIVERS" represents additional energy that is on the Big Rivers' transmission system. The "Control Area" load is composed of energy provided by others to Kenergy Corp. for resale to the aluminum smelters as well as part of the load for the City of Henderson and Big Rivers acts as the "transporter" for control area load. In addition, Big Rivers acts as transporter for energy from Big Rivers' generators sold off-system by LG&E Energy Marketing. Big Rivers does not track megawatt hours for these transports.

Witness) C. William Blackburn
Travis D. Housley, P.E.
David G. Crockett, P.E.

Table #1G

BIG RIVERS ELECTRIC CORPORATION

	TOTAL NATIVE LOAD & OFF-SYSTEM ENERGY SALES (MWh)					LOAD NOT SERVED BY BIG RIVERS	
	Native Load		Off-System				
	Total Energy		Off-System Energy				
Month	Actual	Weather Normalized	Firm	Non-Firm	Reseller	Control Area Load	Wheeling
Jan-03	311,451	275,469	53,317	67,585	1,940	621,201	6,378
Feb-03	270,205	233,132	48,220	73,698	170	561,514	4,400
Mar-03	244,209	243,822	47,087	120,221	1,701	622,974	40,605
Apr-03	221,207	213,952	52,265	110,634	1,079	600,665	3,953
May-03	219,859	222,737	52,184	77,006	274	622,592	1,810
Jun-03	240,536	260,037	29,126	79,962	991	602,280	5,651
Jul-03	297,623	293,768	30,097	71,397	891	623,588	30,910
Aug-03	301,425	295,216	30,097	83,989	2,151	625,649	19,575
Sep-03	241,407	250,031	46,117	54,687	5,146	603,294	2,655
Oct-03	225,385	221,385	48,706	77,663	1,024	620,324	3,235
Nov-03	233,748	227,471	44,498	79,870	1,712	599,238	6,353
Dec-03	280,476	274,700	47,896	69,093	14,351	621,547	2,284
Total	3,087,530	3,011,717	529,612	965,803	31,430	7,324,866	127,809

Note 1: Big Rivers off-system sales are market blocks of power. Therefore, the off-system sales cannot be weather normalized.

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - ADMINISTRATIVE CASE NO. 387
ORDER DATED DECEMBER 20, 2001

Item 2-G) A summary of monthly power purchases for the just completed calendar year. Purchases should be disaggregated into firm capacity purchases required to service native load, economy energy purchases, and purchases where the utility acts as a reseller, or transporter, in a power transaction between two or more other parties.

Response) Table # 2-G show energy purchases, both firm and economy, which came through Big Rivers' Power Supply for 2003. Table # 2-G also shows additional energy purchased for the control area by others and it shows the quantity of wheeling for 2003.

Witness) C. William Blackburn
Travis D. Housley, P.E.
David G. Crockett, P.E.

TABLE # 2G

BIG RIVERS ELECTRIC CORPORATION

Month		Monthly Power Purchases by Big Rivers: Native Load Firm Capacity MWh	Economy Energy MWh	Resell Energy MWh	Load Not Served By Big Rivers: Control Area Load MWh	Wheeling MWh
Jan-03	January	311,451	119,124	1,940	73,905	6,385
Feb-03	February	270,205	120,918	170	72,237	4,400
Mar-03	March	244,209	165,346	1,701	28,580	41,308
Apr-03	April	221,207	157,508	1,079	23,719	3,998
May-03	May	219,859	128,532	274	50,409	1,810
Jun-03	June	240,536	109,226	991	64,190	5,651
Jul-03	July	297,623	101,729	891	37,584	31,376
Aug-03	August	301,425	114,220	2,151	61,619	19,775
Sep-03	September	241,407	100,511	5,146	36,267	2,655
Oct-03	October	225,385	127,054	1,024	17,365	3,251
Nov-03	November	233,748	124,618	1,712	37,807	6,433
Dec-03	December	280,476	116,728	14,351	49,993	2,290
	Total	3,087,530	1,485,515	31,430	553,675	129,332

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
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Item 3-G) Actual and weather-normalized monthly coincident peak demands for the just completed calendar year. Demands should be disaggregated into (a) native load demand (firm and non-firm) and (b) off-system demand (firm and non-firm).

Response) Table # 3-G shows the actual and weather normalized native load demand and the off-system coincident for 2003. Big Rivers sells its surplus power into the market and therefore the off-system sales cannot be weather normalized.

Please see the second paragraph of the response to # 1-G for additional explanation.

Witness) C. William Blackburn

TABLE # 3G

BIG RIVERS ELECTRIC CORPORATION

TOTAL NATIVE LOAD & OFF-SYSTEM COINCIDENT PEAK DEMANDS (MW)

Month	Native Load: All Firm Peak Demand: Actual	Native Load: All Firm Peak Demand: Weather Normalized	Off-System Sales: Off-System Demand: Firm	Off-System Sales: Off-System Demand: Non-Firm	Load Not Served By Big Rivers: Control Area Load	Load Not Served By Big Rivers: Off System Firm(OPC)
Jan-03	585	523	105	60	893	----
Feb-03	513	499	105	54	892	----
Mar-03	470	457	135	30	840	----
Apr-03	406	400	186	50	842	----
May-03	400	491	44	117	878	----
Jun-03	536	545	105	92	848	----
Jul-03	551	577	40	134	878	----
Aug-03	584	575	40	89	885	----
Sep-03	496	547	90	67	879	----
Oct-03	379	455	90	194	875	----
Nov-03	451	422	105	175	886	----
Dec-03	477	487	90	120	892	----

Note: Big Rivers off-system sales are market blocks of power. Therefore, the off-system sales cannot be weather normalized.

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
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Item 4-G) Load shape curves that slow actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just completed calendar year.

Response) Graph # 4-G shows the monthly native load demand with the monthly weather normalized native load demand for 2003. The total curve represents the native load demand plus the actual firm off-system sales.

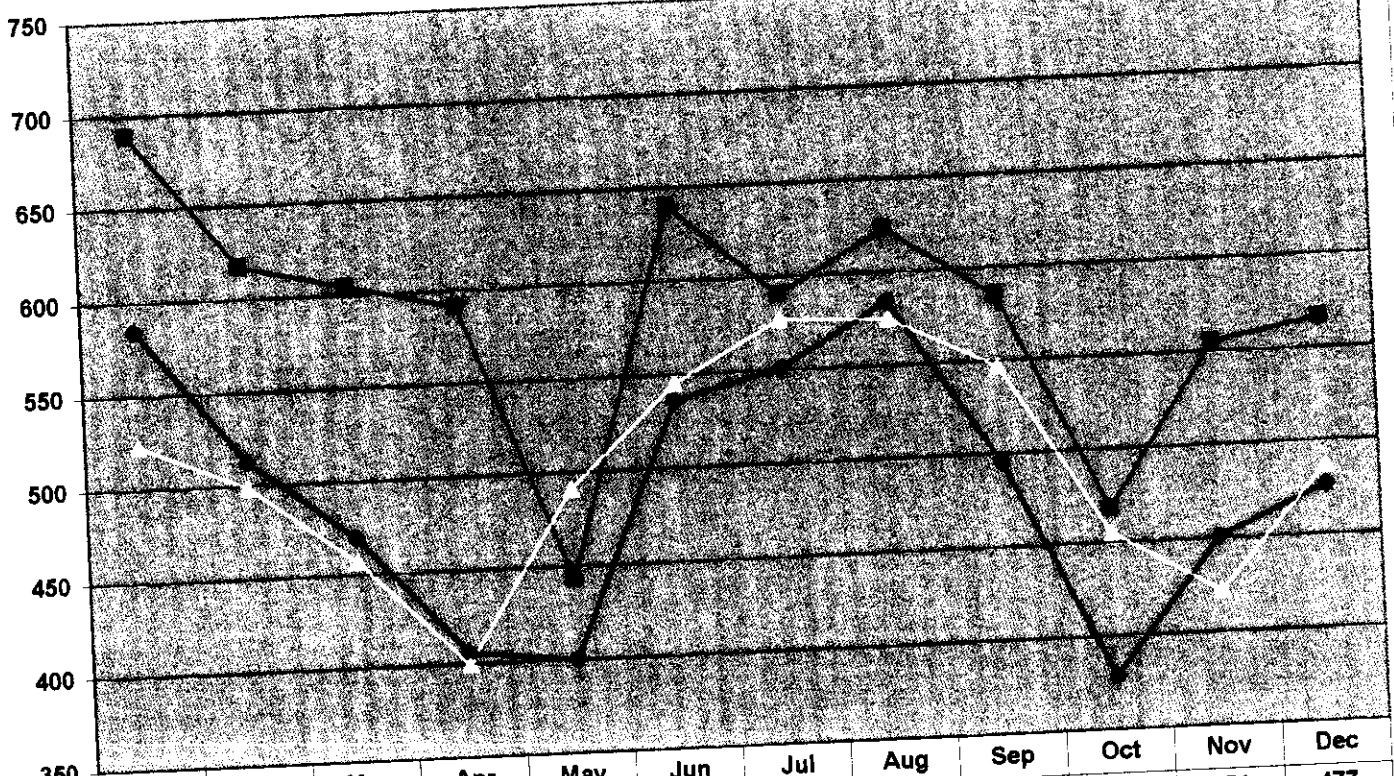
Please note that this graph represents power that comes through Big Rivers' power supply and does not represent the activity of others in the Big Rivers' control area. Big Rivers does not have the data to supply the remaining power for the control area.

Witness) C. William Blackburn
Travis D. Housley, P.E.
David G. Crockett, P.E.

Graph #4G

BIG RIVERS ELECTRIC CORPORATION

NATIVE AND TOTAL COINCIDENT PEAK DEMANDS (MW) - 2003



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Native Demand	585	513	470	406	400	536	551	584	496	379	451	477
Total Demand	690	618	605	592	444	641	591	624	586	469	556	567
Weather Normalized	523	499	457	400	491	545	577	575	547	455	422	487

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
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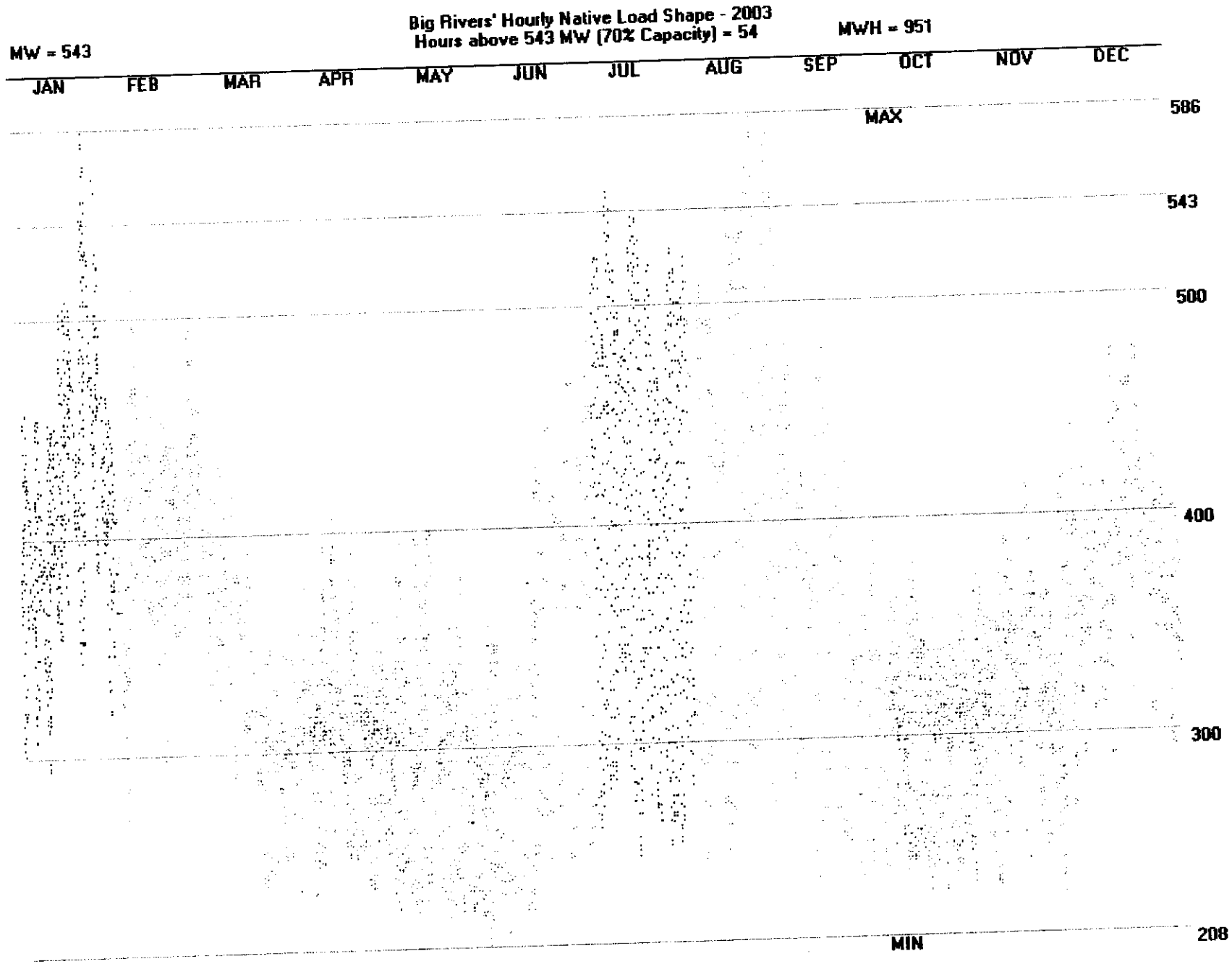
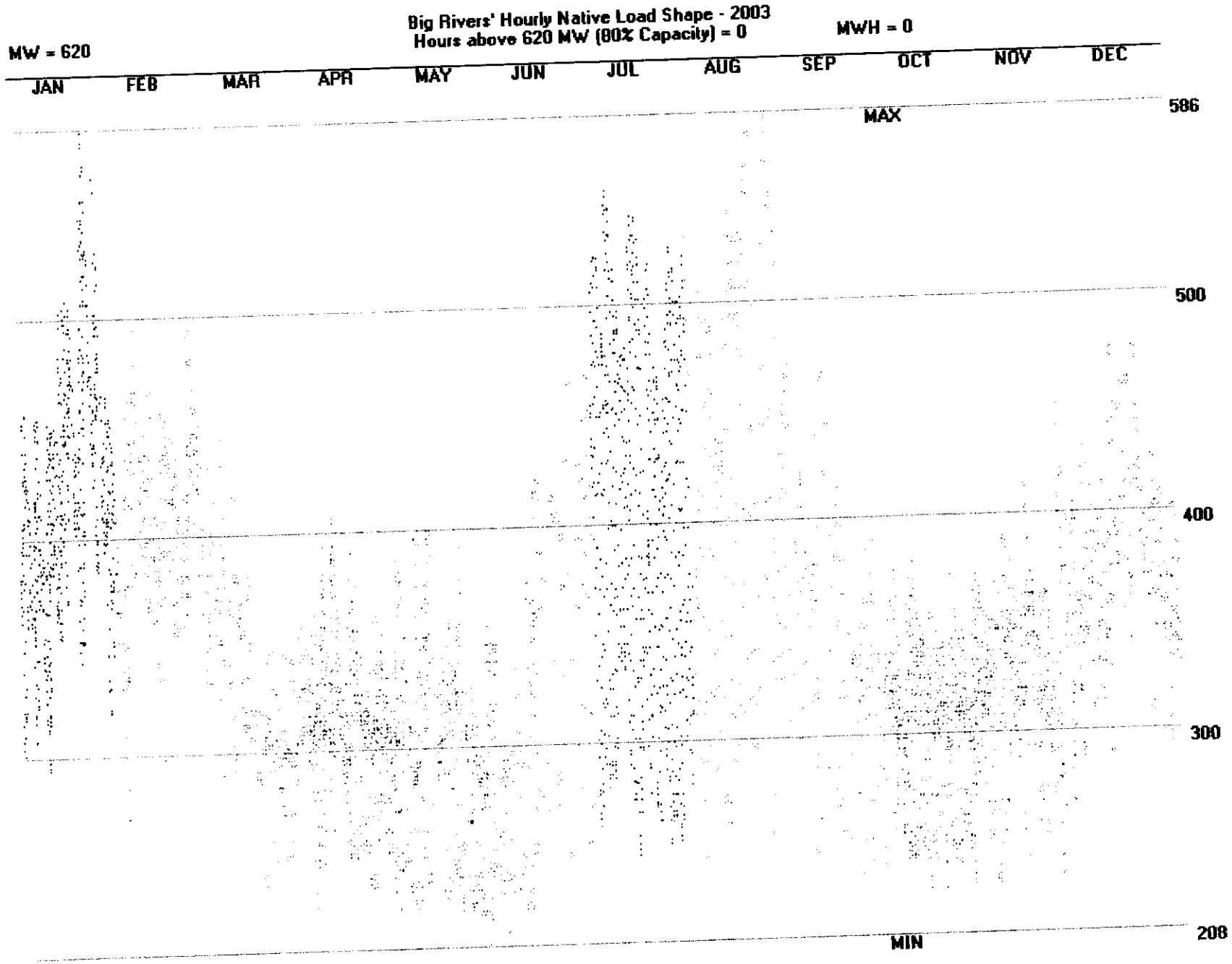
Item 5-G) Load shape curves showing the number of hours that native load demand exceeded these levels during the just completed calendar year: (1) 70% of the sum of installed generating capacity plus firm capacity purchases; (2) 80% of the sum of installed generating capacity plus firm capacity purchases; (3) 90% of the sum of installed generating capacity plus firm capacity purchases.

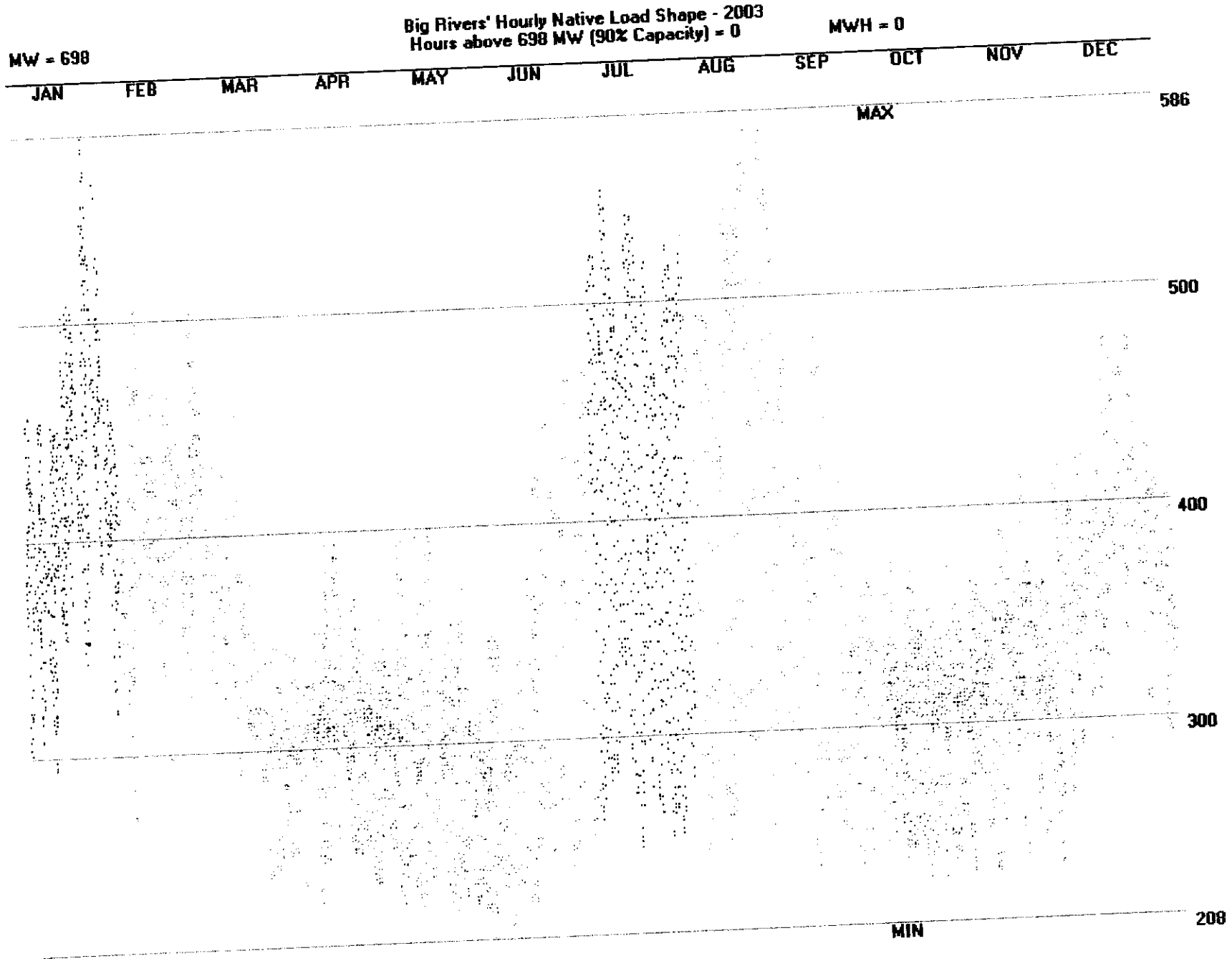
Response) Graphs, # 5-G-1, 5-G-2 and 5-G-3, show the hourly native load demand for 2003 with each dot representing the demand for that hour. They also show the lines representing 70%, 80% and 90% (respectively) of Big Rivers' total capacity. Big Rivers exceeded 70% of its capacity for a total of 54 hours during the year, which may be seen as all of the dots above the 543 line on the graph. At 80% and 90% of Big Rivers' capacity (620 MW and 698MW respectively), Big Rivers' maximum native load did not exceed either of those levels.

Please note that these graphs represent power that came through Big Rivers' power supply and does not represent the activity of others in the Big Rivers' control area. Big Rivers does not have the data to supply the remaining power for the control area.

Witness) C. William Blackburn


Big Rivers' Hourly Native Load Shape - 2003
Hours above 543 MW (70% Capacity) = 54
MW = 543
MWH = 951
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
MAX
586
543
500
400
300
208
MIN


Big Rivers' Hourly Native Load Shape - 2003
Hours above 620 MW (80% Capacity) = 0
MW = 620
MWH = 0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
MAX
586
500
400
300
208
MIN


Big Rivers' Hourly Native Load Shape - 2003
Hours above 698 MW (90% Capacity) = 0
MW = 698
MWH = 0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
MAX
586
500
400
300
208
MIN

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
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FOR CALENDAR YEAR 2003 – ADMINISTRATIVE CASE NO. 387
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Item 6-G) Based on the most recent demand forecast, the base case demand and energy forecasts and high case demand and energy forecasts for the current year and the following four years. The information should be disaggregated into (a) native load (firm and non-firm demand) and (b) off-system load (both firm and non-firm demand).

Response) Table # 6-G tabulates the forecasted base case and high case demand and energy in the associated demand breakdowns as requested. Big Rivers does not have any native non-firm demand.

Please note that this table represents power that came through Big Rivers' power supply and does not represent the activity of others in the Big Rivers' control area. Big Rivers does not have the data to supply the remaining power for the control area.

Witness) C. William Blackburn

TABLE # 6G

BIG RIVERS ELECTRIC CORPORATION

TOTAL NATIVE LOAD & OFF-SYSTEM LOADS
BASE & HIGH CASE FORECASTS

Year	Native Load				Off-System Sales*			
	Base Case		High Case		Base Case		High Case	
	Demand (MW)	Energy (MWh)	Demand (MW)	Energy (MWh)	FIRM Demand (MW)	NON-FIRM Demand (MW)	FIRM Demand (MW)	NON-FIRM Demand (MW)
2004	612	3,167,095	640	3,292,633	90	53	90	53
2005	623	3,215,084	650	3,341,928	85	30	85	30
2006	634	3,262,191	661	3,390,360	85	30	85	30
2007	644	3,316,135	673	3,445,723	50	0	50	0
2008	656	3,365,334	685	3,496,298	50	0	50	0

*The forecasted demand for off-system sales is assumed to be at the time of the native load coincident peak demand.

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
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Item 7-G) The target reserve margin currently used for planning purposes, stated as a percentage of demand. If changed from what was in use in 2001, include a detailed explanation for the change.

Response) When Big Rivers operated its own generation, a generation planning reserve margin was calculated using output data from statistical calculations for loss of load probabilities and loss of generation expectations for various outage states of the generators.

Big Rivers is now a unique utility in Kentucky because it leases all of its generation capacity and purchases most of its power requirements as liquidated damages firm (LD firm) power. Reserve margins are calculated from historical generator operating characteristics and various states of generator outages. Because Big Rivers' native load is now supplied with LD firm power from LG&E Energy Marketing and firm power from the Southeastern Power Administration. Because of this, Big Rivers has no formal planning reserve margin.

Witness) C. William Blackburn

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
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Item 8-G) Projected reserve margins stated in megawatts and as a percentage of demand for the current year and the following 4 years. Identify projected deficits and current plans for addressing these. For each year identify the level of firm capacity purchases projected to meet native load demand.

Response) Please see Response to # 7-G relative to reserve margins. Big Rivers has no projected deficits for the current year nor for the following 4 years. Big Rivers' level of firm capacity purchases for the next 4 years is 775 MW.

Witness) C. William Blackburn

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - ADMINISTRATIVE CASE NO. 387
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Item 9-G) By date and hour, identify all incidents during the just completed calendar year when reserve margin was less than the East Central Area Reliability Council's ("ECAR") 1.5% spinning reserve requirements. Include the amount of capacity resources that were available, the actual demand on the system, and their reserve margin, stated in megawatts and as a percentage of demand. Also identify system conditions at the time.

Response) The attached table lists the incidents as reported to ECAR, when the contingency spinning reserves in Big Rivers' control area was less than the required 1.5%. The table contains the available generation capacity, system demand, reserve margin, and system condition information as requested.

Witness) Travis D. Housley, P.E.
David G. Crockett, P.E.

Big Rivers Electric Corporation
Response to Item 9

2003 Month	Day	Hour CPT	Capacity Resources (MW)	System Demand (MW)	Reserve Margin (MW)	Reserve Margin (%)	System Conditions
October	14	14:00	1273	1269	+4	+0.3	Wilson 1 Forced Outage
April	8	21:00	1318	1309	+9	+0.7	Hend 1, PMO, Reid 1, Cole 2, Cole 3 & Hend 2 Forced Outage
April	3	20:00	1306	1292	+14	+1.1	Reid 1, PMO Hend 1, Cole 3, Forced Outage.
April	2	20:00	1308	1296	+12	+0.9	Reid 1, PMO Hend 1, Cole 3, Forced Outage.
March	31	20:00	1351	1334	+17	+1.3	Reid 1, Forced Outage. Hend 1, Cole 3, PMO
March	6	21:00	1426	1410	+16	+1.1	Coleman 3, PMO
March	5	20:00	1395	1392	+3	+0.2	Coleman 3, PMO
January	24	18:00	1472	1465	+7	+0.5	Hend 2 & Wilson 1, Forced Outage
January	24	07:00	1564	1559	+5	+0.3	Hend 2 & Wilson 1, Forced Outage
January	23	18:00	1535	1528	+7	+0.5	Cole 1, Cole 3, Hend 2 & Wilson 1, Forced Outage
January	23	07:00	1545	1544	+1	0	Cole 1, Cole 3, Hend 2 & Wilson 1, Forced Outage
January	22	19:00	1550	1540	+10	+0.6	Cole 1, Cole 3, Hend 2 & Wilson 1, Forced Outage
January	21	18:00	1448	1430	+18	+1.3	Forced Outage
January	14	18:00	1457	1438	+19	+1.3	Wilson 1 Forced Outage
January	14	19:00	1472	1455	+17	+1.2	Wilson 1 Forced Outage
January	8	18:00	1354	1343	+11	+0.8	Wilson 1 Forced Outage
January	6	20:00	1444	1436	+8	+0.6	Wilson 1 Forced Outage

Item 9-G
Page 2 of 2

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - CASE NO. 387
ORDER DATED DECEMBER 20, 2001

Item 10-G) A list identifying and describing all forced outages in excess of 2 hours in duration during the just completed calendar year.

Response) Big Rivers Electric Corporation entered into various agreements with Western Kentucky Energy Corp. ("WKE") and with WKE Station Two Inc. ("WKE Station Two") which require the two companies to operate and maintain Big Rivers' generating stations and Henderson Municipal Power and Light's Station Two generating stations respectively. The requested information cannot be provided by Big Rivers without written approval from WKE and WKE Station Two. Big Rivers is forwarding a copy of this response to Western Kentucky Energy Corp. and WKE Station Two Inc., Attention: Mr. Robert Toerne, Contract Manager, Western Kentucky Energy Corp., P.O. Box 1518, Henderson, KY, 42419-1518.

Witness) David Spainhoward

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - ADMINISTRATIVE CASE NO. 387
ORDER DATED DECEMBER 20, 2001

Item 11-G) A list that identifies scheduled outages or retirements of generating capacity during the current year and the following four years.

Response) Big Rivers Electric Corporation entered into various agreements with Western Kentucky Energy Corp. ("WKE") and with WKE Station Two Inc., ("WKE Station Two") which require the two companies to operate and maintain Big Rivers' generating stations and Henderson Municipal Power and Light's Station Two generating stations respectively. The requested information cannot be provided by Big Rivers without written approval from WKE and WKE Station Two. Big Rivers is forwarding a copy of this response to Western Kentucky Energy Corp. and WKE Station Two Inc., Attention: Mr. Robert Toerne, Contract Manager, Western Kentucky Energy Corp., P.O. Box 1518, Henderson, KY, 42419-1518. There are no retirements of generating capacity planned for the next four years nor has any capacity been retired in the last year.

Witness) David Spainhoward

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - ADMINISTRATIVE CASE NO. 387
ORDER DATED DECEMBER 20, 2001

Item 12-G) Identify all planned base load or peaking capacity additions to meet native load requirements over the next 10 years. Show the expected in-service date, size and site for all planned additions. Include additions planned by the utility, as well as those by affiliates, if constructed in Kentucky or intended to meet load in Kentucky.

Response) Big Rivers presently has no plans to make base load or peaking capacity additions to meet native load for the years 2004 through 2013.

Witness) C. William Blackburn

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - CASE NO. 387
ORDER DATED DECEMBER 20, 2001

Item 13-G) The following transmission energy data for the just completed calendar year and the forecast for the current year and the following four years:

a) Total energy received from all interconnections and generation sources connected to the transmission system.

b) Total energy delivered to all interconnections on the transmission system.

c) Peak load capacity of the transmission system.

d) Peak demand for summer and winter seasons on the transmission system.

Response) The attached four tables list the Big Rivers' transmission system energy, capacity and demand responses.

Witness) Travis D. Housley, P.E.
David G. Crockett, P.E.

Big Rivers Electric Corporation

Response to Item 13a

Transmission System Energy Received (MWh)

	Generation	Interconnections	Total
2003	11,190,322	3,682,979	14,873,301

Projected System Energy Received (MWh)

2004	15,000,000
2005	15,000,000
2006	15,000,000
2007	15,000,000
2008	15,000,000

Big Rivers Electric Corporation
Response to Item 13b

Transmission System Energy Delivered at Interconnections (MWh)

	Total
2003	4,284,682

Projected System Energy Delivered at Interconnection (MWh)

2004	4,250,000
2005	4,200,000
2006	4,150,000
2007	4,100,000
2008	4,050,000

Big Rivers Electric Corporation	
Response to Item 13c	
Transmission Peak Capacity (MW)	
2003	2035
Projected Transmission Peak Capacity (MW)	
2004	2035
2005	2035
2006	2035
2007	2035
2008	2035

Big Rivers Electric Corporation
Response to Item 13d

Transmission System Peak Demand (MW)

	Winter	Summer
2003	1741	1811

Projected System Peak Demand (MW)

	Winter	Summer
2004	1800	1850
2005	1800	1850
2006	1800	1850
2007	1800	1850
2008	1800	1850

BIG RIVERS ELECTRIC CORPORATION'S
RESPONSE TO THE KENTUCKY PUBLIC SERVICE COMMISSION'S
REVIEW OF THE ADEQUACY OF KENTUCKY'S
GENERATION CAPACITY AND TRANSMISSION SYSTEM
FOR CALENDAR YEAR 2003 - ADMINISTRATIVE CASE NO. 387
ORDER DATED DECEMBER 20, 2001

Item 14-G) Identify all planned transmission capacity additions for the next 10 years. Include the expected in-service date, size and site for all planned additions and identify the transmission need each addition is intended to address.

Response) The attached table lists Big Rivers' current ten-year transmission capacity addition plan. All the projects in this plan are for the purpose of meeting member cooperative load growth and if load patterns deviate from the current forecast, the plan will be correspondingly altered.

Witness) Travis D. Housley, P.E.
David G. Crockett, P.E.

BIG RIVERS ELECTRIC TRANSMISSION ADDITIONS, 2004 – 2013

Project Description	Notes
Year: 2004	
Falls of Rough – McDaniels 69 kV Line (7 miles)	Up-grading infrastructure to meet system load growth
Hardinsburg # 1 RCS	Up-grading infrastructure to meet system load growth
Meade County Substation 161 kV Interconnection	Support for radial fed Substation
Crossroads Substation 161/69 kV (20 MVA)	New Substation to replace temporary facilities
Reid EHV, Coleman EHV, Wilson EHV RTU	Equipment replacement
6GHz Microwave System Digital Radios	Equipment replacement
Bryan Road Transformer Addition (SOMUA)	Up-grading infrastructure to meet system load growth
Year: 2005	
Hardinsburg 161 kV Substation Modification	Increase Substation operational flexibility
Possum Trot 69 kV Tap/Metering	Member Substation tap line and metering
McCracken Co. – Olivet Church 69 kV Line (4 miles)	Up-grading infrastructure to meet system load growth
Livingston Co. & McCracken Co. RTU	Equipment replacement
Re-Sag Hardinsburg – Fordsville Tie (1 mile)	Additional line capacity for load growth
Re-Sag Livingston Co. - Smithland (5.3 miles)	Additional line capacity for load growth
Henderson Co. – Newman 161 kV Line (13 miles)	Up-grading infrastructure to meet system load growth
Henderson Co. – 161 kV Line Terminal	Up-grading infrastructure to meet system load growth
Newman 161 kV Line Terminal	Up-grading infrastructure to meet system load growth

BIG RIVERS ELECTRIC TRANSMISSION ADDITIONS, 2004 – 2013

Project Description	Notes
Year: 2006	
Hardinsburg Transformer Upgrades (100 MVA)	Up-grading infrastructure to meet system load growth
Hopkins Co. & Skillman RTU	Equipment replacement
Re-conductor Reid – Niagara to 336 MCM (6 miles)	Up-grading infrastructure to meet system load growth
Re-conductor Corydon – Geneva to 336 MCM (6 miles)	Up-grading infrastructure to meet system load growth
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering
Year: 2007	
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering
Year: 2008	
East Owensboro Substation (50 MVA)	New Substation to meet system load growth
East Owensboro 69 kV and 161 kV Lines (5 miles)	Transmission lines to connect new Substation
Relaying PLC at Reid (2), Henderson & Daviess Co.	Equipment replacement
Re-conductor Henderson Co. – Zion tap (1.6 miles)	Up-grading infrastructure to meet system load growth
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering

BIG RIVERS ELECTRIC TRANSMISSION ADDITIONS, 2004 – 2013

Project Description	Notes
Year: 2009	
Relaying PLC at Henderson Co., Coleman, Hardinsburg(2), & Skillman	Equipment replacement
Re-conductor Meade Co. – Garrett (8.5 miles)	Up-grading infrastructure to meet system load growth
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering
Year: 2010	
Hancock Co. Transformer Upgrades (100 MVA)	Up-grading infrastructure to meet system load growth
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering
Year: 2011	
Corydon 161/69 kV Substation (50 MVA)	New Substation to meet system load growth
HMP&L #4 161 kV Line Terminal	Transmission Line to connect new Substation
Corydon-HMP&L #4 161 kV Line (9 miles)	Transmission Line to connect new Substation
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering
Year: 2012	
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering
Year: 2013	
Co-op Substation 69 kV Line (2 miles)	Member Substation tap line and metering