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Jeff D. Cline, Manager – Annual Report Branch
Public Service Commission of Kentucky
Filings Division
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40602-0615

Louisville Gas and
Electric Company
State Regulation and Rates
220 West Main Street
PO Box 32010
Louisville, Kentucky 40232
www.lge-ku.com

Robert M. Conroy
Director - Rates
T 502-627-3324
F 502-627-3213
robert.conroy@lge-ku.com

April 9, 2014

Re: Annual Resource Assessment Filing for Louisville Gas and Electric Company Pursuant to Administrative Case No. 387

Dear Mr. Cline:

Enclosed, in accordance with Ordering Paragraph (2) of the Commission's Order in Administrative Case 387, dated October 7, 2005, are an original and five (5) copies of the 2013 Annual Resource Assessment Filing for Louisville Gas and Electric Company, along with a Petition for Confidential Protection regarding certain information provided in response to Item Nos. 11 and 14.

Sincerely,

Robert M. Conroy

Enclosures

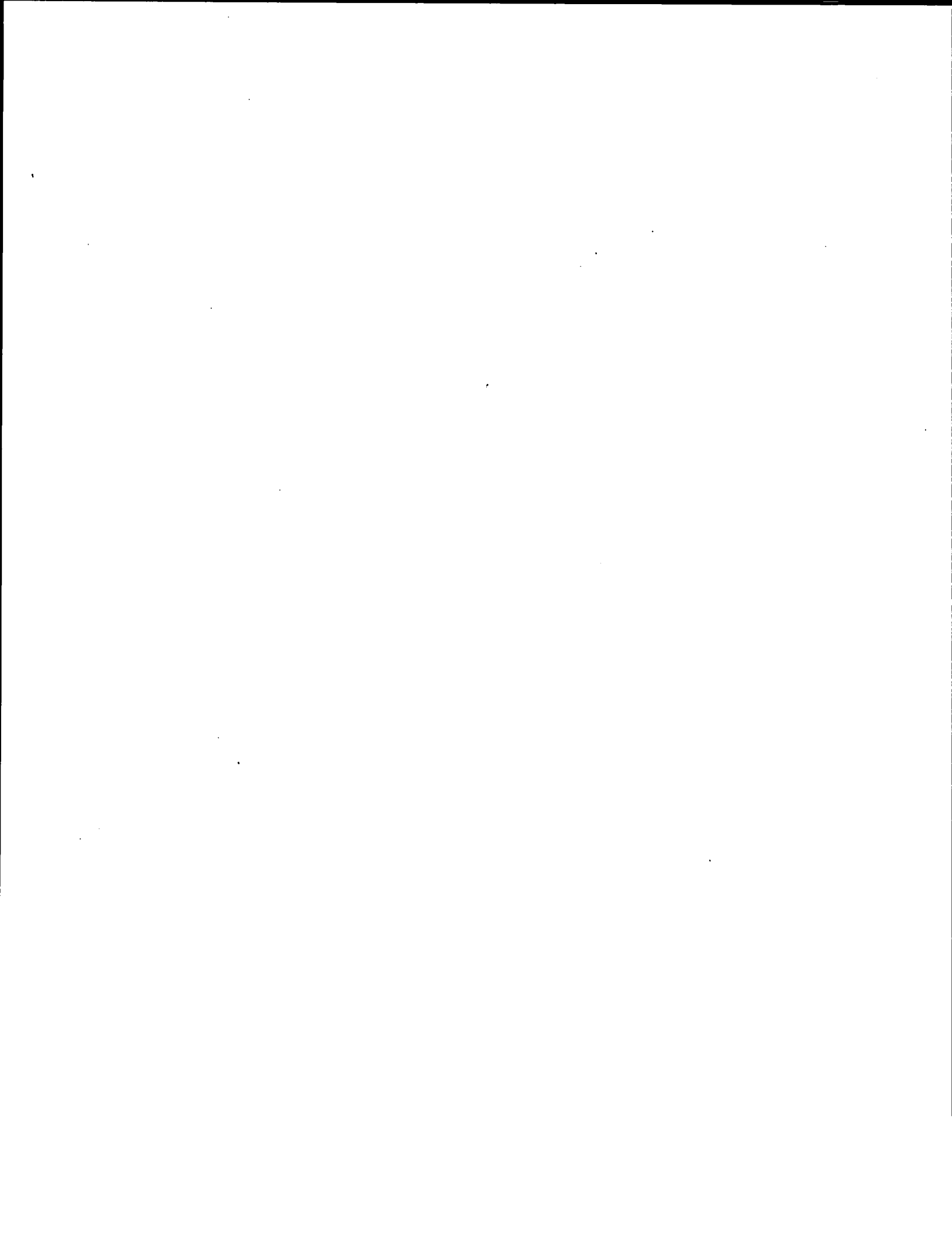
COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

A REVIEW OF THE ADEQUACY OF)	
KENTUCKY'S GENERATION CAPACITY)	ADMINISTRATIVE
AND TRANSMISSION SYSTEM)	CASE NO. 387

2013 ANNUAL RESOURCE ASSESSMENT FILING
OF
LOUISVILLE GAS AND ELECTRIC COMPANY
PURSUANT TO APPENDIX G
OF THE COMMISSION'S ORDER
DATED DECEMBER 20, 2001
AS AMENDED BY THE
COMMISSION'S ORDER
DATED MARCH 29, 2004

FILED: APRIL 2014



LOUISVILLE GAS AND ELECTRIC COMPANY

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ITEM NO. 1

The information originally requested in Item 1 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.

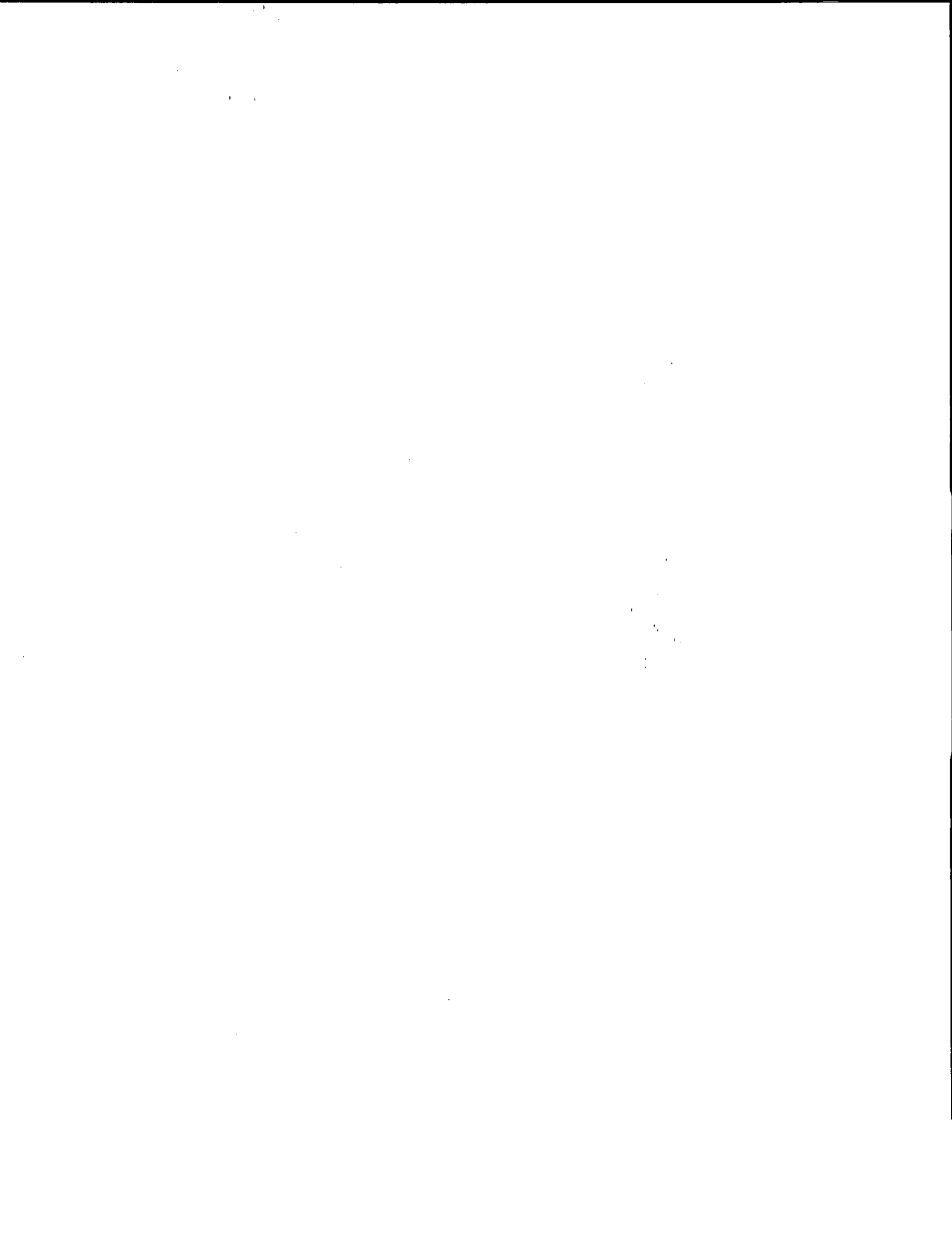


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ITEM NO. 2

The information originally requested in Item 2 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.



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ITEM NO. 3

RESPONDENT: Greg Lawson/Stuart Wilson

3. 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:

Please refer to the attached Table LGE-3, which shows the actual and weather-normalized native LGE peak demands. The normalized native LGE stand alone peak demands are available only on a seasonal (summer/winter) basis.

**TABLE LGE-3
NATIVE AND OFF-SYSTEM DEMANDS BY MONTH FOR 2013**

Louisville Gas & Electric Co.

Time of Monthly Native Peak	Actual			Normal Weather (Seasonal)	Off-System (1)		
	Native Peak	Non-Firm	Firm	Native Peak	Firm	Non-Firm	Total
1/22/2013 19:00	1,784	0	1,784	1,789	0	304	304
2/1/2013 10:00	1,715	0	1,715		0	100	100
3/21/2013 7:00	1,631	0	1,631		0	0	0
4/10/2013 16:00	1,679	0	1,679		0	0	0
5/30/2013 14:00	2,198	0	2,198		0	214	214
6/12/2013 15:00	2,441	0	2,441		0	100	100
7/18/2013 13:00	2,494	0	2,494		0	0	0
8/28/2013 16:00	2,514	0	2,514		0	0	0
9/10/2013 15:00	2,529	0	2,529	2,573	0	460	460
10/4/2013 15:00	1,989	0	1,989		0	151	151
11/27/2013 18:00	1,639	0	1,639		0	300	300
12/10/2013 18:00	1,762	0	1,762		0	105	105

Notes

(1) The allocation of off-system sales split between LG&E and KU is handled in the After-the-Fact Billing ("AFB") process in accordance with the Power Supply System Agreement between LG&E and KU. The individual company sales will include an allocation of the sales sourced with purchased power and allocated to the individual company based on each company's contribution to off-system sales.

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ITEM NO. 4

RESPONDENT: Greg Lawson

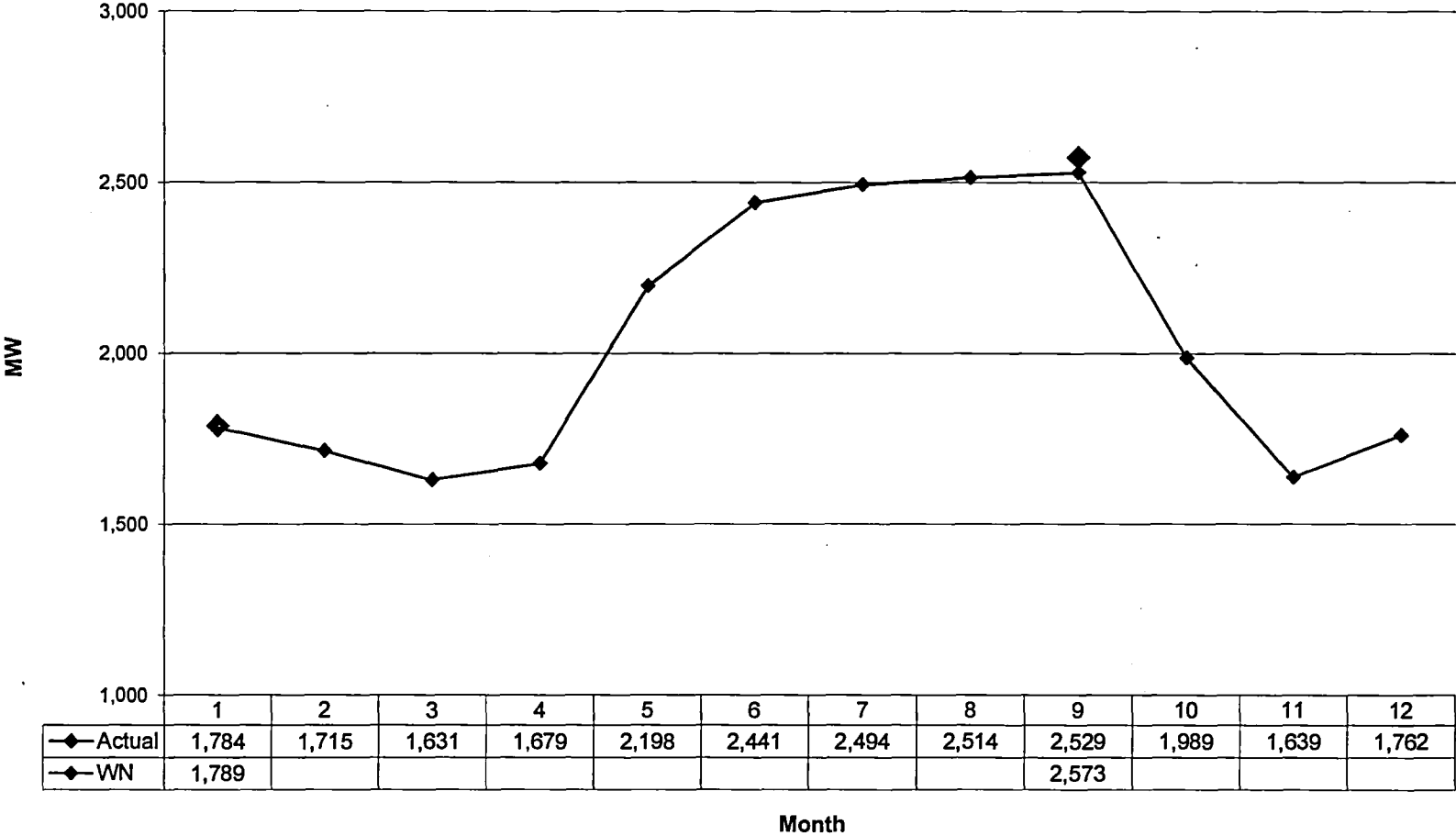
4. Load shape curves that show actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just completed calendar year.

Response:

Please refer to the attached Figure LGE-4.

Figure LGE-4

**LG&E 2013
Actual and Weather Normalized Seasonal Peak**



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ITEM NO. 5

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ITEM NO. 6

RESPONDENT: Greg Lawson/Stuart Wilson

6. 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:

- a) Please see the attached Table LGE-6a. The values in Table LGE-6a reflect the impact of the Companies' Energy Efficiency programs.
- b) Off-system sales ("OSS") projections for 2014-2018 contained in the attached Table LGE-6b are based on the combined Companies' current plan. For OSS, only base case total sales energy projections exist for 2014-2018. The projections consist of the expected market sales, dubbed "Wholesale OSS". All OSS are non-firm.

Table LGE-6a

Louisville Gas & Electric

	2014	2015	2016	2017	2018
Base Case Energy Sales (GWh)	11,908	11,985	12,077	12,148	12,253
High Case Energy Sales (GWh)	12,327	12,388	12,471	12,543	12,655
Base Case Energy Requirements (GWh)	12,594	12,679	12,776	12,853	12,961
High Case Energy Requirements (GWh)	13,038	13,105	13,193	13,271	13,386
Base Case Native Peak Demand (MW)	2,655	2,679	2,693	2,720	2,737
High Case Native Peak Demand (MW)	2,749	2,769	2,781	2,808	2,827

Table LGE-6b
Total Base Case Off-System Sales Energy Projection

	2014	2015	2016	2017	2018
Existing OSS (GWH)	0	0	0	0	0
Wholesale OSS (GWH)	273	199	184	207	370
Total OSS (GWH)	273	199	184	207	370

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ITEM NO. 7

RESPONDENT: Stuart Wilson

7. The target reserve margin currently used for planning purposes, stated as a percentage of demand. If changed from what was in use in 2013, please include a detailed explanation for the change.

3

Response:

The reserve margin analysis is being performed as part of the 2014 Integrated Resource Plan ("2014 IRP"), to be filed with the Commission in April 2014. Please refer to this document for this information when it becomes available.

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ITEM NO. 8

RESPONDENT: Stuart Wilson

8. 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:

The reserve margin analysis is being performed as part of the 2014 Integrated Resource Plan ("2014 IRP"), to be filed with the Commission in April 2014. Please refer to this document for this information when it becomes available.

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ITEM NO. 9

The information originally requested in Item 9 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.



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ITEM NO. 10

The information originally requested in Item 10 of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.

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ITEM NO. 11

RESPONDENT: Stuart Wilson

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

Response:

The planned maintenance outage schedule for 2014 through 2018 is being provided pursuant to a Petition for Confidential Protection. The schedule is regularly modified based on actual operating conditions, forced outages, changes in the schedule required to meet environmental compliance regulations, fluctuations in wholesale prices, and other unforeseen events.

Cane Run 4, 5, and 6 will be retired upon the commissioning of Cane Run 7, which is scheduled for May 2015.

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ITEM NO. 12

RESPONDENT: Stuart Wilson

12. 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:

The Companies are constructing a 640 MW 2x1 natural gas combined cycle ("NGCC") unit at their Cane Run site ("Cane Run 7" or "CR7") to be online in 2015. In January 2014, the Companies submitted an application for Certificates of Public Convenience and Necessity to the Kentucky Public Service Commission for the construction of (a) a 10 MW solar photovoltaic ("PV") facility at the E.W. Brown station in 2016 and (b) an approximately 700 MW NGCC unit at the Green River station in 2018. Cane Run 7 and the proposed solar PV and NGCC facilities complete the Companies' expansion plan through 2018. The analysis to update the Companies' expansion plan beyond 2018 is being performed as part of the 2014 Integrated Resource Plan ("2014 IRP"), to be filed with the Commission in April 2014. Please refer to this document for this information when it becomes available.

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ITEM NO. 13

RESPONDENT: Derek Rahn

13. 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:

Data exists for 2013. The Company does not forecast this type of data; therefore no forecast exists for 2013-2016.

- a. LG&E and KU operate as a single NERC Control area that contains several generators not owned by LG&E and KU; the non-Company owned facilities are also included as sources below:

Tie Lines Received (MWH)	17,216,232
Net Generation-LG&E (MWH)	15,480,864
Net Generation-KU (MWH)	20,797,236
Net Received from OMU (MWH)	2,815,316
Net Generation-IPPs (MWH)	<u>2</u>
Total Sources (MWH)	56,309,650

- b. LG&E and KU operate as a single Control Area, the amount of energy delivered at the interconnections of the single Control area were 19,731,229 MWH(s).
- c. There is no set number for peak load capacity for the transmission system. The system is built to support Network Service and firm PTP customers as tested under the LGE/KU Transmission Planning Guidelines. Actual transmission capacity available for Network customers, import, export or thru-flow will vary depending on which facilities (generation, load or transmission) in the interconnected transmission system of the eastern interconnect are connected and operated at any given time.
- d. The maximum summer peak transmission load for the combined LG&E/KU transmission system was 6747 MW for the peak hour of 9/10/13 at 3PM.

The maximum winter peak transmission load for the combined LG&E/KU transmission system was 6129 MW for the peak hour of 2/1/13 at 9AM.

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ITEM NO. 14

RESPONDENT: Delyn Kilpack

14. 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 response to this item is being provided pursuant to a Petition for Confidential Protection.