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April 25, 2014

Mark R. Overstreet
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HAND DELIVERED

Jeff R. Derouen
Executive Director
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602-0615

RE: Case No. 2013-00475

Dear Mr. Derouen:

Enclosed please find and accept for filing the original and ten copies of the Company's responses to Staff's April 16, 2014 informal conference data request, and the Company's responses to Sierra Club's April 16, 2014 informal conference data requests.

Copies of the responses and the motion are being served by as indicated on the persons listed below.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Mark R. Overstreet', is written over a large, hand-drawn oval scribble.

Mark R. Overstreet

MRO

cc: Michael L. Kurtz (overnight delivery)
Kristin Henry (electronic transmission per request)
Shannon Fisk (electronic transmission per request)
Joe F. Childers (electronic transmission per request)

RECEIVED

APR 25 2014

**PUBLIC SERVICE
COMMISSION**

COMMONWEALTH OF KENTUCKY

BEFORE THE

PUBLIC SERVICE COMMISSION OF KENTUCKY

IN THE MATTER OF

INTEGRATED RESOURCE PLANNING REPORT)
OF KENTUCKY POWER COMPANY TO THE) Case No. 2013-00475
KENTUCKY PUBLIC SERVICE COMMISSION)

**KENTUCKY POWER COMPANY RESPONSE TO
COMMISSION STAFF'S DATA REQUEST FROM
APRIL 16, 2014 INFORMAL CONFERENCE**

April 25, 2014

VERIFICATION

The undersigned, Will K. Castle, being duly sworn, deposes and says he is the Director Resource and DSM Planning for American Electric Power, that he has personal knowledge of the matters set forth in the forgoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge and belief

Will K Castle

Will K. Castle

STATE OF OHIO

)

) Case No. 2013-00475

COUNTY OF FRANKLIN

)

Subscribed and sworn to before me, a Notary Public in and before said County and State by Will K. Castle, this the 21 day of April 2014.

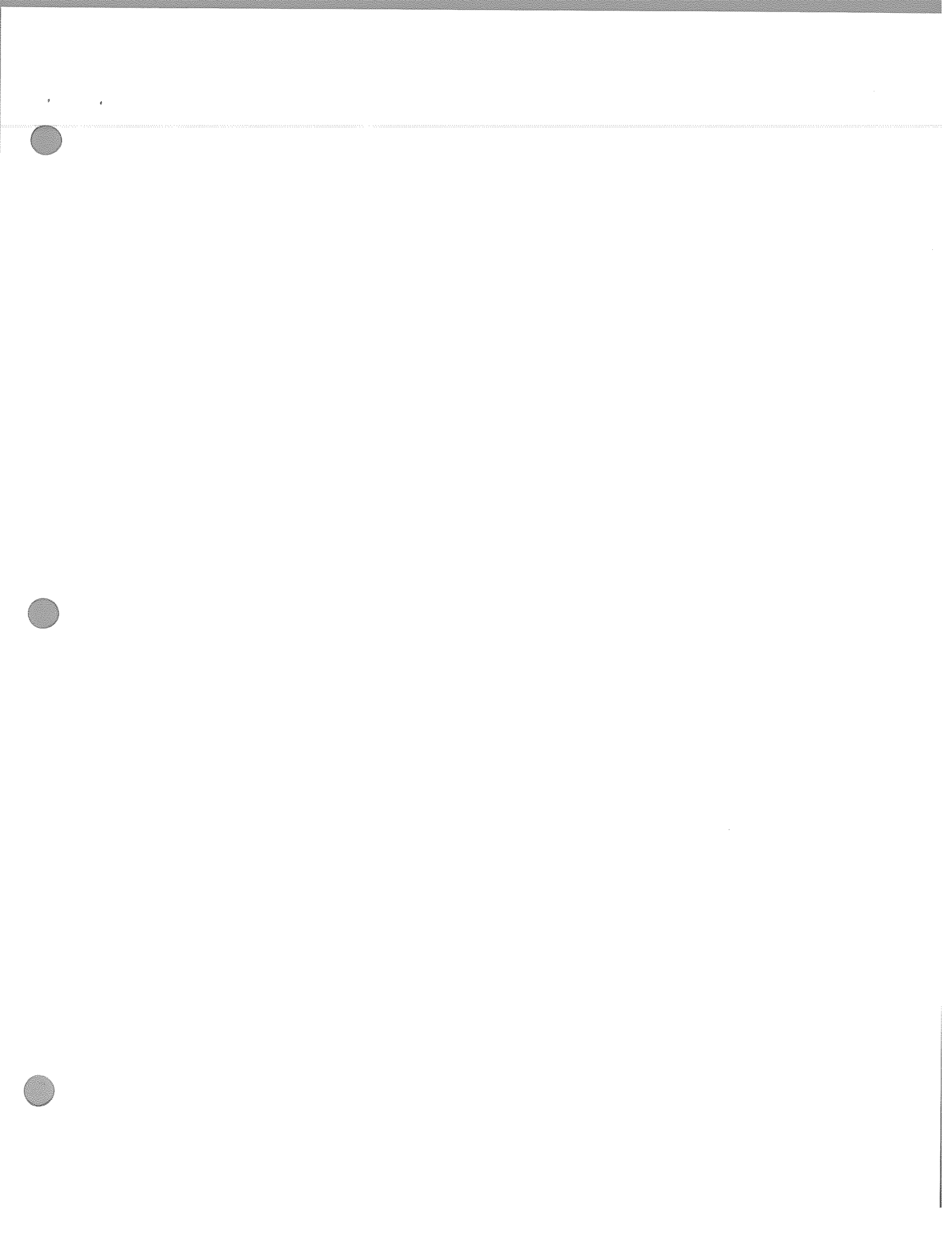
Josephine Coner

Notary Public



JOSEPHINE CONER
Notary Public, State of Ohio
My Commission Expires 09-20-16

My Commission Expires: 09-20-2016



Kentucky Power Company

REQUEST

Please refer to Attachment 1 of the Company's response to SC 2-26 and the Company's response to Staff 1-13 in Case No. 2012-00550. In the Matter of: An Examination Of The Application Of The Fuel Adjustment Clause of American Electric Power Company From November 1, 2010 Through October 31, 2012. Please reconcile or explain the differing line loss values provided on a historic basis in the response to Staff 1-13 and those provided on a forecasted basis in SC 2-26.

RESPONSE

The FAC line loss calculation reflects line losses net of those marginal line loss amounts that are settled on a financial basis in accordance with FERC Order EL06-055. As such, the FAC line loss does not equate to the total line loss for Kentucky Power reflected in the Company's response to SC 2-26 which does include all of the physical line losses.

WITNESS: William K Castle

RECEIVED

APR 25 2014

**PUBLIC SERVICE
COMMISSION**

COMMONWEALTH OF KENTUCKY

BEFORE THE

PUBLIC SERVICE COMMISSION OF KENTUCKY

IN THE MATTER OF

**INTEGRATED RESOURCE PLANNING REPORT)
OF KENTUCKY POWER COMPANY TO THE) Case No. 2013-00475
KENTUCKY PUBLIC SERVICE COMMISSION)**

**KENTUCKY POWER COMPANY RESPONSES TO
SIERRA CLUB'S DATA REQUESTS FROM
APRIL 16, 2014 INFORMAL CONFERENCE**

April 25, 2014

VERIFICATION

The undersigned, Will K. Castle, being duly sworn, deposes and says he is the Director Resource and DSM Planning for American Electric Power, that he has personal knowledge of the matters set forth in the forgoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge and belief

Will K Castle

Will K. Castle

STATE OF OHIO

)

) Case No. 2013-00475

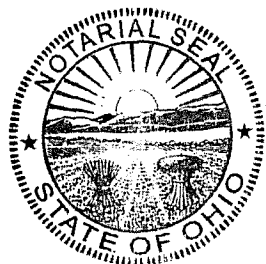
COUNTY OF FRANKLIN

)

Subscribed and sworn to before me, a Notary Public in and before said County and State by Will K. Castle, this the 21 day of April 2014.

Josephine Coner

Notary Public



JOSEPHINE CONER
Notary Public, State of Ohio
My Commission Expires 09-20-16

My Commission Expires: 09-20-2016

VERIFICATION

The undersigned, John F. Torpey, being duly sworn, deposes and says he is the Director Integrated Resource Planning for American Electric Power, that he has personal knowledge of the matters set forth in the forgoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge and belief

John F. Torpey
John F. Torpey

STATE OF OHIO)
) Case No. 2013-00475
COUNTY OF FRANKLIN)

Subscribed and sworn to before me, a Notary Public in and before said County and State, by John F. Torpey, this the 21st day of April 2014.



JOSEPHINE CONER
Notary Public, State of Ohio
My Commission Expires 09-20-16

Josephine Coner
Notary Public

My Commission Expires: 09-20-2016

Kentucky Power Company

REQUEST

Please refer to Attachment 1 to the Company's response to SC 2-21. Please provide the information appearing in the table appearing in Attachment 1 in terms of avoided cost.

RESPONSE

Please see SC Informal Conference 1, Attachment 1, on the enclosed CD for the requested information. The tabs in green calculate an equivalent \$/MWh of PJM value for solar given a 30 year panel life, 0.5% annual degradation, and an 8% discount rate which is comparable to the last column of Kentucky Power's response to SC 2-21 labeled "Energy & Capacity Levelized Cost \$/MWh – 8%." The "levelized cost" tab compares the two sets of values.

WITNESS: John F Torpey



Kentucky Power Company

REQUEST

Please provide Attachment 1 identified in the Company's response to Staff 2-20.

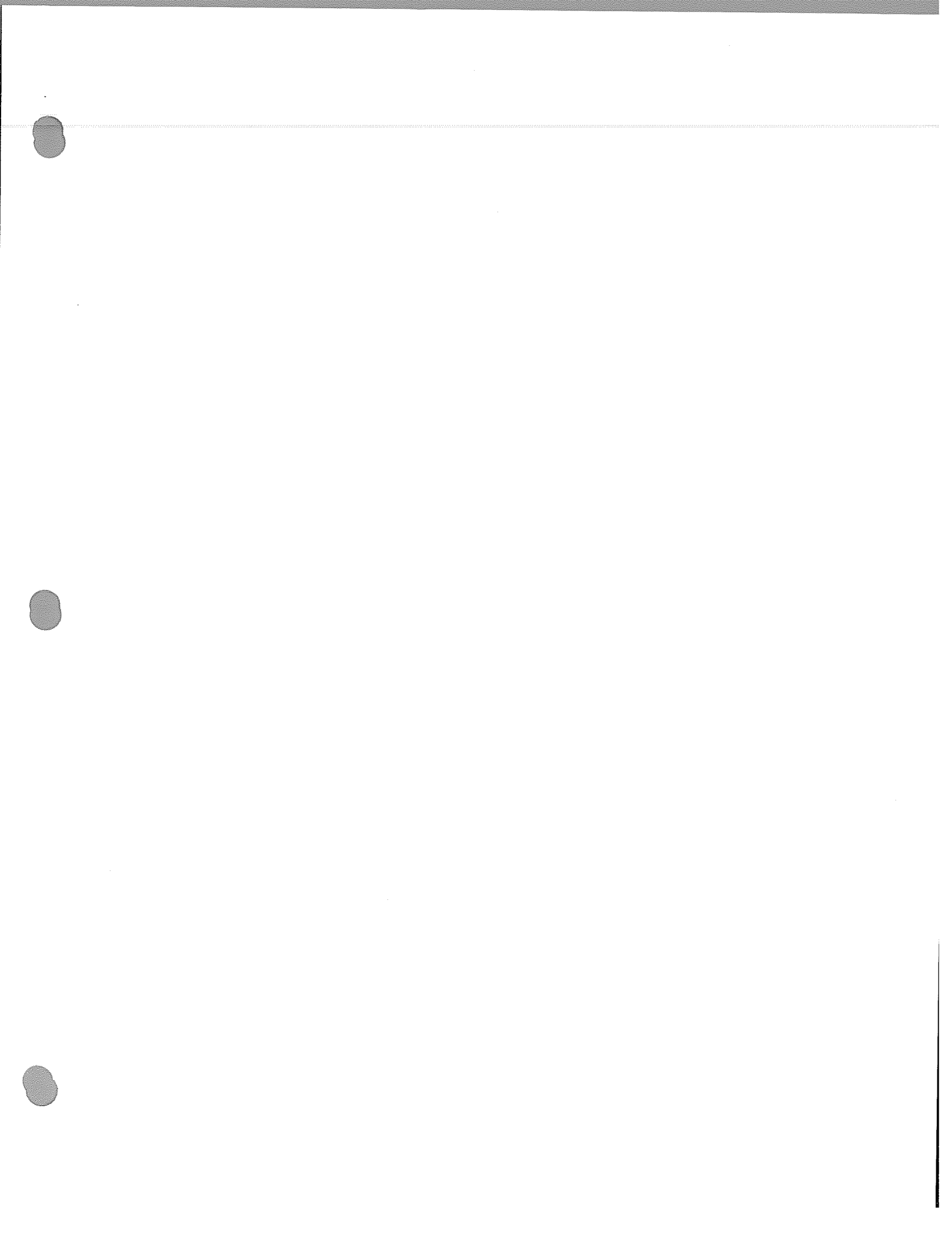
RESPONSE

Please see SC Informal Conference 2, Attachment 1.

WITNESS: John F Torpey

**PJM RTO
Hours of the Five Peak Days for RTO**

Year	Peak 1		Peak 2		Peak 3		Peak 4		Peak 5	
	Date	Hour	Date	Hour	Date	Hour	Date	Hour	Date	Hour
2008	06/09/08	1700	07/17/08	1700	07/18/08	1700	07/21/08	1700	06/10/08	1700
2009	08/10/09	1700	08/18/09	1600	08/17/09	1700	08/11/09	1700	08/20/09	1700
2010	07/07/10	1700	07/06/10	1700	07/23/10	1700	08/10/10	1700	08/11/10	1700
2011	07/22/11	1500	07/21/11	1700	07/20/11	1700	07/19/11	1700	06/08/11	1700
2012	07/17/12	1700	07/18/12	1500	07/06/12	1700	07/05/12	1600	07/16/12	1700



Kentucky Power Company

REQUEST

Please refer to the Company's response to SC 2-23 and Exhibit 2 at page 8 in Volume A of the IRP which provides the average annual growth rates over the 2014-2028 forecast horizon. Please provide the corrected values.

RESPONSE

Please see SC Informal Conference 3, Attachment 1, for a corrected Table 2 appearing at page 8 in Volume A of Kentucky Power's 2013 IRP.

WITNESS: William K Castle



2013 Integrated Resource Plan

conservation and load management activities, including demand-side management (DSM) programs already in place.

Table 2: Peak Internal Demand and Energy Requirements Including Approved EE

Table 2 Kentucky Power Company Forecast of Peak Internal Demand and Energy Requirements Including Approved Energy Efficiency Impacts 2014-2028			
Year	Peak Internal Demand		Internal Energy Req'ts (GWh)
	Summer (MW)	Winter Following (MW)	
2014	1,132	1,431	6,958
2015	1,133	1,432	6,953
2016	1,134	1,431	6,970
2017	1,137	1,431	6,975
2018	1,139	1,432	6,979
2019	1,141	1,430	6,986
2020	1,142	1,436	6,997
2021	1,149	1,439	7,012
2022	1,154	1,438	7,036
2023	1,157	1,438	7,056
2024	1,158	1,444	7,072
2025	1,166	1,448	7,090
2026	1,171	1,452	7,112
2027	1,176	1,454	7,134
2028	1,179	1,459	7,158
% Average Growth rate, 2014-2028	0.3	0.1	0.2
Note: Kentucky Power interruptible load is assumed to be not available for interruption at the time of the seasonal peaks			

As Table 2 indicates, during the period 2014-2028, Kentucky Power's base internal energy requirements are forecasted to increase at an average annual rate of 0.1%, while the corresponding summer and winter peak internal demands are forecasted to grow at average annual rates of 0.3% and 0.1%, respectively. Kentucky Power's annual peak demand is expected to continue to occur in the winter season. However, as a member of PJM, Kentucky Power is *only* obligated to plan to meet its summer peak given that PJM is, itself, summer peaking.