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RECEIVED

JUL 1 1 2013

PUBLIC SERVICE

COMMISSION

July 11, 2013

VIA HAND DELIVERY

Jeff Derouen
Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602-0615

Re: Joint Application of Kenergy Corp. and Big Rivers Electric Corporation for Approval of Contract and for a Declaratory Order

) Case No. 2013-00221

Dear Mr. Derouen:

Enclosed are an original and ten copies of Kenergy Corp. and Big Rivers Electric Corporation's: (1) Response to the Commission Staff's Initial Request for Information; (2) Response to the Office of the Attorney General's Initial Request for Information; (3) Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information; (4) Petition for Confidential Treatment; and (5) Motion for Deviation in the above-referenced matter.

I certify that on this date a copy of these documents has been served on all persons on the attached service list by hand-delivery or by Federal Express.

Sincerely,

Edward T. Depp

ETD/lb Enclosures

cc:

Mark A. Bailey Billie J. Richert

Service List PSC Case No. 2013-00221

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BIG RIVERS ELECTRIC CORPORATION

JOINT APPLICATION OF KENERGY CORP. AND BIG RIVERS ELECTRIC CORPORATION FOR APPROVAL OF CONTRACTS AND FOR A DECLARATORY ORDER CASE NO. 2013-00221

VERIFICATION

I, Robert W. Berry, verify, state, and affirm that I prepared or supervised the preparation of the data responses filed with this Verification, and that those data responses are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Robert W. Berry

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Robert W. Berry on this the $\underline{\mathscr{S}}$ day of July, 2013.

Notary Public, Ky. State at Large My Commission Expires____

> Public, Kentucky State-At-Large Emmission Expires: July 3, 2014

BIG RIVERS ELECTRIC CORPORATION

JOINT APPLICATION OF KENERGY CORP. AND BIG RIVERS ELECTRIC CORPORATION FOR APPROVAL OF CONTRACTS AND FOR A DECLARATORY ORDER CASE NO. 2013-00221

VERIFICATION

I, Billie J. Richert, verify, state, and affirm that I prepared or supervised the preparation of the data responses filed with this Verification, and that those data responses are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Billie J. Richert

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Billie J. Richert on this the day of July, 2013.

Paula Mitchell
Notary Public, Ky. State at Large
My Commission Expires 1-12-17

BIG RIVERS ELECTRIC CORPORATION

JOINT APPLICATION OF KENERGY CORP. AND BIG RIVERS ELECTRIC CORPORATION FOR APPROVAL OF CONTRACTS AND FOR A DECLARATORY ORDER CASE NO. 2013-00221

VERIFICATION

I, Gregory J. Starheim, verify, state, and affirm that I prepared or supervised the preparation of the data responses filed with this Verification, and that those data responses are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Gregory J. Starheim

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Gregory J. Starheim on this the 4th day of July, 2013.

Notary Public, Ky. State at Large My Commission Expires 5-24-15

ORIGINAL

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

JOINT APPLICATION OF KENERGY CORP. AND)	
BIG RIVERS ELECTRIC CORPORATION FOR)	C N- 2012 00221
APPROVAL OF CONTRACTS AND)	Case No. 2013-00221
FOR A DECLARATORY ORDER	Ó	

Response to the Kentucky Industrial Utility Customers' Initial Request for Information dated July 2, 2013

FILED: July 11, 2013

ORIGINAL

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 1)	Rej	fer to page 29 lines 13-14 of Mr. Berry's Direct Testimony wherein states
2	that the Cen	itury	will pay Big Rivers for MISO charges that include "SSR costs relating to
3	that [Hawes	ville]	node."
4		a.	Please confirm that MISO may designate only one Coleman unit as an
5			SSR or as many as all three of the Coleman units as SSRs. Please
6			describe how MISO will make the decision on how many units and
7			which units to designate as SSRs.
8		b.	If the Company is required by MISO to continue operation of only one
9			or two of the Coleman units as SSRs, then does the Company plan to
10			idle the other units?
11		с.	Please list and describe the specific costs that MISO will reimburse Big
12			Rivers ("make whole payments") if MISO designates one or more of the
13			Coleman units as SSRs.
14		d.	Provide a quantification of the make whole payments for Coleman from
15			MISO to reimburse Big Rivers if MISO designates one or more of the
16			Coleman units as SSRs based on the test year costs included in the
17			Company's revenue requirement in Case No. 2012-00535. Provide this
18			information by unit. Provide a copy of all workpapers and source

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1		documents, including, but not limited to, electronic spreadsheets with
2		formulas intact.
3	e.	Please provide a quantification of the specific costs for Coleman that
4		MISO will not reimburse Big Rivers for if MISO designates one or more
5		of the Coleman units as SSRs based on the test year costs included in the
6	0	Company's revenue requirement in Case No. 2012-00535. Provide this
7		information by unit. Provide a copy of all workpapers and source
8		documents, including, but not limited to, electronic spreadsheets with
9		formulas intact.
10	f.	Please provide a quantification of the specific costs for Coleman by unit
11		and plant that are included in the Company's revenue requirement in
12		Case No. 2012-00535 and a quantification of the costs that can be
13		avoided for each unit that is idled. Provide a copy of all workpapers and
14		source documents, including, but not limited to, electronic spreadsheets
15		with formulas intact.
16	g.	Please explain specifically how and from whom MISO will recover the
17		make whole payments made to Big Rivers for the Coleman units

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1			designated as SSRs. Explain how these costs will be allocated to and
2			recovered from each relevant Local Balancing Area, LSE or node.
3		h.	Please confirm that under the MISO Attachment Y-2 Study Report,
4			91.63% of the Coleman SSR costs will be allocated to and recovered
5			from Big Rivers. If this is not correct, then please explain the
6			significance of the 91.63% set forth in Table 2 of the Report.
7		i.	Will the Hawesville node be considered an LBA? Please explain why or
8			why not.
9			
10	Response)		
11		a.	Confirmed. Please see the MISO Tariff Section 38.2.7.c, "Evaluation of
12			SSR Unit Application." This MISO Tariff section is provided as an
13			attachment to this response.
14		b.	Yes. Big Rivers' current plan is to idle the other Coleman units until such
15			time as the market will support the total production cost of the unit or until
16			Big Rivers finds sufficient replacement load, or enters into a bilateral
17			contract or contracts that justify operating the units.
8		c.	Please see the MISO Tariff section 38.2.7.h. "SSR Unit Compensation."

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	d.	Make whole payments cannot be quantified until Big Rivers enters into an
2		approved SSR agreement with MISO. Section 4.1 (a) of the Direct
3		Agreement requires Century to pay all cost incurred by Big Rivers if Big
4		Rivers is required to operate one or more of the Coleman units until the
5		SSR is approved.
6	e.	Make whole payments cannot be quantified until Big Rivers enters into an
7		approved SSR agreement with MISO. Section 4.1 (a) of the Direct
8		Agreement requires Century to pay all cost incurred by Big Rivers if Big
9		Rivers is required to operate one or more of the Coleman unit/units until
10	ii ii	the SSR is approved. The MATS capital equipment will not be
11		reimbursed by MISO or Century unless the SSR agreement is extended
12		beyond June 1, 2014.
13	f.	As stated in Case No. 2012-00535, all costs associated with Coleman were
14		included in Big Rivers' revenue requirement; however, the avoidable costs
15		of Wilson were not included, as Wilson was originally assumed to be
16		idled. As described in Exhibit Berry Rebuttal-2 in Case No. 2012-00535,
17		the fixed operating costs savings associated with idling Coleman is
18		approximately \$90,000 (\$91,426) greater than the fixed operating costs

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

1		savings included in the requested rate adjustment, thus there is essentially
2		no rate impact due to the idling of Coleman in the case. This is the
3		difference in Big Rivers' total cost of service with Coleman idled instead
4		of Wilson. As such, it should be assumed that no avoidable costs for
5		Coleman are included in the rate request. The depreciation, taxes, and
6		interest associated with Coleman plant were included in the requested rate
7		adjustment and are not avoidable even if the unit is idled. The
8		CONFIDENTIAL must-run analysis for the Coleman plant is provided in
9		an attachment to Big Rivers' response to AG 1-1. This analysis shows
0		detailed costs for the Coleman Station. Costs by unit are not available.
1	g.	MISO will utilize section 38.2.7.j of its tariff to determine how and from
2		whom it will recover the make whole payments made to Big Rivers for the
3		Coleman units designated as SSRs. The areas identified in the non-
4		binding Attachment Y-2 report for the cost allocation are Big Rivers
5		Electric Corporation (BREC) (91.63%), Southern Indiana Gas & Electric
5		(SIGE) (4.52%), Ameren Illinois (AMIL)(3.75%) and Duke Energy
7		Indiana (DEI) (0.10%). Please see response to KIUC item 1-2 for the
3		redacted version of the Coleman Attachment Y-2 report.

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Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1		h.	The 91.63% is the potential SSR cost allocation MISO provided in the
2			Attachment Y-2 request, which is a non-binding study. The final cost
3			allocation will be determined by MISO as part of the Attachment Y,
4			"Notification of Potential Resource/SCU Change of Status," and
5			Attachment Y-1, "Standard Form Support Supply Resource ("SSR")
6			Agreement" process. The 91.63% is the amount allocated to the Big
7			Rivers load node (BREC.BREC), which includes Century's share of the
8			costs. After the Century load node is effective on August 20, 2013,
9			Century's share of the 91.63% will be charged to its load node.
10		i.	No, the Hawesville node is a commercial pricing node. Local Balancing
11			Authority designations are based on the transmission owner level of the
12			physical transmission system and are not determined based on how load or
13		08	generation is assigned to a particular commercial pricing node.
14			
15	Witness)	Robe	ert W. Berry
16			
17			
18			

38.2.7 System Support Resources Version: 2.0.0 Effective: 9/24/2012

System Support Resource (SSR) procedures provide a mechanism for the Transmission Provider to enter into agreements with Market Participants that own or operate Generation Resources or Synchronous Condenser Units (SCUs) that are required by the Transmission Provider to maintain reliability of the Transmission System, if all or a specified portion of the capacity of such Generation Resources or SCUs would otherwise either Retire or Suspend.

The SSR procedures include: (a) a requirement that any Market Participant planning to Retire or Suspend, all or a portion of a Generation Resource or SCU located within the Transmission Provider Region for reasons other than a Generator Planned Outage must notify the Transmission Provider of such events by submitting a completed Attachment Y to the Transmission Provider documenting the proposed plans for such Generation Resource or SCU, at least twenty-six (26) weeks prior to taking such actions; (b) Market Participants must submit all necessary information to enable the Transmission Provider to evaluate whether SSR Unit status is appropriate for such Generation Resource or SCU; (c) if the Transmission Provider determines that SSR Unit status is justified for a Generation Resource or SCU, the Transmission Provider and such Market Participant shall enter into an SSR Agreement, in accordance with the Attachment Y-1 form of agreement; (d) the SSR Unit will be operated in accordance with the terms of the SSR Agreement, which contains detailed terms and conditions regarding operation and compensation of such Generation Resource or SCU and the allocation of costs; (e) costs to compensate an SSR Unit will be allocated to the LSE(s) that benefits from the operation of the SSR Unit; and (f) the Transmission Provider shall periodically review the reliability requirements of the Transmission Provider Region and shall determine which, if any, SSR Agreements should be extended.

a. SSR Unit Notification Procedures. A Market Participant shall complete and deliver to the Transmission Provider Attachment Y, Notification of Potential Generation Resource or SCU Change of Status, at least twenty-six (26) weeks prior to Retiring or Suspending all or a portion of a Generation Resource or a SCU that it either owns or operates, except as provided below. The provisions of Section 38.2.7 do not apply to: (1) Generation Resources and SCUs that are in forced outage or forced derate status; (2) Generation Resources and SCUs that are requesting, or are not available due to, a Generator Planned Outage; (3) Behind the Meter Generation Resources; or (4) Generation Resources that are identified as needed for Blackstart by a Transmission Operator. Section 38.2.7 shall not modify or alter a Transmission Operator's obligations under the Tariff to identify Blackstart Units that are included in a System Restoration Plan, or a Blackstart Unit Owner's obligations to comply with the terms of any Blackstart Service agreement, in accordance with Schedule 33, or the requirements of Commission approved reliability standards.

Market Participants that own or operate Generation Resources or SCUs that are not directly interconnected to the Transmission System shall notify the Transmission Provider in accordance with Section 38.2.7(a) if the Market Participant plans to Retire or Suspend such facilities. The Transmission Provider shall coordinate with the entity to which the Generation Resource or SCU is directly connected to determine whether the Generation Resource or SCU is necessary for reliability of the Transmission System.

The Transmission Provider shall treat Attachment Y as Confidential Information until the Attachment Y reliability analysis is completed and the study results are disclosed to the Market Participant.

The Transmission Provider shall respond to the Market Participant within twenty (20) weeks

with the results of the study completed in response to the Attachment Y. A Market Participant certifies by submitting an Attachment Y that such Market Participant has made a definitive decision to Retire or Suspend a Generation Resource or SCU and the Attachment Y shall be executed by an officer of the owner or operator of the Generation Resource or SCU attesting to the facts supporting that claim, who has the legal authority to bind such Market Participant. The Transmission Provider shall notify the Market Participant prior to publicizing the Attachment Y request and study results that the Attachment Y analysis is complete, however, the Transmission Provider shall not provide any information related to the study or study results to the Market Participant at that time. The Market Participant may rescind its Attachment Y submission by notifying the Transmission Provider of such rescission via electronic communication and certified mail not more than five (5) business days after receiving notice from the Transmission Provider that the Attachment Y analysis is complete, in which case the confidentiality of the Attachment Y shall be preserved. If a Market Participant rescinds an Attachment Y submission, then such Market Participant shall not receive the results of the study and such Market Participant shall pay the Transmission Provider 100% of the costs that the Transmission Provider has incurred in conducting an Attachment Y analysis up until the date of such rescission. Once a response is provided by the Transmission Provider to the Market Participant, the Transmission Provider shall promptly post on OASIS: (1) that an Attachment Y was submitted; and (2) whether the Transmission Provider's study concluded that the Generation Resource or SCU was required for the reliability of the Transmission System. An owner or operator of a Generation Resource or SCU that notifies the Transmission Provider of a definitive decision to Suspend may only modify its decision to Suspend by submitting a request to the Transmission Provider that demonstrates significantly changed legal, regulatory, or economic

conditions justifying modification of an Attachment Y Suspend decision. In determining whether the Generation Resource or SCU may return prematurely from suspension, the Transmission Provider will evaluate factors, including, but not limited to: (i) any reliability impacts if the Generation Resource or SCU operates differently than planned for by the Transmission Provider based on the Attachment Y notification; and (ii) costs that the Transmission Provider, or other Market Participants, may incur as a result of such modified operations. After the Transmission Provider has posted on OASIS that a Generation Resource or SCU is required for the reliability of the Transmission System, the owner or operator of such facility may modify the effective date of a definitive decision to Retire or Suspend if: (1) the Transmission Provider has determined that demand response, generation or transmission expansion alternatives are required; and (2) the owner or operator of the Generation Resource or SCU agrees in writing with the Transmission Provider to continue to operate the facility without entering into an SSR Agreement until the alternative(s) have been implemented to maintain the reliability of the Transmission System.

- b. Notification of the Outage Scheduler After Submittal of Attachment Y. After receipt of an Attachment Y, the Transmission Provider shall schedule such outage notification through the Transmission Provider's Control Room Operations Window ("CROW") outage scheduling system, or successor system, to coordinate the outage planning of a Generation Resource or SCU through CROW, on behalf of the Market Participant.
- c. Evaluation of SSR Unit Application. The Transmission Provider will perform an Attachment Y reliability analysis to determine whether the Generation Resource or SCU is necessary for the reliability of the Transmission System based on the criteria set forth in the Business Practices Manuals, but will not determine in this initial analysis the available

alternatives to designating the Generation Resource or SCU as an SSR Unit. The Transmission Provider shall post the determination of reliability need on the Transmission Provider's OASIS. Before entering into an SSR Agreement with any Generation Resource or SCU, the Transmission Provider shall assess, in an open and transparent planning process in accordance with the provisions of the Transmission Expansion Planning Protocol Attachment FF to the Tariff, feasible alternatives to the proposed SSR Agreement. The list of alternatives to SSR Unit status that the Transmission Provider shall consider and expeditiously approve as applicable include (depending upon the type of reliability concern identified): (i) redispatch/reconfiguration through operator instruction; (ii) remedial action plans; (iii) special protection schemes initiated upon Generation Resource trips or unplanned Transmission Outages; (iv) committed demand response or Generator alternatives; and (v) transmission expansions. In assessing applicability for SSR status, the Transmission Provider will not require continued operation when the continued operation of a portion or all of Generation Resources or SCUs would be contrary to applicable law, regulations, or court or agency orders (such as a settlement with an environmental agency or a consent decree approved by a court). In performing the Attachment Y reliability analysis and any planning studies to assess feasible alternatives to an SSR Agreement, the Transmission Provider shall collaborate with the affected Transmission Owners and NERC-registered Transmission Planners, and if appropriate, may consult with a retained consultant. The Transmission Provider will appropriately identify any Confidential Information regarding a Retire or Suspend decision before the Transmission Provider transfers such information to any entity. An entity that receives Confidential Information must agree in writing to maintain such confidentiality, to comply with any confidentiality obligations owed to Transmission Provider under the Tariff or pursuant to a related non-disclosure agreement, and to

comply with applicable Standards of Conduct found in 18 C.F.R. § 358. The Transmission Provider will reasonably assist the owner or operator of a potential SSR Unit in working with regulatory agencies to obtain environmental waivers or exemptions to the extent necessary to maintain the reliability of the Transmission System. The Market Participant that owns or operates the Generation Resource or SCU subject to review under this section shall provide the Transmission Provider in a timely manner with all necessary data, including but not limited to, engineering data required to enable the Transmission Provider to evaluate whether such Generation Resource or SCU qualifies as an SSR Unit.

- Agreement with the Market Participant owning or operating an SSR Unit in accordance with Attachment Y-1. The Transmission Provider will file an SSR Agreement with the Commission for approval if the Transmission Provider's analysis determines that the Generation Resource or SCU is required for reliability of the Transmission System. All potentially affected parties will receive notification of such Commission filing. During the period that a Generation Resource or SCU is subject to an executed Attachment Y-1 agreement, it shall qualify as an SSR Unit. SSR service is a contracted service between the Market Participant that owns or operates an SSR Unit and the Transmission Provider and shall be for a term of twelve (12) months, unless the Transmission Provider requires a different term. The Transmission Provider must have available the entire capacity specified in the SSR Agreement of each SSR Unit.
- e. Operation of SSR Unit. Once the Transmission Provider has entered into an SSR

 Agreement with a Generation Resource or SCU, the Transmission Provider shall have the right to dispatch the SSR Unit at any time for reliability of the facilities within the Transmission

 Provider Region. The Transmission Provider shall make every attempt to minimize the use of an

SSR Unit. The Transmission Provider will dispatch the SSR Unit as early as possible once conditions are identified that require the use of the SSR Unit and will make best efforts to minimize the uneconomic dispatch of the SSR Unit(s). The SSR Agreement found in Attachment Y to this Tariff shall provide for equitable compensation to an SSR Unit when it is dispatched by the Transmission Provider.

- f. Scheduling Rules for SSR Units. No later than 1000 hours EST the day prior to the Operating Day, the Transmission Provider shall notify Market Participants with SSR Units as to the quantity (in MW and/or MVAR) and time period of Energy, Operating Reserve and/or Other Ancillary Services required from each SSR Unit.
- g. SSR Unit Participation in Markets. A Market Participant may offer Energy or Ancillary Services from SSR Units into the Day-Ahead Energy and Operating Reserve Market, RAC, or Real-Time Energy and Operating Reserve Market during times when the Transmission Provider has not requested the Market Participant to run the SSR Unit at full capacity unless this would impair the ability of the SSR Unit to provide the Energy, Operating Reserve or Other Ancillary Services when requested by the Transmission Provider.

Market Participants that own or operate an SSR Unit shall not use the SSR Unit to: (i) participate in Interchange Schedules; (ii) except for plant auxiliary Load obligations under the SSR Agreement, use the SSR Unit as a Self-Scheduled Resource to submit Self-Schedules for Energy and/or Operating Reserve; (iii) submit Self-Schedules for Other Ancillary Services, if applicable, to the extent that Other Ancillary Services are required by the Transmission Provider under this Section; and (iv) participate in the Energy and Operating Reserve Markets, except for incremental Offers of additional Capacity beyond the amount designated by the Transmission Provider as necessary for reliability purposes

to the extent allowed in the SSR Agreement.

- h. SSR Unit Compensation.
- i. The Transmission Provider will propose appropriate compensation for the Market Participant owning the Generation Resources or SCUs deemed to be SSR Units. Prior to the execution of the SSR Agreement, the Transmission Provider will negotiate with the Market Participant to determine the level of compensation due the Market Participant for the SSR Unit. The Market Participant will receive appropriate compensation for any fixed operations and maintenance expenses that could have been avoided through a Retire or Suspend decision for the entire period of time that an SSR Agreement is in effect for a portion or all of the Generation Resource or SCU that is required for reliability of the Transmission System as an SSR Unit. Compensation for an SSR Unit shall commence on the date that the Generation Resource or SCU commences operation as an SSR Unit.
- ii. The SSR Agreement will provide compensation only for going forward costs. The Transmission Provider will evaluate, at a minimum, the following factors in negotiating compensation for an SSR Unit: (a) fixed and variable operating and maintenance costs to existing equipment; (b) applicable state, federal, local or property taxes; and (c) non-capital costs of any environmental waivers, allowances, and/or exemptions that are obtained by the SSR Unit and not otherwise recoverable by the SSR Unit owner or operator. Any compensation to the SSR Unit will be reduced by payments under Schedule 2 of this Tariff, payments under resource adequacy programs, inframarginal rents from Energy and Operating Reserve Market transactions, and any other compensation paid under the market or via other contractual arrangements.

Termination of Interconnection Rights. Except as provided in Attachment X or any i. applicable agreement for the interconnection of the Generation Resource or SCU, the Transmission Provider shall file with the Commission to terminate the interconnection rights to the Transmission Provider's system held by an owner or operator of a Generation Resource or SCU that certifies by submitting an Attachment Y that it plans to Retire a Generation Resource or SCU upon the latter of: (1) the current termination date specified in an SSR Agreement, even if the Transmission Provider gives prior notice of an earlier termination of an SSR Agreement; or (2) the Retire date certified by a Market Participant in Attachment Y. The owner or operator of such resource may retain its interconnection rights and continue to operate after the conclusion of an SSR Agreement or the Retire date certified in the Attachment Y if: (1) substantial changes to applicable law, regulations, or court or agency orders pursuant to which the owner or operator of the Generation Resource or SCU originally relied upon in submitting the Attachment Y, occur either during the term of the SSR Agreement or during the time between the submission of an Attachment Y and the specified Retire date that significantly affect the economic operation of the resource; or (2) the owner or operator of an SSR Unit planning to Retire a facility simultaneously submits with Attachment Y a request for interconnection pursuant to Attachment X of another facility or an increase in capacity of an existing facility at the identical point of interconnection, with a Commercial Operation Date within thirty-six (36) months of the Retire date of the existing Generation Resource or SCU, in which case the interconnection rights may be transferred to the new facility upon successful completion of the applicable interconnection procedures under Attachment X. If the owner of an Generation Resource or SCU that submitted an Attachment Y to Retire fails to terminate

operation of such facility and the Transmission Provider has approved construction of Transmission System upgrades that were necessitated by such facility's Retire plans (and such upgrades were approved by the Transmission Provider's Board of Directors as Appendix A projects), then the owner of the Generation Resource or SCU that planned to Retire shall be allocated the costs of such Transmission System upgrades necessitated by the planned unavailability of the facility.

- j. Allocation of SSR Unit Costs. The costs pursuant to the SSR Agreement shall be allocated to LSE(s) which require(s) the operation of the SSR Unit for reliability purposes, and shall be specified in the SSR Agreement. For the purposes of this Section, any SSR Unit costs allocated to the footprint of the American Transmission Company shall be allocated to all Market Participants within the footprint of the American Transmission Company on a *pro rata* basis.
- Round Review of SSR Unit Status. On at least an annual basis, the Transmission Provider will review Generation Resource or SCU characteristics to determine whether the Generation Resource or SCU is qualified to remain as an SSR Unit in coordination with a review of the Transmission Provider's annual regional transmission expansion plan in accordance with Attachment FF. If an SSR Unit continues to be required for reliability of the Transmission System, then the Transmission Provider will have the unilateral right to enter into a subsequent SSR Agreement by providing the Market Participant at least ninety (90) days advance notice prior to the termination date of the existing SSR Agreement and by negotiating and filing a new SSR Agreement at the Commission. If not, the SSR Agreement will expire by its own terms and the Generation Resource or SCU will lose its SSR Unit status and will either Retire or resume suspension in accordance with the Attachment Y request.
- l. Time Limitations on Suspension. A Market Participant owning or operating a

Generation Resource or a SCU may request suspension pursuant to the provisions of this Section 38.7.2 for a maximum of 36 cumulative months during any five (5) year period. A Market Participant owning or operating a Generation Resource or a SCU that had been granted a suspension pursuant to an Attachment Y request for less than thirty-six (36) cumulative months, or that has been operating under an SSR Agreement for less than thirty-six (36) cumulative months, may request an extension to such time limits by submitting a new Attachment Y request twenty-six (26) weeks prior to the end of the originally granted period or the termination date specified in the SSR Agreement, provided that the combined period of the originally granted period, or the period of operation under an SSR Agreement, and the extension is not greater than thirty-six (36) months.

m. Non-Binding Informational Studies. A Market Participant owning or operating a Generation Resource or a SCU may complete Attachment Y-2 to request that the Transmission Provider conduct a study to determine whether it is likely that a portion or all of such Generation Resource of SCU would qualify as an SSR Unit. The Transmission Provider will collaborate with the affected Transmission Owners and NERC-registered Transmission Planners, and if appropriate, will consult with a retained consultant to evaluate whether the facility is required for the reliability of the Transmission System. The Transmission Provider will appropriately identify any Confidential Information regarding a Retire or Suspend decision that the Transmission Provider transfers to any entity. An entity that receives Confidential Information must agree in writing to maintain such confidentiality, or to any confidentiality obligations owed to Transmission Provider under the Tariff or related non-disclosure agreement, and to comply with applicable Standards of Conduct found in 18 C.F.R. § 358. The Market Participant will not be bound to the change of status indicated in an Attachment Y-2 request. Along with a

completed Attachment Y-2, such Market Participant shall submit a study deposit of \$70,000 to the Transmission Provider for the reasonable costs and expenses of such study. The Transmission Provider shall invoice such Market Participant for all costs and expenses incurred in addition to the deposit amount, or shall refund any unused portion of such deposit upon completion of the study. The Transmission Provider shall use reasonable efforts to submit the results of such study to the Market Participant upon its completion within 75 days of receipt of the deposit and completed Attachment Y-2, unless an alternative period is mutually agreed to. The Transmission Provider shall treat Attachment Y-2 as Confidential Information until the Attachment Y-2 reliability analysis is completed and the study results are disclosed to the Market Participant. The Transmission Provider shall notify the Market Participant prior to publicizing the Attachment Y-2 study results that the Attachment Y-2 study is completed, however the Transmission Provider shall not provide any information related to the study or study results to the Market Participant at that time. The Market Participant may rescind its Attachment Y-2 submission by notifying the Transmission Provider of such rescission via electronic communication and certified mail not more than five (5) business days after receiving notice from the Transmission Provider that the Attachment Y-2 study is complete, in which case the confidentiality of the request for an Attachment Y-2 study shall be preserved. If a Market Participant rescinds an Attachment Y-2 study request, then such Market Participant shall not receive the results of the study and the Market Participant shall pay the Transmission Provider 100% of the total costs incurred in conducting the study up until the date of such rescission. Once a response is provided by the Transmission Provider to a Market Participant, the Transmission Provider shall promptly post on OASIS the fact that an Attachment Y-2 request was made and the determination by the Transmission Provider whether the Generation Resource

or SCU was required for the reliability of the Transmission System. The results of such study will provide the Market Participant with the outcome if the Market Participant elects to submit an Attachment Y to request SSR status in the future and does so in accordance with Section 38.2.7(n).

The Transmission Provider shall maintain regional power flow models on its public website, pursuant to Section I.A of Attachment FF, for use by a Market Participant owning a Generation Resource or a SCU choosing to conduct a study.

n. Submission of Attachment Y Following Non-Binding Reliability Studies Under Y-2. An Attachment Y that is submitted by a Market Participant within 30 business days after receipt of a response from the Transmission Provider for the same Generation Resource or SCU pursuant to an Attachment Y-2 study, may request a change of status of the Generation Resource or SCU commencing on a date 26 weeks from the date of receipt by the Transmission Provider of the related Attachment Y-2 study request. To the extent practicable, the Transmission Provider will use Y-2 study results in preparing the Attachment Y analysis.

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 2)	Rej	fer to page 5 lines 9-11 of Mr. Berry's Rebuttal Testimony in Case No.
2	2012-00535	whe	rein he states that Big Rivers converted its Attachment Y-2 into an
3	Attachment	Y, see	king permission to idle the Coleman Station.
4		a.	Please provide a copy of the Company's Attachment Y-2.
5		b.	Please indicate when the Company expects to obtain a decision on the
6			Attachment Y-2 request.
7			
8	Response)		
9		a.	Please see a redacted version of the Attachment Y-2 report for the
10			Coleman Plant, attached to this response. Please note that the confidential
11			critical infrastructure information in this document has been redacted, and
12			that the remaining contents of the document are not confidential.
13		b.	Big Rivers expects MISO to provide the Base Load amount within the
14			next two weeks.
15			
16			
17	Witness)	Rob	ert W. Berry
18			

Attachment Y-2 Study Coleman Units 1, 2 & 3: 443 MW Coal 29 Month Suspension 8/20/2013 – 1/1/2015

ATTACHMENT Y-2 STUDY REPORT

May 2, 2013

CONTAINS CONFIDENTIAL AND CRITICAL ENERGY INFASTRUCTUE INFORMATION (CEII) DO NOT RELEASE

CONFIDENTIAL

This document contains confidential information and should only be shared with direct recipients on a need to know basis. All contents of the following document are confidential and proprietary to MISO. Information cannot be shared with outsiders without explicit authorization.

EXECUTIVE SUMMARY

MISO received an Attachment Y-2 Request for Non-Binding Study Regarding Potential SSR Status (Attachment Y-2 Request) from Big Rivers Electric Corporation (BRPS) on December 18, 2012. The request was for MISO to determine the reliability impact of the potential Suspension of Coleman Units 1 & 2 & 3 from August 20, 2013 to January 1, 2015. Attachment Y-2 analysis is performed as a non-binding assessment of potential reliability issues due to the Suspension or Retirement of a Generation Resource. The results of the study are not definitive and the analysis is intended only to provide information to the Market Participant (MP) to assist them in evaluating their options. However, it does not commit the Market Participant to proceed with plans for Suspension or Retirement.

The study results indicate that potential reliability issues exist that would require the need for Coleman Units 1, 2 and 3 to enter into an System Support Resource (SSR) Agreement if a mitigation plan is not developed and implemented prior to the potential unit change of status, in accordance with Section 38.2.7 of the MISO Open Access Transmission, Energy & Operating Reserve Markets Tariff ("Tariff"). In addition to determining if reliability issues result from the suspension, further analysis was performed to identify the areas that are subject to allocation of the SSR costs. The areas identified for the cost allocation are Big Rivers Electric Corporation (BREC), Southern Illinois Gas & Electric (SIGE), Ameren Illinois (AMIL), and Duke Energy Indiana (DEI).

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I. INTRODUCTION

Big Rivers Electric Corporation, submitted an Attachment Y-2 "Request for Non-Binding Study Regarding Potential SSR Status". Unlike the Attachment Y, an Attachment Y-2 Request is for an informational study to evaluate the potential for a unit to be designated as an SSR and does not commit the Market Participant to proceed with plans to Retire or Suspend. This study of the Coleman Generation Units 1, 2 and 3 determined the reliability impacts that would occur if these units were to be removed from service on August 20, 2013 and return to service on January 1, 2015. With Coleman generation unavailable during this period of time, the study will also address the reliability impacts of two scenarios: 1) Century Aluminum ceases operation on August 19, 2013 and 2) Century Aluminum continues normal operations.

Location: Hawesville, Kentucky

Number and type of generating units: (3) coal fired, steam turbine units

Plant and unit numbers: Coleman Unit #1 (150 MW), Unit #2 (138 MW), and Unit #3 (155

MW)

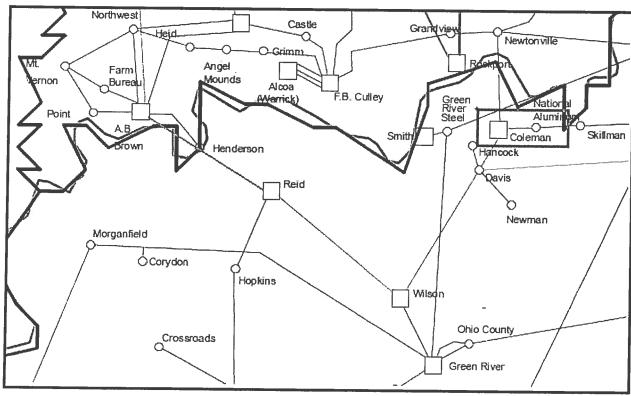


Figure 1: General Location of the Coleman Plant in Northern Kentucky

II. STUDY OBJECTIVES

Under Section 38.2.7 of MISO's Tariff, SSR procedures maintain system reliability by providing a mechanism for MISO to enter into agreements with Market Participants that own or operate Generation Resources or Synchronous Condenser Units (SCUs) that have requested to either Retire or Suspend, but are required to maintain system reliability.

The principal objective of an Attachment Y-2 study is to determine if the units for which a change in status is requested are necessary for system reliability based on the criteria set forth in the MISO Business Practices Manuals. The study work included monitoring and identifying the steady state thermal/voltage violations on transmission facilities due to the unavailability of the Generation Resource. The relevant MISO Transmission Owner and/or regional reliability criteria were used for monitoring such violations.

III. MODELS AND ASSUMPTIONS

Corresponding to the anticipated suspension of the Coleman Units 1, 2, & 3 the following power system analysis source models were used for the study:

- 2014 Summer Peak
- 2017 Summer Peak
- 2017 Shoulder

The Attachment Y study models were created following the MISO Transmission Planning Business Practice Manual (BPM-020-r8) Section 6.2.2. This includes creating a set of models from each source model in which the units being studied are at full generation or taken out of service.

a. Model Assumptions

1. Load Sensitivity to Century Aluminum Plant (485 MW)

b. Transmission Projects

LGEE / KU Matanzas 161 kV Substation The new Matanzas 161 kV Substation has an anticipated in-service date of December 1, 2012. This new substation will be included in the 2014 and 2017 models since the substation will be in-service during the time Coleman Generation is unavailable.

c. Table of Models

n	Model	Coleman 1,2,3	Century Aluminum	Contingency Categories
1	2014SP	off	off	B, C1, C2, C5
_ 2	2014SP	off	on	B, C1, C2, C5
3	2014SP	on	off	B, C1, C2, C5
4	2014SP	on	on	B, C1, C2, C5
5	2017SH	off	off	B, C1, C2, C3, C5
6	2017SH	off	on	B, C1, C2, C3, C5
7	2017SH	on	off	B, C1, C2, C3, C5
8	2017SH	on	on	B, C1, C2, C3, C5
9	2017SP	off	off	B, C1, C2, C5
10	2017SP	off	on	B, C1, C2, C5
11	2017SP	on	off	B, C1, C2, C5
12	2017SP	on	on	B, C1, C2, C5

IV. STUDY CRITERIA AND METHODOLOGY

Siemens PTI's Power System Simulator for Engineering (PSS/E) and Managing and Utilizing System Transmission (MUST) were used to perform AC contingency analysis. Contingency analysis is the study of transmission system facility outages. Outages of transmission facilities are applied to a mathematical model of the transmission system in order to calculate the effects on the remainder of the system. The models were solved with automatic control of Load Tap Changers (LTCs), phase shifters, DC taps, switched shunts enabled (regulating), and area interchange disabled. The results are compared to determine if there were any criteria violations due to the change in the status for the unit(s).

a. Applicable Reliability Planning Criteria

MISO Transmission Owners

AMIL Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for AMIL System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for AMIL System

AMIL Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, all substation voltages less than 95% or above 105%
- For Category B and C contingencies, all substation voltages less than 90% or above 110%

BREC Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for BREC System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for BREC System

BREC Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, all substation voltages less than 95% or above 105%
- For Category B and C contingencies, all substation voltages less than 90% or above 110%

DEI Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for DEI System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for BREC System

DEI Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 105%

HE Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for HE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for HE System

HE Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

SIGE Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for SIGE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for SIGE System

SIGE Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 95% or above 105%

SIPC Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for SIGE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for SIGE System

SIPC Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 91% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 91% or above 105%

Non-MISO Transmission Owners

LGEE Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for LGEE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for LGEE System

LGEE Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

TVA Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for TVA System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for TVA System

TVA Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

AECI Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for AECI System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for AECI System

AECI Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

Under category C contingencies, for the valid thermal and voltage violations as specified above, generation re-dispatch, system reconfiguration, and/or load shedding will be considered if applicable.

b. MISO Transmission Planning BPM - SSR Criteria

As specified in MISO BPM-020-r8, the SSR criteria for determining if an identified facility is impacted by the generator change of status will be:

• Under system intact and contingent events, branch thermal violations are only valid if the flow increase on the element in the "after" retirement scenario is equal to or greater than:

- a) 5% of the "to-be-retired" unit(s) MW amount (i.e. 5% Power Transfer Distribution Factor (PTDF)) for a "base" violation compared with the "before" retirement scenario, or
- b) 3% of the "to-be-retired" unit(s) amount (i.e. 3% Outage Transfer Distribution Factor (OTDF)) for a "contingency" violation compared with the "before" retirement scenario.
- Under system intact and contingent events, high and low voltage violations are only valid if the change in voltage is greater than 1% as compared to the "before" retirement voltage calculation.

c. Contingencies

A subset of the MISO Transmission Expansion Plan (MTEP) contingencies in the central region was used for AC contingency analysis. Additional contingencies from TVA, LG&E, and AECI were included in this analysis to provide coverage for events on those adjacent transmission systems.

The following North American Electric Reliability Corporation (NERC) Categories of contingencies were evaluated:

- 1. Category A when the system is under normal conditions.
- 2. Category B contingencies resulting in the loss of a single element.
- 3. Category C contingencies resulting in the loss of two or more (multiple) elements.
- 4. Maintenance outage condition with forced outage during shoulder load conditions.

V. STUDY RESULTS

a. Branch Results (Appendix A Table 1a)

Table 1a in Appendix A shows contingent conditions causing branch criteria violations without Coleman Units 1 & 2 & 3 and the improvements resulting from the operation of Coleman Units 1 & 2 & 3. Contingent events causing branch violations include NERC Categories B, C1, C2, and C3. While the study scenario with Century Aluminum off does indicate fewer constraints, there remain a few thermal loading issues resulting from Category C contingencies that exist in the MISO Transmission system even with the load removed.

b. Voltage Results (Appendix A Table 1b)

Significant voltage criteria violations associated with the suspension of Coleman Units 1, 2, & 3 and continued operation of Century Aluminum were identified when compared to the continued availability of the units. Table 1 in Appendix A shows contingent conditions causing criteria violations without Coleman Units 1, 2, & 3 and the improvements resulting from the operation of Coleman Units 1, 2, & 3. Contingent events causing voltage criteria violations include NERC Categories B, C1, C2, and C3. The acceptable post-contingency voltage range is between 0.92 per unit to 1.07 per unit. Therefore, voltages less than 0.92 or greater than 1.07 per unit are a

criteria violation. If Century Aluminum were to cease operations, with a load of 0 MVA, the voltage issues within the MISO would be eliminated.

VI. POTENTIAL SSR AGREEMENT COST ALLOCATION

MISO utilizes a load shed methodology to determine the reliability benefits to each MISO Local Balancing Area (LBA) of operation, without the SSR unit(s). Although load shed is not permitted for NERC Category A or B events, this methodology determines the load shed amount needed to relieve all Category B reliability issues and the most severe Category C reliability issues identified, as a proxy for the reliability benefit of the SSR unit operation. The potential SSR Agreement LBA shares that were calculated for this Attachment Y-2 study are included below in Table 2.

Table 2: Potential SSR Agreement LBA Shares

LBA	Load Shed (MW)	LBA Share
BREC	1541.84	91.63%
SIGE	76.11	4.52%
AMIL	63.02	3.75%
DEI	1.72	.10%
Total	1682.69	100.00%

VII. CONCLUSION

The study results indicate that potential reliability issues exist which would require the need for Coleman Units 1, 2 and 3 to enter into an SSR Agreement if a mitigation plan is not developed and implemented prior to the potential unit change of status, in accordance with Section 38.2.7 of the MISO Open Access Transmission, Energy & Operating Reserve Markets Tariff ("Tariff"). In addition to determining if reliability issues result from the suspension, further analysis was performed to identify the areas that are subject to allocation of the SSR costs. The areas identified for the cost allocation are Big Rivers Electric Corporation (BREC), Southern Illinois Gas & Electric (SIGE), Ameren Illinois (AMIL), and Duke Energy Indiana (DEI).

VIII. APPENDICES

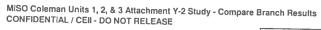
Appendix A: Steady-State AC Contingency Results

Table 1a:

Branch Results

Table 1b:

Voltage Results



		Limiting Element										44 4 4		7
odel	Contingency Description	15:15:14(km) 20:20:20:27 (cm) 20:00:10	7.67.0	THE RESERVE	Coleman	1, Z, & 3 OF	Loading	Coleman	1,2, & 3 01	Loading	MWoff-	Unit Impac	70000	
014SP		** From bus *** To bus ** CKT	Type	Rating	Cont MVA	Flow	%	Cont MVA	Flow	-Cosaing	MWon-	(> 5%)	(> 3%)	MISO Comments
	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	335.0	239.6	100.0		#N/A	#N/A	#N/A	(2 2 M)	#N/A	MISO Comments
14SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335			A		#N/A	#N/A	#N/A	-		
14SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	ILN	335		239 6		***	#N/A	-	of all below when the party		#N/A	
114SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	1 N	335		239 6				#N/A	#N/A		#N/A	Violation caused by suspension
)14SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN				ė		#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
)14SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1		335	termination.	239.6	the same walling		#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69.0 248861 07TRY 69 69.0 1	LN	335		239 6		Part and I have been	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		LN	35		25.6	102.7	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	(REDACTED CONTINGENCY)	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	Deveryour and the same	239,6	146.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	491.0	239,6	146.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69,0 248861 07TRY 69 69,0 1	LN	35	35.9	25.6	102.7	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
14SP		.248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	1	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	491.0	239 6	146.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	.248642 07MIDWAY 69.0 248861 07TRY_69 69.0 1	LN	35	35.9	25.6			#N/A	#N/A	#N/A	··· ···	#N/A	
	[REDACTED CONTINGENCY]	253580 10NTVL16 161 253581 10NTVL13 138 T5	TR	176		91.9			#N/A	#N/A	#N/A		-	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	491.0			-	#N/A				#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	ILN	335	491.0				THE PERSON NAMED IN	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69.0 248861 07TRY_69 69.0 1	LN	35				#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1		-	35.9	25.6			#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		LN	335	335.3	239 6		#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		LN	335	335.3	239.6	100_1	#N/A	#N/A	#N/A	#N/A	1	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	4	#N/A	Violation caused by suspension
114SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
)14SP		248642 07MIDWAY 69.0 248861 07TRY_69 69.0 1	LN	35	35.9	25.6	102.7	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	324094 2TRTLE CRK 769.0 324562 2HAR557 69.0 1	LN	35	37,8	13.3	108.0	#N/A	#N/A	#N/A	#N/A	-	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	324543 2FOUR M 69.0 324686 2PINEVI 69.0 1	LN	32	33.6	15.4	105.0	H	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SPCentoff	[REDACTED CONTINGENCY]	249631 08THRNTN 230 991964 THORNTWN 1 00 1	TR	69.9	87.3	48.7	125.0		#N/A	#N/A	#N/A		#N/A	I THE RESIDENCE OF THE PARTY OF
014SPCentoff	[REDACTED CONTINGENCY]	250310 08BRINGH 69.0 250451 08FLORAJ 69.0 1	I.N	34	37.4	3.0	110.0	***	#N/A	#N/A	#N/A	-		Violation caused by suspension
014SPCentoff	[REDACTED CONTINGENCY]	250321 08BURROW 69.0 250790 08ROCKFL 69.0 1	LN	34	47.6	8.1	139.9	***************************************				1	#N/A	Violation caused by suspension
014SPCentoff	[REDACTED CONTINGENCY]	250441 08FFWSTJ 69.0 250457 08FRAK B 69.0 1	LN	100.3	112.0		·	Tremmin to to disease.	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
14SPCentoff	[REDACTED CONTINGENCY]	250451 08FLORAJ 69 0 250790 08ROCKFL 69.0 1	IN	34	43.6	57,8	111.7		#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
14SPCentoff	[REDACTED CONTINGENCY]	250457 08FRAK B 69.0 250683 08MIDLFO 69.0 1	-			4,5	128.2		#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
14SPCentoff	[REDACTED CONTINGENCY]		LN	45	87.1	31.3	193.6		#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
014SPCentoff	[REDACTED CONTINGENCY]	250608 08KOK HP 69,0 250610 08KOHAJ1 69,0 1	LN	45	129.0	10.3	286.6	#N/A	#N/A	#N/A	#N/A	1	#N/A	Violation caused by suspension
14SPCentoff	[REDACTED CONTINGENCY]	250608 08KOK HP 69.0 250614 08KOSE 69 0 1	LN	65	69.7	44.0	107,2	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
14SPCentoff	[REDACTED CONTINGENCY]	250610 08KOHAJ1 69.0 250798 08RUSIAV 69.0 1	LN	45	129.5	10.3	287.9	#N/A	#N/A	#N/A	#N/A	1	#N/A	Violation caused by suspension
014SPCentoff		250625 08LAF 69.0 250948 08WVMONI 69.0 1	LN	45	66.9	18.0	148.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	250683 08MIDLFO 69.0 250795 08ROSSVL 69.0 1	LN	44	52.7	6.1	119.8	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
14SPCentoff	[REDACTED CONTINGENCY]	250683 08MIDLFO 69.0 250798 08RUSIAV 69.0 1	LN	44	150.2	9.6	341.3	#N/A	#N/A	#N/A	#N/A		#N/A	T
114SPCentoff	[REDACTED CONTINGENCY]	250795 08ROSSVI, 69.0 250948 08WVMONI 69.0 1	LN	45	65.9	17.0	146.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
14SPCentoff	[REDACTED CONTINGENCY]	250847 08THRNTW 69.0 991964 THORNTWN 1.00 1	TR	69.9	84.1	47.2	120.4	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	342.6	248.6	102.3	#N/A	#N/A	#N/A	#N/A	-		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	342.6	248.7		117.07.1			9.010.0011111	ļ	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	354.5		102.3	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1		· · · · · · · · · · · · · · · · · · ·		248.6	105.8		#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]		LN	335	354.5	248.7	105.8	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	REDACTED CONTINGENCYI	the state of the s	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	,248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69.0 248861 07TRY_69 69.0 1	LN	35	35.8	24.9	102.3	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP		248435 07NWTVL1 161 253580 10NTVL16 161 1	!LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69 0 248861 07TRY_69 69 0 1	LN	35	35.8	24 9	102.3	#N/A	#N/A	#N/A	#N/A	T	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A	+	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A	-	#N/A	
17SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69 0 248861 07TRY 69 69 0 1	LN	35	35.8	24.9	102.3	#N/A	#N/A			+		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	253510 10NE13 138 253511 10NE69 69 0 T2	TR	72	72.0	70.4	100,0	#N/A		#N/A	#N/A	armonia.	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A		#N/A	
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	of second or to the	497 6				#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69.0 248861 07TRY 69 69.0 1		335	-	248.7	148.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]		LN	35	35 8	24.9	102 3	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248807 07DOGWOD 69.0 248808 07MAUKPT 69.0 1	LN	25	27.5	26.5	109 9	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248807 07DOGWOD 69.0 248808 07MAUKPT 69.0 1	LN	25	27.5	26.5	109.9	#N/A	#N/A	#N/A	#N/A	10000	#N/A	Violation caused by suspension
17SP		248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	354.5	248.6	105.8	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	354.5	248.7	105,8	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
117SP	[REDACTED CONTINGENCY]	248435 07 NWTVL1 161 253580 10NTVL16 161 1	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
HOP	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	iLN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A			Violation caused by suspension

MISO Coleman Units 1, 2, & 3 Attachment Y-2 Study - Compare Branch Results CONFIDENTIAL / CEII - DO NOT RELEASE

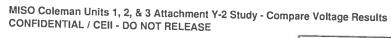
		Limiting Element		2012/12/02	Coleman 1,	2, & 3 OF	F	Coleman 1	2, & 3 ON		DIAM	Unit Imp	net	7
Aodel	Contingency Description	** From bus ** ** To bus ** CKT	Ting	- Amor		Base	Loading	-	Hase	Loading	MWoff-	PIDF	OTDF	
017SP	[REDACTED CONTINGENCY]	248642 07MIDWAY 69.0 248861 07TRY_69 69.0 1	Туре	Rating	Cont MVA		%	Cont MVA	Flow	%	MWon	(> 5%)	(>3%)	MISO Comments
017SP	[REDACTED CONTINGENCY]	362186 2WATAUGA HP 69.0 362187 2ELIZABETHTN69.0 1	LN	35	-	24.9	102.3	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
017SPCentoff	[REDACTED CONTINGENCY]	248807 07DOGWOD 69.0 248808 07MAUKPT 69.0 1	LN	58.4	62.7	61,4	107.3		#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
017SPCentoff	[REDACTED CONTINGENCY]		LN	25		27.2	112.8	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
017SPCentoff	[REDACTED CONTINGENCY]	248807 07DOGWOD 69.0 248808 07MAUKPT 69.0 1	LN	25	111111111111111111111111111111111111111	27.2	112.8	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
017SPCentoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	LN	58.4	62.2	61,2	106.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
017SPCentoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	LN	58.4	50.0	61.2	102.8	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	LN	58.4	62.2	61.2	106.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	347946 4PANA 138 348788 4SCHRAMCY TP 138 1	LN	202	232.8	38.0	115.2	219.4	35.0	108.6	13.4	4	3.0248307	Violation made worse by suspension
017SH	[REDACTED CONTINGENCY]	348067 7RAMSEY 345 348068 4RAMSEY CIPS 138 1	TR	382	388.9	94.9	101.8	371.0	95.6	97.1			4.0406321	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	348067 7RAMSEY 345 348068 4RAMSEY CIPS 138 1	TR	382	388,3	94.9	101.7	370.5	95.6	97.0		-	4.0180587	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 253580 10NTVL16 161 1	LN	335	434.2	133.5	129.6	#N/A	#N/A	#N/A	#N/A	-	#N/A	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	248435 07NWTVL1 161 340552 5COLEMAN 161 1	LN	335	434.4	133.6	129.7	#N/A	#N/A	#N/A	#N/A		#N/A	The state of the s
017SH		248642 07MIDWAY 69.0 248861 07TRY_69 69.0 1	LN	35	37.1	24.6	106.D	#N/A	#N/A	#N/A	#N/A	-	#N/A	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	324578 2HRDSTB 69.0 324769 2WALKRKU 69.0 1	LN	28	29.0	11.0	103.4	#N/A	#N/A	#N/A	#N/A			Violation caused by suspension
)17SH	[REDACTED CONTINGENCY]	324628 2MARI S 69.0 324629 2MARONKU 69.0 1	LN	28	28.4	19.6	101.5		#N/A			-	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.6	62.7	105.5	#N/A	#N/A	#N/A	#N/A	-	#N/A	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	325077 5COLEMAN TAP 161 325078 5PADUCAH PRI 161 1	ILN	245	251.4	181.2	102.6	236.0	4115	#N/A	#N/A		#N/A	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	340618 5LIVING 161 360016 5MARSHALL KY 161 1	LN	223	238.1	63.0			172.3	96.3	. 15.4	-	3.476298	The state of the s
117SH	[REDACTED CONTINGENCY]	340618 5LIVING 161 360326 5BARKLEY HP 161 1	LN	223	281.2		106.8	214.2	56,1	96.1	23.9	·	5.3950339	Tricinati deserge of occoportators
117SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	ILN	58.4	281.2 61.7	92.6	126.1	250.2	79.5	112.2	31.0)	6.9977427	Violation made worse by suspension
17SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	LN		****	62.7	105.6	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.7	62.7	105.6	#N/A	#N/A	#N/A	#N/A	l	#N/A	Violation caused by suspension
017SH	[REDACTED CONTINGENCY]	325077 5COLEMAN TAP 161 325078 5PADUCAH PRI 161 1		58.4	61,7	62.7	105.6	#N/A	#N/A	#N/A	#N/A	1	#N/A	Violation caused by suspension
)17SH	[REDACTED CONTINGENCY]	340618 5LIVING 161 360016 5MARSHALL KY 161 1	LN	245	248.9	181.2	101.6	233.5	172.3	95.3	15.4	į	3.476298	Violation caused by suspension
17SH	[REDACTED CONTINGENCY]		LN	223	232.5	63.0	104.3	#N/A	#N/A	#N/A	#N/A	Į.	#N/A	Violation caused by suspension
17SH	(REDACTED CONTINGENCY)	The state of the s	LN	223	274.7	92.6	123.2	243.6	79.5	109.2	31.1		7.020316	Violation made worse by suspension
17SHCentoff	[REDACTED CONTINGENCY]	362186 2WATAUGA HP 69 0 362187 2ELIZABETHTN69 0 1 348774 7BALDWIN 345 348776 7TURKEY HILL 345 1	LN	58.4	60,6	61.6	103.8	#N/A	#N/A	#N/A	#N/A	-	#N/A	Violation caused by suspension
017SHCentoff	[REDACTED CONTINGENCY]	The state of the s	LN	956	1177.0	693.4	123.1	1161.5	692.2	121.5	15.5		3.4988713	Violation made worse by suspension
17SHCentaff	[REDACTED CONTINGENCY]	348728 4W MT VERN W 138 348827 7W MT VERNON 345 1	TR	448	465.3	250 7	103 9	451.7	249.1	100.8	13.6		3.0699774	Violation made worse by suspension
17SHCentoff	(REDACTED CONTINGENCY)	347016 4EFFGHMNW 138 347024 4EFFINGHM 138 1	LN	263	293 2	60.8	111.5	279.5	60.2	106.3	13.7	1		Violation made worse by suspension
	[REDACTED CONTINGENCY]	347016 4EFFGHMNW 138 347024 4EFFINGHM 138 1	LN	263	293.5	60.8	111.6	279.7	60.2	106.4	13.8			Violation made worse by suspension
17SHCentoff	[REDACTED CONTINGENCY]	347946 4PANA 138 348788 4SCHRAMCY TP 138 1	LN	202	236.0	39 5	116.9	220.2	35.8	109.0	15.8			Violation made worse by suspension
17SHCentoff	[REDACTED CONTINGENCY]	348730 4MIDWAY E 138 348788 4SCHRAMCY TP 138 1	LN	202	266.3	73.5	131.8	251.0	70.2	124.2		**************		Violation made worse by suspension
100	The Mark Comment of the Comment of t	347946 4PANA 138 348068 4RAMSEY CIPS 138 1	LN	264	266.4	44.5	100.9	251.3	44.8	95.2	15.1	***************************************		Violation caused by suspension
	[REDACTED CONTINGENCY]	348067 7RAMSEY 345 348068 4RAMSEY CIPS 138 1	TR	382	390.9	95.5	102 3	370.2	96.0	96.9	20.7	-		
	[REDACTED CONTINGENCY]	347946 4PANA 138 348068 4RAMSEY CIPS 138 1	LN	264	266.3	44.5	100.9	251.2	44.8	95.11	15.1			Violation caused by suspension
	[REDACTED CONTINGENCY]	348067 7RAMSEY 345 348068 4RAMSEY CIPS 138 1	[TR	382	390.4	95.5	102.2	369.6	96.0	96.87	20.8			Violation caused by suspension
	[REDACTED CONTINGENCY]	348774 7BALDWIN 345 348776 7TURKEY HILL 345 1	ILN	956	1054.9	693.4	110.3	1039 9	692.2	108.8	15.0	***********		Violation caused by suspension
	[REDACTED CONTINGENCY]	348774 7BALDWIN 345 348775 4BALDWIN 138 1	TR	448	470.3	293.8	105.0	456.3	287.1	101.8	14,0	·		Violation made worse by suspension
	[REDACTED CONTINGENCY]	350204 4CAMPBELLHIL 138 350205 5CAMPBELLHIL 161 1	TR	224	323.8	25.8	144.5	295.9	22.6		*****************			Violation made worse by suspension
	[REDACTED CONTINGENCY]	300061 5BOONE 161 300493 2BOONE 69.0 1	TR	112	126.0	92.7	112.5	111.6	92.8	132.1	27.9			Violation made worse by suspension
	[REDACTED CONTINGENCY]	324512 2EDDY P 69 0 324693 2PRINCE 69 0 1	LN	64	67.8	32.1	106.0	#N/A	#N/A	99.7	14.4 #N/A		3.2505643	Violation caused by suspension
	[REDACTED CONTINGENCY]	324512 2EDDY P 69.0 362916 2KY DAM 69.0 1	LN	70	71.5	35.8	102.1	#N/A					#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	360103 5PHIPPS B NP 161 360705 5JSEV C34 TP 161 3	LN	472.1	492.1	319.4			#N/A	#N/A [#N/A		#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69 0 362496 2WATTROAD TN69.0 1	LN	58.4	61,6		104.2	478.7	314.4	101.4	13.4		3.0248307	Violation made worse by suspension
	[REDACTED CONTINGENCY]	340618 5LIVING 161 360016 5MARSHALL KY 161 1	LN	mint.		62.7	105.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
17SHCentoff	[REDACTED CONTINGENCY]	340618 5LIVING 161 360326 5BARKLEY HP 161 1	ILN	223	224.2	59.3	100.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1		223	261.8	83.9	117.4	230.1	70.6	103.2	31.7		7 1557562	Violation made worse by suspension
17SHCentoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN 69.0 362496 2WATTROAD TN69.0 1	LN	58.4	63.9	62.7	109.5	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]		LN	58.4	61.7	62.7	105.7	#N/A	#N/A	#N/A	#N/A		#N/A	Violation caused by suspension
	REDACTED CONTINGENCY	340618 5LIVING 161 360326 5BARKLEY HP 161 1	LN	223	255.3	83.9	114.5	223.6	70.6	100.3	317		7 1557500	Violation made worse by suspension



		Limiting										Coleman 1,2, & 3 ON]
Model	Contingency Description	- 44.45		S fair a	26.0%	19:43	Low	Upp		1, 2, & 3 OFF	Ooleman	1,2, 6 3 01		Impact Voff-Von	
2014SP	[REDACTED CONTINGENCY]	Bus #	Bus Name	KV	Area	Zone	Limit	Limit	Cont Volt	Base Volt Viol	Cont Volt	Base Vol	Viol	(>0.01)	MISO Comments
2014SP	[REDACTED CONTINGENCY]		07NWTVL1	161	207	1207		·	0,8516	0.9693 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		07NWTNVL	161	207	1207				0.9793 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		5COLEMAN	161	314	1314			0.8125	0.9607 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		5HANCO	161	314	1314	-	1.05	0.8214	0,9669 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	The second secon	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9798 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP			5DAVIS	161	314	1314		1,05	0.9081	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		5NATAL	161	314	1314	0.92	1.05	0.8235	0.97 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314	0.92	1.05	0.8958	0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		5COLEEHV	161	314	1314	0.92	1.05	0,8171	0.9676 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		07NWTVL1	161	207	1207	0.9	1.1	0.8516	0.9693 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		07NWTNVL	161	207	1207	0.9	1.1	0.873	0.9793 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]		5COLEMAN	161	314	1314	0.92	1.05	0.8125	0.9607 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8214	0.9669 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9798 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92		0.9081	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	A		0.9928 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY[340564	5NATAL	161	314	1314		1.05			#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05			#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	h		0.8171	0.9676 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207			0.8516		#N/A	#N/A	#N/A	#N/A	
014SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.9		0.873	0.9793 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		5COLEMAN	161	314	1314			0.8125	0.9607 L	#N/A	#N/A	#N/A		Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314		1.05	0.8214	0.9669 L	#N/A		-	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	A CONTRACTOR OF THE PARTY OF TH		0.8487		-	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340559		161	314	1314		1.05	0.9081	0.9798 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		7COLEMAN	345	314	1314	0.92	1.05		0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340564		161	314	1314			0.8171	0.9928 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314			0.8235	0.97 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		5COLEEHV	161	314	_		_	0.8958	0.9743 L	#N/A	#N/A	#N/A		Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340559		161	314	1314		1.05	0.8171	0.9676 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		5NEWMAN	161		1314		1.05	0.9029	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340559		-	314	1314		1.05	0.8905	0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314		1.05	0.9028	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
014SP	[REDACTED CONTINGENCY]	340559		161	314	1314	0.92	1.05	0.8905	0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)14SP	[REDACTED CONTINGENCY]			161	314	1314	0.92	1.05	0.9028	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314	0.92	1.05	0.8905	0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]	340559		161	314	1314	0.92	1.05	0.9028	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314		1.05	0.8905	0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]	340559		161	314	1314	0.92	1.05	0.9028	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314	0.92	1.05	0.8905	0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07BRISTW	161	207	1207	0.9	1.1	0.846	1.0033 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07NWTVL1	161	207	1207	0.9	1.1	0.7325	0.9693 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07TRY161	161	207	1207	0.9	1.1	0.7926	0.9907 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07NWTNVL	161	207	1207	0.9	1.1	0.7605	0.9793 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP			5COLEMAN	161	314	1314	0.92	1.05	0.6378	0.9607 L	#N/A	#N/A	#N/A		Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07NWTVL1	161	207	1207	0.9	1.1	0.8516	0.9693 L	#N/A	#N/A	#N/A		Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07NWTNVL	161	207	1207	0.9	1.1	0.873	0.9793 L	#N/A	#N/A	#N/A		Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5COLEMAN	161	314	1314	0.92	1.05	0.8125	0.9607 L	#N/A	#N/A	#N/A		Violation caused by suspension
14SP	[REDACTED CONTINGENCY]	340557		161	314	1314	0.92	1.05	0.8214	0.9669 L	#N/A	#N/A	#N/A		Violation caused by suspension
1405	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9798 L	#N/A	#N/A	#N/A		Violation caused by suspension



		Limiting	Element					Coleman	1, 2, & 3 OFF	Coleman 1,2, & 3 ON			Unit Impact		
Aodel	Contingency Description	Bus#	Bus Name	KV	Area	Zone	Low	Upp	Cont Volt	Bass Vall Vall	0			Voff-Von	
)14SP	[REDACTED CONTINGENCY]		5DAVIS			314 131				Base Volt Viol	Cont Volt		1	(>0.01)	MISO Comments
14SP	[REDACTED CONTINGENCY]		5NATAL			314 131	Anne armener vanadrananske				#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5NEWMAN	vent-and discovered		314 131	and or a second				#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5COLEEHV			314 131			nerrores-sub-y		#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY[5MEADE			131		+		I	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5N.HARD			114 131					#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5MEADE			131			0.8616		#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5N.HARD			131		-	0.8775	0.9851 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
I4SP	[REDACTED CONTINGENCY]	340559				114 131	~	·	0.8616	0.9957 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		5NEWMAN			114 131				0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07NWTVL1							0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
14SP	[REDACTED CONTINGENCY]		07NWTNVL						0.8516	0.9693 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
I4SP	[REDACTED CONTINGENCY]		5COLEMAN			07 120			0.873	0.9793 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]		5HANCO			14 131		1.05	0.8125	0.9607 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	REDACTED CONTINGENCY		5SKILMAN			14 131			0.8214	0.9669 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]	340559							0.8487	0.9798 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]	·	7COLEMAN				-	1.05	0.9081	0.9855 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]	340564				14 131		1.05	0.8171	0.9928 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]	······································				14 131	-		0.8235	0.97 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]		5NEWMAN			14 131			0.8958	0.9743 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]		5COLEEHV			14 131			0.8171	0.9676 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]	·	5DORCHST			63 379		1.1	0.8832	1.0034 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]		5IMBODEN			63 379	1	1.1	0.8724	1.0025 L	1.1048	1.003		-0.232	Violation caused by suspension
4SP	[REDACTED CONTINGENCY]		5POCK N			63 37	-44	1.1	0.8677	1.0048 L	1.111	1.0053	Н	-0.243	Violation caused by suspension
4SPCentoff			5POCKET			63 379			0.8677	1.0047 L	1.111	1.0052	Н	-0.243	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]		4SPENC			63 380		1.1	0.8823	0.9699 L	0.8718	0.9699	L		Pre-exsting
7SP	[REDACTED CONTINGENCY]		07NWTVL1			07 1207	0.9	1.1	0.8482	0.9696 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]		07NWTNVL			07 1207	·		0.8697	0.979 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP			5COLEMAN			14 1314	0.92	1.05	0.8085	0.9602 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]		5HANCO			14 1314		1.05	0.8173	0.9662 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	·	5SKILMAN		161 3		0.92	1.05	0.8454	0.9791 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	340559			161 3		0.92	1.05	0.9049	0.984 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	340564				14 1314	0.92	1.05	0.8197	0.9694 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]		5NEWMAN			14 1314		1.05	0.8928	0.973 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]		5COLEEHV			14 1314	·	1.05	0.8132	0.967 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	·····	07NWTVL1	100 1	161 2	07 1207	0.9	1.1	0.8482	0.9696 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]		07NWTNVL	1	161 2	07 1207	0.9	1.1	0.8697	0.979 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP 7SP	[REDACTED CONTINGENCY]		5COLEMAN	110 1	161 3	14 1314	0.92	1.05	0.8085	0.9602 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP 7SP	[REDACTED CONTINGENCY]	······································	5HANCO			14 1314	0.92	1.05	0.8173	0.9662 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]		5SKILMAN		61 3	14 1314	0.92	1.05	0.8454	0.9791 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	340559				14 1314	0.92	1.05	0.9049	0.984 L	* #N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]		7COLEMAN	3	3 3	14 1314	0.92	1.05	0.8132	0.9921 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	340564				14 1314	0.92	1.05	0.8197	0.9694 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]		5NEWMAN	1	61 3	14 1314	0.92	1.05	0.8928	0.973 L	#N/A	#N/A	#N/A		Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	1 1	61 3	14 1314	0.92	1.05	0.8132	0.967 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	1	61 2	07 1207	0.9	1.1	0.8482	0.9696 L	#N/A	#N/A	#N/A		Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	253581	10NTVL13	1	38 2			1.05	0.9354	0.9903 L	#N/A	#N/A	#N/A		Violation caused by suspension
7SP	REDACTED CONTINGENCY[340552	5COLEMAN	1	61 3	14 1314		1.05	0.8085	0.9602 L	#N/A	#N/A	#N/A		Violation caused by suspension
'SP	[REDACTED CONTINGENCY]	340557	5HANCO	1	61 3			1.05	0.8173	0.9662 L	#N/A	#N/A	#N/A		Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	340558	SKILMAN	1	61 3			1.05	0.8454	0.9791 L	#N/A	#N/A	#N/A		Violation caused by suspension



		Limiting	Element	1			Low	Illan	Coleman	1, 2, & 3 OFF	Coleman	1,2, & 3 ON		Unit Impact	
Mode!	Contingency Description	Bus #	Bus Name	KV	Area	Zone	Limit	Upp	Cont Vall	Base Volt Viol	0. 444.4			Voff-Von	
017SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314					_	Base Volt	-	(>0.01)	MISO Comments
)17SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314		-	-		#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]	340564		161	314	1314	-				#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314			-		#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]		5COLEEHV	161	314	1314	_	-			#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]	340559		161	314	1314	-	-			#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314				-		#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]	340559		161	314	1314	-				#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314	-				#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]		10NTVL16			1314					#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]	340559	Annual Contract of the Contrac	161	210	1210	1-		-		#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]			161	314	1314			4		#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]		5NEWMAN	161	314	1314	Toronto.			0.973 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]	340559		161	314	1314	-	-	0.8923	0.984 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]		NEWMAN	161	314	1314	1		0.88	0.973 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
017SP	[REDACTED CONTINGENCY]	340559		161	314	1314	0.92	1.05	0.8923	0.984 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]		NEWMAN	161	314	1314	0.92	1.05	0.88	0.973 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]		7BRISTW	161	207	1207	0.9	1.1	0.8436	1.0012 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP			7NWTVL1	161	207	1207	0.9	1.1	0.7285	0.9696 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]		7TRY161	161	207	1207	0.9	1,1	0.7892	0.9896 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]	248887	7NWTNVL	161	207	1207	0.9	1.1	0.7568	0.979 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
117SP	[REDACTED CONTINGENCY]	340552	COLEMAN	161	314	1314	0.92	1.05	0.6327	0.9602 L	#N/A	#N/A	#N/A	#N/A	
117SP	[REDACTED CONTINGENCY]	248435	7NWTVL1	161	207	1207	0.9		0.8482	0.9696 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]	248887 (7NWTNVL	161	207	1207	0.9		0.8697	0.979 L	#N/A	#N/A	#N/A		Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]	340552	COLEMAN	161	314	1314	0.92	1.05	0.8085	0.9602 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
117SP	[REDACTED CONTINGENCY]	340557	HANCO	161	314	1314	0.92		0.8174	0.9662 L	#N/A		_	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]	340558 5	SKILMAN	161	314	1314	0.92		0.8455	0.9791 L		#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]	340559		161	314	1314	0.92	1.05	0.9049	0.9791 L 0.984 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]	340564 5	NATAL	161	314	1314	0.92	1.05	0.9049	0.9694 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
)17SP	[REDACTED CONTINGENCY]		NEWMAN	161	314	1314	0.92				#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]		COLEEHV	161	314	1314		1.05	0.8928	0.973 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340566 5	-A	161	314		0.92	1.05	0.8132	0.967 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340616 5		161	314	1314	0.92	1.05	0.8653	0.9846 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	253580 1				1314	0 92	1.05	0.8484	0.9956 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	253580 1		161	210	1210	0.95	1.05	0.9367	0.9697 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340566 5	The second second	161	210	1210	0 95	1.05	0.9367	0.9697 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]			161	314	1314	0.92	1.05	0.8654	0.9846 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340616 5	****	161	314	1314	0.92	1.05	0.8484	0.9956 L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340559 5		161	314	1314	0.92	1.05	0.8952	0.984 L	#N/A	#N/A	#N/A		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340565 5		161	314	1314	0.92	1.05	0.8829	0.973 L	#N/A	#N/A	#N/A		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248435 0		161	207	1207	0.9	1.1	0.8482	0.9696 L	#N/A	#N/A	#N/A		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	248887 0		161	207	1207	0.9	1.1	0.8697	0.979 L	#N/A	#N/A	#N/A		Violation caused by suspension
17SP			COLEMAN	161	314	1314	0.92	1.05	0.8085	0.9602 L	#N/A	#N/A	#N/A		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340557 5		161	314	1314	0.92	1.05	0.8173	0.9662 L	#N/A	#N/A	#N/A	-	Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340558 5		161	314	1314	0.92	1.05	0.8454	0.9791 L	#N/A	#N/A	#N/A		Violation caused by suspension
	[REDACTED CONTINGENCY]	340559 5		161	314	1314	0.92	1.05	0.9049	0.984 L	#N/A	#N/A	#N/A		
17SP	[REDACTED CONTINGENCY]	340563 7	COLEMAN	345	314	1314	0.92	1.05	0.8132	0.9921 L	#N/A		#N/A		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340564 5	NATAL	161	314	1314	0.92	1.05	0.8197	0.9694 L	#N/A		#N/A		Violation caused by suspension
7SP	[REDACTED CONTINGENCY]	340565 5	VEWMAN	161	314	1314	0.92	1.05	0.8928	0.973 L	#N/A				Violation caused by suspension
17SP	[REDACTED CONTINGENCY]	340621 5		161	314	1314	0.92	1.05	0.8132	0.967 L	#N/A		#N/A		Violation caused by suspension
17SP	[REDACTED CONTINGENCY]		HARRIMAN TN	161	347	1368	0.52	1.1	0.7649	1.0426 L	#N/A 0.7822	#N/A 1.0427 L	#N/A		Violation caused by suspension Pre-exsting



		Limiti										Coleman 1,2, & 3 ON			7
Model	Contingency Description		D. A.		100	100	Low	Upp		1, 2, & 3 OFF	Joientall .	, z, a 3 UN	Tank I	Impact Volf-Von	
2017SP	[REDACTED CONTINGENCY]	Bus #		KV	Area	Zone	Limit	Limit	Cont Voit	Base Volt Viol	Cont Volt	Base Volt	Viol	(>0.01)	MISO Comments
017SP	[REDACTED CONTINGENCY]		9 5BLAIR RD TF	16					0.7641	1.0477 L	0.7815			-0.017	Pre-exsting
017SP	[REDACTED CONTINGENCY]		6 SBLAIR RD TN		-		_	-	0.7638	1.0474 L	0.7812	1.0474			Pre-exsting
017SP	[REDACTED CONTINGENCY]		30 SHARRIMAN 1			-		1.1	0.6888	1.0426 L	0.7309	1.0427			Pre-exsting
017SP	[REDACTED CONTINGENCY]		9 5BLAIR RD TP	16	-		-	1.1	0.6889	1.0477 L	0.7311	1.0477.1		-	Pre-exsting
017SP	[REDACTED CONTINGENCY]		6 SBLAIR RD TN			-		1.1	0.6885	1.0474 L	0.7307	1.0474 [Pre-exsting
017SP	[REDACTED CONTINGENCY]		3 5W OAK RIDG			-	-	1.1	0.689	1.0479 L	0.7312	1.0479 L		-	Pre-exsting
017SP	[REDACTED CONTINGENCY]		5HARRIMAN T			4	B 0.9	1.1	0.6979	1,0426 L	0.7309	1.0427,1			Pre-exsting
017SP	[REDACTED CONTINGENCY]		2 5ROANE B#2	16	~ <u>}</u>	-		1.1	0.6981	1.0479 L	0.7312	1.0479 [-	Pre-exsting
017SP	[REDACTED CONTINGENCY]		9 5BLAIR RD TP	16		-	-	1.1	0.6981	1.0477 L	0.7311	1.0477 L			Pre-exsting
017SP	[REDACTED CONTINGENCY]		6 5BLAIR RD TN	161	1	1368	0.9	1.1	0.6976	1.0474 L	0.7307	1.0474 L			Pre-exsting
	[REDACTED CONTINGENCY]		3 5W OAK RIDG		4	1368	0.9	1.1	0.6981	1.0479 L	0.7312		***************************************		Pre-exsting
17SPCentoff			0 5HARRIMAN T	N 16	347	1368	0.9	1.1	0.7308	1.0426 L	0.6782	1.0426 L			Pre-exsting
017SPCentoff	[REDACTED CONTINGENCY] [REDACTED CONTINGENCY]		9 5BLAIR RD TP	161	347	1368	0.9	1.1	0.731	1.0477 L	0.6784	1.0477 L			Pre-exsting
17SPCentoff			6 5BLAIR RD TN	161	347	1368	0.9	1.1	0.7306	1.0474 L	0.6779	1.0474 L			Pre-exsting
17SPCentoff	[REDACTED CONTINGENCY]	36138	3 5W OAK RIDG	161	347	1368	0.9	1.1	0.731	1.0479 L	0.6784	1.0479 L			Pre-exsting
17SPCentoff	[REDACTED CONTINGENCY]	36043	0 5HARRIMAN T	N 161	347	1368	0.9	·		1.0426 L	0.7821	1.0475 L			Pre-exsting
17SPCentoff	[REDACTED CONTINGENCY]	36109	9 5BLAIR RD TP	161	347	1368	0.9		0.7548	1.0477 L	0.7814	1.0420 L			Pre-exsting
	[REDACTED CONTINGENCY]	36114	6 SBLAIR RD TN	161	347	1368	0.9		0.7544	1.0474 L	0.781	1.0474 L			Pre-exsting
17SPCentoff	[REDACTED CONTINGENCY]	36043	0 5HARRIMAN T	V 161	347	1368			0.7308	1.0426 L	0.6782	1.0474 L			Pre-exsting
17SPCentoff	[REDACTED CONTINGENCY]	36109	5BLAIR RD TP	161	347	1368	0.9		0.731	1.0477 L	0.6784	1.0477 L			
17SPCentoff	[REDACTED CONTINGENCY]	36114	5BLAIR RD TN	161	347	1368	-		0.7306	1.0474 L	0.6779	1.0477 L			Pre-exsting
17SPCentoff	[REDACTED CONTINGENCY]	36138	3 5W OAK RIDG	161	347	1368	-		0.731	1.0474 L	0.6784	1.0474 L			Pre-exsting
17SPCentoff	[REDACTED CONTINGENCY]	36136	5WEAVER GA	161	347			1.1	0.5784	1.0104 L	0.5537				Pre-exsting
17SH	[REDACTED CONTINGENCY]	34056	5MEADE	161	314				0.9011	0.9887 L		1.0104 L	// // /		Pre-exsting
117SH	[REDACTED CONTINGENCY]		5N.HARD	161	314		·		0.8889	0.998 L	#N/A		#N/A		Violation caused by suspension
	[REDACTED CONTINGENCY]	24843	07NWTVL1	161	207	1207	•	1.1	0.8438	0.9768 L	#N/A #N/A		#N/A		Violation caused by suspension
17SH	[REDACTED CONTINGENCY]	24886	07TRY161	161		1207	·	1.1	0.8832	0.9700 L 0.9902 L	-		#N/A		Violation caused by suspension
17SH	[REDACTED CONTINGENCY]		7 O7NWTNVL	161		1207		1.1	0.8622	0.9902 L 0.9831 L	#N/A		#N/A		Violation caused by suspension
	[REDACTED CONTINGENCY]		5COLEMAN	161	314	1314		1.05	0.8062	0.9631L 0.9699 L	#N/A		#N/A	#N/A	Violation caused by suspension
	[REDACTED CONTINGENCY]		5HANCO	161	314	1314		1.05	0.8109	0.9696 L	#N/A		#N/A		Violation caused by suspension
	[REDACTED CONTINGENCY]		5SKILMAN	161	314	1314	·	1.05	0.8386		#N/A		#N/A		Violation caused by suspension
	[REDACTED CONTINGENCY]	the same of the sa	5DAVIS	161	314	1314		1.05		0.9824 L	#N/A		#N/A		Violation caused by suspension
17SH	[REDACTED CONTINGENCY]		7COLEMAN	345	314	1314		1.05	0.9048	0.9902 L	#N/A		#N/A		Violation caused by suspension
7SH	[REDACTED CONTINGENCY]	The state of the s	5NATAL	161	314	1314			0.8062	0.9931 L	#N/A		#N/A		Violation caused by suspension
17SH	[REDACTED CONTINGENCY]		SNEWMAN	161	314	1314		1.05	0.8128	0.9724 L	#N/A		#N/A		Violation caused by suspension
I7SH	[REDACTED CONTINGENCY]		5HARRIMAN TN		347	1368	0.92	1.05	0.8933	0.9798 L	#N/A		#N/A		Violation caused by suspension
17SH	[REDACTED CONTINGENCY]	The state of the s	5BLAIR RD TP	161	347			1.1	0.757	1.0422 L	0.7804	1.0424 L			Pre-exsting
7SH	[REDACTED CONTINGENCY]		5BLAIR RD TN	161	347	1368 1368	0.9	1.1	0.7562	1.0473 L	0.7797	1.0474 L			Pre-exsting
	[REDACTED CONTINGENCY]		5HARRIMAN TN		347	1368	0.9	1.1	0.7558	1.047 L	0.7793	1.0472 L			Pre-exsting
17SH	[REDACTED CONTINGENCY]		5BLAIR RD TP	161	347	1368	0.9	1.1	0.757	1.0422 L	0.7803	1.0424 L			Pre-exsting
I7SH	REDACTED CONTINGENCY		5BLAIR RO TN	161	347		0.9	1.1	0.7562	1.0473 L	0.7796	1.0474 L			Pre-exsting
	REDACTED CONTINGENCY]		4SPENC	138	363	1368	0.9	1.1	0.7558	1.047 L	0.7793	1.0472 L			re-exsting
7SHCentoff [REDACTED CONTINGENCY		5HARRIMAN TN	161		380	0.9	1.1	0.8782	0.9682 L	0.8646	0.9682 L		0.014	Pre-exsting
	REDACTED CONTINGENCY]		5BLAIR RD TP	161	347	1368	0.9	1.1	0.757	1.0422 L	0.7803	1.0423 L		-0.023 F	Pre-exsting
	REDACTED CONTINGENCY]		5BLAIR RD TN		347	1368	0.9	1.1	0.7562	1.0473 L	0.7796	1.0474 L		-0.023 F	Pre-exsting
	REDACTED CONTINGENCY[BUNION MS	161	347	1368	0.9	1.1	0.7558	1.047 L	0.7793	1.0471 L		-0.024 F	Pre-exsting
	REDACTED CONTINGENCY		5HARRIMAN TN	500	347	1356	0.9	1.1	0.8606	1.0475 L	0.8793	1.0476 L		-0.019 F	re-exsting
	REDACTED CONTINGENCY]		5BLAIR RD TP	161	347	1368	0.9	1.1	0.757	1 0422 L	0.7803	1.0423 L		-0.023 F	Pre-exsting
7SHCentoff [REDACTED CONTINGENCY]			161	347	1368	0.9	11	0.7562	1.0473 L	0 7796	1 0474 L		-0.023 F	Pre-exsting
	sommochor	361146	5BLAIR RD TN	161	347	1368	0 9	1.1	0 7558	1 047 L	0 7793	1 0471 L			Pre-exsting

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1	Item 3)	Ref	fer to page 5 lines 12-17 of Mr. Berry's Rebuttal Testimony in Case No.
2	2012-00535	where	ein he provides three reasons why it is appropriate for Big Rivers to idle
3	Coleman S	tation,	one of which is that Coleman has higher fuel costs than other Big Rivers
4	units.		
5		a.	If one or more of the Coleman units are designated as SSRs, then how
6			will this affect the fuel costs included in and recoverable from customers
7			through the Company's FAC?
8		b.	Please provide a quantification of the effect on the fuel costs included in
9			the Company's FAC and recoverable from customers if one or more of
10			the Coleman units are designated as SSRs for the entirety of the test year
11			in Case No. 2012-00535.
12		<i>c</i> .	Please explain how the MISO make whole payments compensate Big
13			Rivers for these increased fuel costs and whether the compensation
14			reflects dollar for dollar recovery.
15		d.	If one or more of the Coleman units are designated as SSRs, then how
16			will this affect the environmental consumables included in and
17			recoverable from customers through the Company's environmental
18			surcharge rider?

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1		e.	Please provide a quantification of the effect on the environmental
2			consumables included in the Company's environmental surcharge rider
3			and recoverable from customers if one or more of the Coleman units are
4			designated as SSRs for the entirety of the test year in Case No. 2012-
5			00535.
6			
7	Response)		
8		a.	If one or more of the Coleman units are designated as SSR, the fuel costs
9			will be recovered through the SSR process and will not be included in Big
10			Rivers FAC filings.
11		b.	All variable operating costs are reimbursed under the SSR agreement.
12			See, the MISO tariff section 38.2.7. The fuel costs will not be included in
13			Big Rivers' FAC filings.
14		c.	Big Rivers' understanding is that all actual variable cost, (fuel, reagent and
15			disposal) will be recovered under the SSR agreement. Please refer to
16			section 38.2.7 of the MISO tariff.
17		d.	If one or more of the Coleman units are designated as SSR, the
18	E		environmental consumable costs will be recovered through the SSR

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1		process, and will not be included in Big Rivers' environmental surcharge
2		rider.
3	e.	Big Rivers' understanding is that all actual variable cost, (fuel, reagent and
4		disposal) will be recovered under the SSR agreement. Please refer to
5		section 38.2.7 of the MISO tariff. Please see also, the response to subpart
6		(d), above.
7		
8 Witness)	Rob	ert W. Berry
9		

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1	Item 4)	Ref	er to page 5 lines 12-17 of Mr. Berry's Rebuttal Testimony in Case No.
2	2012-00535 n	here	in he provides three reasons why it is appropriate for Big Rivers to idle
3	Coleman Stat	ion,	one of which is that Coleman has the least amount of pollution control
4	equipment ins	talle	d.
5		a.	Please explain why this is a reason to idle Coleman Station and how this
6			affects the decision to idle Coleman Station.
7		b.	If Big Rivers idles one or more of the Coleman units, does Big Rivers
8			plan to defer the installation of any of the pollution control equipment
9			previously approved by the Commission for recover through the
10			environmental surcharge rider? If it does not plan to do so, then please
11			explain why it should not defer these capital expenditures unless and
12			until the unit is needed for service at some later date in the future.
13			
14	Response)		
15		a.	During Big Rivers' evaluation to determine which unit (Coleman or
16			Wilson) to idle, it considered both current and future environmental
17			regulations. The cost to retrofit Coleman to comply with MATS is
18			approximately three times the cost for Wilson to comply with MATS

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1		Likewise, wilson is compliant with both the proposed Coal Combustion
2		Residual (CCR) regulation and the proposed 316 (a) and (b) regulation,
3		whereas Coleman will potentially require capital investments to comply
4		with each of these proposed regulations.
5		b. At this time, if Big Rivers idles one or more of the Coleman units it will
6		not install the MATS equipment on the idled units unless the SSR extends
7		beyond June 1, 2014. The MATS equipment will be installed prior to
8		restart after April of 2015, if and when the economics support restart of
9		the unit.
10		
11		
12	Witness)	Robert W. Berry
13		

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1	Item 5) Refer to page 5 lines 18-22 of Mr. Berry's Rebuttal Testimony in Case No.
2	2012-00535 wherein he states that whether Coleman is idled or Big Rivers is required to
3	operate Coleman as an SSR, "it will not cause a meaningful financial impact on the rate
4	adjustment Big Rivers seeks in this proceeding." Please describe and provide a copy of all
5	analyses that supports this statement.
6	
7	Response) As stated in Section V of my Rebuttal Testimony, pages 17 through 20, the rate
8	adjustment requested in case No. 2012-00535 is based on Wilson being idled and Coleman
9	operating. Whether Coleman is idled or operating under an SSR, the financial impact for Big
10	Rivers is substantially the same, so the choice will not have a material effect on the requested
11	rate adjustment. The fixed operating costs savings associated with idling Coleman is
12	approximately \$90,000 greater than the fixed operating costs savings included in the requested
13	rate adjustment.
14	I also testified during the evidentiary hearing on July 2, 2013, that the proposed
15	transaction has the potential to impact the requested rate adjustment depending on whether or
16	not a SSR is required of the Coleman plant. If a SSR is required then the severance costs
17	requested in Case No. 2012-00535 will be deferred until the SSR terminates. Also if Century
18	operates at the Base Load amount, Big Rivers will receive transmission revenue from Century.

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1	In either sce	nario, it is Big Rivers' intention to pass along to its Members any benefit above
2	Big Rivers'	reasonable margins resulting from the Century transaction. Since the two
3	scenarios are	uncertain and difficult to determine, no formal analysis has been performed.
4		
5		
6	Witness)	Robert W. Berry
7		
8		

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1	Item 6)	Rej	fer to page 18 lines 13-16 of Mr. Berry's Rebuttal Testimony in Case No.
2	2012-00535	wher	ein he states that "[u]nder the SSR status, MISO retains the revenue from
3	the Coleman	gen	eration to help offset the operation cost so that, essentially, Coleman will
4	not be part o	f Big	Rivers' portfolio."
5		a.	Please explain how it is that MISO retains the revenue from the
6			Coleman generation.
7		b.	Please describe how the revenue is quantified, under what markets the
8			revenue is obtained, and how that is reflected in the MISO make whole
9			payments to Big Rivers.
10			
11	Response)		· ·
12		a.	While Coleman is designated by MISO as an SSR unit, Big Rivers will not
13			receive revenues related to negotiated or market prices for generation
14			produced from Coleman. Instead, MISO will dispatch the unit as needed
15			to satisfy reliability needs. Pursuant to section 38.2.7(h)(ii) of the MISO
16			Tariff, Big Rivers will receive compensation from MISO based on Big
17			Rivers' going forward costs of operating Coleman. Any revenue that is
18	i.		generated by the unit in the day-ahead and real-time market is treated as

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1

1		an offset to the SSR costs that are recovered from load, as discussed to (b),
2		below.
3		b. Revenue can be quantified as payments for resource adequacy and
4		revenues from energy market transactions. MISO's pro forma SSR
5		agreement provides that MISO will conduct an annual true-up, or make-
6		whole payment, to match market and other revenues with the SSR unit's
7		annual revenue requirements, which are based on its costs of operation.
8	x - 1	Through its market settlement process, MISO will issue make-whole
9		payments for hours in which the applicable market-clearing price for the
10	191	SSR unit is less than its applicable cost-based SSR payment, and will debit
11		the settlement statements for each hour in which the applicable market-
12		clearing price is above the applicable SSR payment.
13		
14		
15	Witness)	Robert W. Berry
16		

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1	Item 7) Rej	fer to page 19 lines 17-22 of Mr. Berry's Rebuttal Testimony in Case No.
2	2012-00535 wher	ein he states that the Commission should address the costs and revenues
3	related to Centur	y in Case No. 2013-00221. Mr. Berry further states that "Century has
4	agreed to pay Big	Rivers for any additional out-of-pocket costs it incurs or commits to in
5	connection with th	he Century Transaction".
6	a.	Please list and describe each of the costs that Century has agreed to pay
7		Big Rivers and the revenues that Century will provide Big Rivers.
8	<i>b</i> .	Please describe how the Company and Century will quantify each of the
9		costs and revenues identified in response to part (a) of this question.
10	c.	Please provide a quantification of each of the costs that Big Rivers will
11		incur and the related revenues that Century will pay to Big Rivers in the
12		test year used in Case No. 2012-00535. Please quantify the effect of
13	- 1	each of these costs and revenues on the revenue requirement in Case
14		No. 2012-00535.
15	d.	Please confirm that if the Wilson Station and the Coleman Station
16		continue to operate, then Big Rivers will not incur severance costs and
17		that the claimed revenue requirement in Case No. 2012-00535 should be

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1			reduced to remove the severance-related amortization estimated to idle
2			the Wilson Station.
3		e.	Please confirm that the MISO make whole payments will not provide
4			recovery of capital expenditures at the Coleman Station.
5		f.	Please confirm that the designation of the Coleman units as SSRs will
6			not reduce or eliminate the market price risk associated the generation
7			from those units.
8			
9	Response)		
10		a.	Please see page 10, line 15 through page 11, line 14 of Mr. Starheim's
11			Direct Testimony and page 29, line 7 through p. 33, line 11 of Mr. Berry's
12			Direct Testimony.
13		b.	The costs to be incurred and the revenues to be received by Big Rivers
14			generally are straightforward as to their quantification as nearly all of the
15			costs are amounts determined by reference to amounts invoiced to Big
16			Rivers (e.g., under a Bilateral Contract or from MISO under the MISO
17			Tariff). Big Rivers has the ability to allocate out-of-pocket costs incurred
18			or committed to by Big Rivers with respect to service to Kenergy for the

Response to the Kentucky Industrial Utility Customers, Inc.'s **Initial Request for Information** dated July 2, 2013

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1		benefit of Century. To the extent known to the parties, those items and the
2		bases for allocation of those items are set forth in Exhibit B to the Electric
3		Service Agreement and the Direct Agreement and Exhibit A to the
4		Arrangement Agreement.
5	c.	No formal quantification has been performed because Big Rivers does not
6		know whether Century will operate at the Base Load without Coleman
7		operating or if it will operate above the Base Load with Coleman
8		operating under an SSR status, or will operate under each scenario for
9		some period. Please also see Big Rivers' response to AG 1-1.
10	d.	If the Coleman plant is operated under an SSR then the severance costs
11		related to Case No. 2012-00535 can be deferred until such time Coleman
12		is idled. An amortized portion of the severance costs associated with
13		idling the Wilson plant is included in the revenue requirement in Case No.
14		2013-00199.
15	e.	Pursuant to the standard SSR Agreement set forth in Attachment Y-1 of
16		the MISO Tariff, the annual true-up is intended to match market and other
17		revenues with the SSR unit's annual revenue requirement, which is based
18		on its costs. Through its market settlement process MISO will issue

18

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1			make-whole payments for hours in which the applicable market-clearing
2			price for the SSR unit is less than its applicable cost-based SSR payment,
3			and will debit the settlement statements for each hour in which the
4			applicable market-clearing price is above the applicable SSR payment. As
5			a general matter, the SSR payments are intended to provide recovery for,
6			among other things, going forward capital expenditures necessary to
7			operate the SSR unit. Accordingly, a portion of the make-whole payments
8			will cover going forward capital expenditures at the Coleman Station.
9		f.	Confirmed.
10			
11			
12	Witness)	Rob	ert W. Berry
13			
14			

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

1	Item 8) Refer to page 7 lines 15-18 of Mr. Berry's Rebuttal Testimony in Case No.
2	2012-00535 wherein he states: "MISO, through an SSR, will not pay for interest,
3	depreciation, property tax, or property insurance for an SSR unit. MISO clearly states that
4	an entity would incur those costs regardless of whether the unit was being used for reliability
5	purposes." Please provide a copy of the MISO tariffs and all other source documents relied
6	on for these assertions.
7	
8	Response) Under Section 38.2.7 of the MISO tariff, the owner of the SSR unit will be
9	compensated for property taxes and insurance. But Big Rivers' understanding from MISO has
10	been that property taxes will not be reimbursed. This issue must be resolved with MISO in the
11	negotiation of the SSR Agreement. However, the rate will not include interest or depreciation,
12	or other cost components of a full cost-based rate.
13	Please refer to MISO Tariff section 38.2.7, a copy of which is attached to Big
14	Rivers' response to KIUC 1-1a. Big Rivers has also relied upon the following documents,
15	which are lengthy (total of over 350 pages), and were not copied because they are publicly
16	available in the eLibrary section of the FERC website.
17	 MISO, FERC Filing of SSR Agreement with DTE Elec. Co., Docket No.
18	ER13-1226-000, at 12 (filed Apr. 2, 2013).
	Dict3-1220-000, at 12 (theu Apr. 2, 2013).

Case No. 2013-00221 Response to KIUC 1-8 Witness: Robert W. Berry Page 1 of 2

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1		 MISO, FERC Filing of SSR Agreement with City of Escanaba, Docket
2		No. ER13-38-000 (filed Oct. 5, 2012).
3		
4	Witness)	Robert W. Berry
5		
_		

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 9)	Rej	fer to page 7 line 22 through page 8 line 2 of Mr. Berry's Rebuttal
2	Testimony i	in Cas	se No. 2012-00535 wherein he states: "Century – not Big Rivers or its
3	members –	will p	pay for all costs not reimbursed to Big Rivers related to operating the
4	Coleman St	ation i	under SSR status."
5		a.	Please provide all support for the referenced statement.
6		b.	Please identify all costs that Big Rivers will incur, operating and capital,
7			that Century will not pay for if Coleman is designated an SSR.
8			
9	Response)		
10		a.	Please see Section 4.1(a) and (d) of the Direct Agreement and the
11			definition of "SSR Costs" set forth in Section 1.1.87 of the Electric
12			Service Agreement.
13	a)	b.	The referenced testimony was discussing additional, incremental costs of
14			operating Coleman Station under an SSR agreement. In that context, there
15			are no additional costs that will be borne by Big Rivers; those costs will be
16			borne by Century, assuming that the question is intended to refer to
17			additional costs relating to Plant Coleman incurred as a result of Plant
18			Coleman being designated as a SSR.

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

Witness) Robert W. Berry

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 10) Refer to page 44 lines 4-13 of Mr. Berry's Direct Testimony wherein he states
2	the following:
3	"Offsetting transmission revenue against Century's SSR Costs obligation is
4	reasonable as proposed in the Transaction documents because it will
5	potentially allow the Hawesville Smelter to remain in operation until it can
6	install equipment to eliminate the SSR condition at the Coleman Station. Big
7	Rivers would have received no transmission revenue from Century if it had
8	terminated smelting operations at the Hawesville Smelter. The advantage
9	Kenergy and Big Rivers negotiated in the Century Transaction is that Big
10	Rivers will receive the Century transmission revenue if and when there is no
11	requirement for a SSR Agreement."
12	a. Please explain how offsetting the transmission revenue against
13	Century's SSR Costs obligation will allow the Hawesville Smelter to
14	remain in operation. Please be specific.
15	b. Please explain why Big Rivers and its non-Smelter customers should not
16	retain the Century transmission revenues regardless of whether the
17	Coleman units are designated as SSRs.

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1		c.	Please confirm that the SSR costs are actual costs that Big Rivers will
2			incur due to the operation of the Coleman units as SSRs.
3		d.	Please provide all other reasons why the Company believes that
4			offsetting the transmission revenue against Century's SSR Costs
5			obligation is reasonable.
6			
7	Response)		
8,,		a.	For many years, Century has advised Big Rivers that the cost of electric
9			service to Century is the most important variable in the cost of production
10			of aluminum by the Hawesville Smelter and thus the most important
11			variable in determining whether the Hawesville Smelter can remain
12			economically viable. Offsetting the SSR cost with the transmission
13			revenue will allow Century to reduce the operating cost of the smelter
14			until such time as it can install the equipment necessary to allow the
15			Coleman plant to be temporarily idled. This was a very significant issue
16			for Century during the contract negotiations.
17		b.	The negotiation of the Transaction Documents was a complicated
18			balancing act between the financial and operational requirements of Rig

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1			Rivers, Kenergy and Century. If the Hawesville Smelter closes, Big
2			Rivers will not receive the transmission revenue in question. Century is
3			obligated to pay all SSR Costs incurred by Big Rivers, even those
4			attributable to others if Big Rivers does not actually receive payment from
5			those other entities. Further, continued operation of the Hawesville
6			Smelter generates additional benefits to Big Rivers and Kenergy through
7			the indirect economic boost associated with continued operation of other
8			businesses in western Kentucky and the approximately 600 people who
9			retain their jobs. Ultimately, Big Rivers made a business judgment that
10			the financial consequence of the Hawesville Smelter closing outweighed
11			the offset of some transmission revenue credit during the SSR period.
12		c.	The SSR Costs are costs that will be incurred by Big Rivers.
13		d.	The referenced statement in my Direct Testimony states the reasons why
14			Big Rivers believes it is reasonable under the circumstances to allow
15			Century to offset SSR costs with transmission revenue received from
16			Century under this proposed transaction.
17			
18	Witness)	Rob	nert W Berry

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 11)	Please provide a copy of all correspondence and documents between BREC
2	and Century	since January 1, 2012 relating to Century market access and/or the contracts
3	that BREC s	eeks approval of in this proceeding.
4		
5	Response)	Big Rivers objects to this item on the grounds that it is unduly burdensome and
6	overly broad.	Without waiving that objection, please see the attached documents that are being
7	provided con	sistent with the agreement between counsel for Big Rivers and counsel for KIUC.
8	Some of these	e materials are being provided pursuant to a petition for confidentiality.
9		
10		
11	Witness)	Robert W. Berry
12		

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 12) See to	he Application of Kenergy and Big Rivers at Section III, Item 9 on page
2	5, which states th	at all legal authority for Kenergy to provide electric service to the
3	Hawesville Smelter	will terminate on August 20, 2013.
4	a.	Does Kenergy take the position that the existing Smelter Tariff under
5		which electric service is provided to the Hawesville Smelter co-
6		terminates with the termination of the 2009 Retail Electric Services
7		Agreement between Kenergy and Century? If so, what is the basis for
8		Kenergy to provide continuing electric service to the Sebree Smelter?
9		Explain Kenergy's position in detail, citing applicable law.
10	b.	Does Kenergy take the position that the Smelter Tariff will no longer be
11		available to Century upon the termination of the 2009 Retail Electric
12	Ä	Services Agreement between Kenergy and Century? If so, explain
13		Kenergy's position in detail, citing applicable laws or regulations.
14	c. 1	Does Kenergy take the position that if it has no legal authority or
15	ć	obligation to provide electric service to the Hawesville Smelter on or
16	a d	fter August 20, 2013, Century would have the right to seek electric
17	s	ervice from another electric supplier? If not, explain Kenergy's
18	E	osition in detail, citing applicable laws or regulations

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Response)		
2		a.	No. Kenergy Tariff 33 does not terminate with the termination of the
3			2009 Retail Electric Service Agreement. The former Alcan Primary
4			Products Corporation ("Alcan") smelter will continue to be served under
5			the 2009 contract between Alcan and Kenergy.
6		b.	Yes. Kenergy Tariff 33 states that the tariff for service to Century
7			Aluminum of Kentucky General Partnership consists of the Retail Electric
8			Service Agreement dated as of July 1, 2009 (the "Century Retail
9			Agreement"). That tariff expires at the end of the day on August 19, 2013.
10			With the termination of the Century Retail Agreement, Century will no
11			longer receive power under this expired tariff.
12		c.	No. Kenergy would still be the exclusive retail supplier for Century
13			pursuant to KRS 278.018(1), and have the right and the reasonable
14			obligation to serve Century's load pursuant to KRS 278.030, subject to
15			Commission approval of an appropriate contract or tariff for service.
16			
17	Witness)	Greg	gory J. Starheim
18			

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 13)	See	the Application of Kenergy and Big Rivers at Section IV, Item 15(c)
2	beginning a	t page	<i>12.</i>
3		a.	Cite all applicable sections of the Loan Contract between Big Rivers and
4			RUS under which RUS holds the right of approval for the Century
5			Transaction.
6		<i>b</i> .	Cite all applicable sections of the Loan Contract between Big Rivers and
7			RUS that set forth the schedule for RUS to decide upon approval of the
8			Century Transaction, including the right of RUS to defer its decision in
9			this matter.
10		<i>c</i> .	Provide copies of all written communications between Big Rivers and
11			RUS addressing the proposed Century Transaction or the relationship
12			between Century Transaction and the credit enhancement plan that Big
13			Rivers submitted to RUS pursuant to the terms of the Loan Contract
14			between Big Rivers and the RUS.
15		d.	State whether Big Rivers' management believes that RUS' decision to
16			approve or decline to approve the proposed Century Transaction will be

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1		influenced by the decision of the Commission in the pending Case No.
2		2012-00535.
3	e.	Does Kenergy take the position that if RUS approval of the Century
4		Transaction is not granted by August 19, 2013, Kenergy should have the
5		right to disconnect electric service to a retail customer located within its
6		franchise service territory? Explain Kenergy's position in detail, citing
7		applicable laws or regulations.
8	f.	Describe in detail the creditor agreement default issue, citing the
9		applicable sections of the Amended and Restated Revolving Credit
10		Agreement between Big Rivers and the National Rural Utilities
11		Cooperative Finance Corporation ("CFC") that could prevent Big
12		Rivers from entering into the Century Transaction.
13	g.	Provide copies of all written communications between Big Rivers and
14		CFC from August 19, 2012, to the present that address or discuss the
15		creditor agreement default issue.
16	h.	State whether Big Rivers' management believes that the resolution of
17		the creditor agreement default issue between Big Rivers and CFC will

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

1			depend upon or be influenced by the decision of the Commission in the
2			pending Case No. 2012-00535.
3		i.	Does Kenergy take the position that if the creditor agreement default
4			isue between Big Rivers and CFC prevents Big Rivers from entering into
5			the Century Transaction by August 19, 2013, Kenergy should have the
6			right to disconnect electric service to a retail customer located within its
7			franchise service territory? Explain Kenergy's position in detail, citing
8			applicable laws or regulations.
9			
10	Response)		
11		a.	Section 5.6(a)(ii), (iii) and (v) of the Loan Contract, relating to entry into
12			any contract for the purchase, exchange or sale of electric power or energy
13			that has a term exceeding two years, any contract for the purchase or sale
14			of transmission, ancillary services or similar power supply arrangements
15			that has a term exceeding two years, and any amendment or modification
16			of any wholesale power contract.
17		b.	Section 8.1 of the Loan Contract provides that Big Rivers must give RUS
18			notice in writing of the Transaction. If RUS delivers written notice that it

Case No. 2013-00221
Response to KIUC 1-13
Witnesses: Billie J. Richert (a., b., c., d., f., g and h.), and
Gregory J. Starheim (e. and i.)
Page 3 of 7

Response to the Kentucky Industrial Utility Customers, Inc.'s **Initial Request for Information** dated July 2, 2013

July 11, 2013

objects to the transaction to Big Rivers within 60 days, then Big Rivers

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		-
2		cannot consummate the transaction without RUS approval. If RUS
3		objects, there is no specified time by which RUS must grant or give notice
4		of its failure to approve the transaction.
5	c.	Please see the attached document. In the interest of economy, the copy of
6		the application in this matter and the extra copies of transaction documents
7		that are exhibits to the application that are attachments to that document
8	w w	are not copied and attached to this information request response.
9	d.	Big Rivers has no basis on which to express a belief on this question
10		beyond saying that if an order unfavorable to Big Rivers is entered in Case
11		No. 2012-00535, it may be more difficult to focus the attention of the RUS
12		on the Century transaction.
13	e.	KRS 278.160(2) prohibits a utility from providing electric service except
14		pursuant to approved rate schedules. If there is no approved rate schedule
15		in place prior to August 20, 2013, Kenergy would have no legal authority
16		to provide service. Kenergy may source wholesale power to provide retail
17		electric service to Century from any source it chooses. But contracting to
18		provide service to the Century smelting load is a complex process that

Case No. 2013-00221 Response to KIUC 1-13 Witnesses: Billie J. Richert (a., b., c., d., f., g and h.), and Gregory J. Starheim (e. and i.) Page 4 of 7

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

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takes an enormous amount of time to properly document. There is no Kenergy tariff under which Kenergy can provide retail electric service for the Century smelting load after August 19, 2013. So the only alternative for providing service to the Century smelting load upon the expiration of the current agreement is under the proposed arrangements. If Century ceases smelting, Kenergy would still need a contract like the Alternate Service Agreement to provide electric service to Century. But if Kenergy has no Commission-approved set of contracts in place on a timely basis, Kenergy will have no authority to continue providing service to Century upon the expiration of the current agreement.

If Century elects to continue smelting at Hawesville, then Kenergy could supply retail electric service from a Market Participant other than Big Rivers. However, with no such alternate Market Participant in place, Kenergy cannot reasonably do so. Kenergy is only required to provide service if it can reasonably do so pursuant to KRS 278.030, and only has a right to do so if it has a Commission-approved rate schedule under which the service can be provided.

Case No. 2013-00221 Response to KIUC 1-13 Witnesses: Billie J. Richert (a., b., c., d., f., g and h.), and Gregory J. Starheim (e. and i.) Page 5 of 7

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

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1		f.	Big Rivers is seeking to amend the Amended and Restated Revolving
2			Credit Agreement between Big Rivers and National Rural Utilities
3			Cooperative Finance Corporation ("CFC Credit Agreement") to eliminate
4			an event of default in that agreement that would result if the proposed
5			contracts (or any future contracts with Century) were entered into and then
6			terminated prior to their stated term. In the proposed contracts, Century
7			could terminate the Electric Service Agreement prior to the end of the
8			stated term which would terminate the Arrangement Agreement. If this
9			happened, under the current form of the CFC Credit Agreement, an event
10			of default would occur under that agreement that could then constitute an
11			event of default under other credit agreements of Big Rivers.
12		g.	Please see the attached documents.
13		h.	If an order unfavorable to Big Rivers is entered in Case No. 2012-00535,
14			CFC may refuse to close the transaction amending the revolving credit
15			agreement to eliminate the default issue.
16		i.	See response to part e., above.
17			
18	Witnesses)	Billi	e J. Richert (a., b., c., d., f., g. and h), and

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Gregory J. Starheim (e. and i.)
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Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

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1 Gregory J. Starheim (e. and i.)

2

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Gregory J. Starheim (e. and i.)
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SULLIVAN, MOUNTJOY, STAINBACK & MILLER PSC ATTORNEYS AT LAW

Jesse T. Mountjoy

June 12, 2013

Jesse T. Mountjoy Frank Stainback James M. Miller

Rural Utilities Service

James M. Miller Michael A. Fiorella United States Department of Agriculture Room No. 5135-S

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United States Department of Agriculture

Room No. 0270-S

1400 Independence Avenue, S.W.

Stop 1568

Washington, D.C. 20250

Attention: Power Supply Division

Subject:

KY 62 Big Rivers Electric Corporation

Transaction Involving Century Aluminum of Kentucky General

Partnership

Dear Sir or Madam:

We are counsel to Big Rivers Electric Corporation ("Big Rivers"). Big Rivers and Kenergy Corp. ("Kenergy"), a Big Rivers member, are proposing a transaction by which Kenergy will provide a retail aluminum smelter customer, Century Aluminum of Kentucky General Partnership ("Century"), retail electric service with power acquired from the wholesale market that is priced based upon market pricing (the "Century Transaction"). The Century Transaction will commence on and after the termination date of the existing retail electric service agreement with Century and other related agreements at 12:00 a.m. CDT on August 20, 2013 (the "Termination Date"). The purpose of this letter to the Rural Utilities Service ("RUS") is to submit documents Big Rivers proposes to enter into in connection with the Century Transaction to the RUS for review pursuant to the Amended and Consolidated Loan Contract between Big Rivers and United States of America dated as of July 16, 2009, (the "Loan Contract"), Sections 5.6 and 8.1.

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

> Ann Building PO Box 727 Owensboro, Kentucky 42302-0727

The documents Big Rivers submits for RUS review are described in detail in the joint application Big Rivers and Kenergy have filed today with the Kentucky Public Service Commission seeking necessary state regulatory approvals for the Century Transaction (the "Application"). A copy of the

Rural Utilities Service June 12, 2013 Page 2

Application is enclosed for reference purposes, and to provide you with the best available description of the Century Transaction and the documents for which Big Rivers seeks RUS review.

The documents submitted in draft form for RUS review are:

- Arrangement and Procurement Agreement between Big Rivers and Kenergy (Application Exhibit 5). This agreement is the basic wholesale power agreement between Big Rivers and Kenergy for the Century Transaction. A summary of this agreement can be found in the Application, pages 6 and 7. This agreement is further described in the testimony of Big Rivers' Chief Operating Officer, Robert W. Berry (Exhibit 3, pages 15, and 22-24). Mr. Berry's testimony also contains details about the entire Century Transaction. The Arrangement and Procurement Agreement is a back-to-back agreement with the Electric Service Agreement, which is the retail service agreement between Kenergy and Century. The Electric Service Agreement is described in the testimony of Kenergy's President and CEO, Gregory J. Starheim (Exhibit 3, pages 7-14).
- Direct Agreement between Big Rivers and Century (Application Exhibit 6). This agreement provides for Century to pay Big Rivers certain expenses incurred by Big Rivers, even if Big Rivers is no longer the Market Participant under the Arrangement and Procurement Agreement and Kenergy is obtaining wholesale power for resale to Century from a source other than Big Rivers. A summary of this agreement can be found in the Application, page 7. This agreement is further described in the testimony of Mr. Berry (Exhibit 3, pages 16, and 25 and 26).
- Wholesale Letter Agreement (Application Exhibit 14). The Wholesale Letter Agreement supplements the all-requirements wholesale power contract between Big Rivers and Kenergy in connection with Big Rivers' provision of wholesale electric service to Kenergy for delivery under the proposed Alternate Service Agreement with Century (Application Exhibit 13). The Alternate Service Agreement provides a reduced amount of retail electric service (10 MW) to the Century smelter facility if smelting operations cease. The Alternate Service Agreement and the Wholesale Letter Agreement are described in the Application (pages 5 and 10-11), the testimony of Mr. Starheim

Rural Utilities Service June 12, 2013 Page 3

(Exhibit 2, pages 23-24) and in the testimony of Mr. Berry (Exhibit 3, page 21). The Alternate Service Agreement and the Wholesale Letter Agreement are forms of agreements that Kenergy and Big Rivers use regularly.

Enclosed with this letter are the following documents:

- O Six certified counterparts of an excerpt from the minutes of the meeting of the Big Rivers board of directors on May 17, 2013, at which Big Rivers' management was authorized to negotiate and enter into documents in connection with the Century Transaction;
- Six certified counterparts of an excerpt from the minutes of the meeting of the Kenergy board of directors on June 11, 2013, at which Kenergy was authorized to sign the Wholesale Letter Agreement and the Arrangement and Procurement Agreement;
- o Six draft copies of the Arrangement and Procurement Agreement;
- Six draft copies of the Direct Agreement;
- o Six draft copies of the Wholesale Letter Agreement; and
- o Three copies of the Application.

Please note that the RUS Administrator has been provided one copy of these documents, and the RUS Power Supply Division has been provided the multiple, original signed counterparts of the documents listed above.

Timing is very critical in the Century Transaction. The three documents for which RUS review is sought must be approved and executed by the parties before the existing agreements under which Century is taking electric service expire at the end of the day on August 19, 2013. When the existing agreements terminate, if other agreements have not been approved and executed by the parties, neither Kenergy nor Big Rivers have any legal authority to continue providing electric service to Century, and by law service to Century's smelter must be disconnected.

Big Rivers understands that the documents presented for RUS review are part of a complex transaction. If at any point it would be helpful for

SULLIVAN, MOUNTJOY, STAINBACK & MILLER PSC

Rural Utilities Service June 12, 2013 Page 4

representatives of Big Rivers to review those documents or the Century Transaction with RUS staff, Big Rivers will be pleased to do so.

Please note that Section 8.1 of the Loan Contract provides that the RUS has sixty (60) days (or such shorter period as the parties shall agree to in writing) after receipt of this notice letter in which to object to the proposed transaction and require Big Rivers not to complete the transaction without RUS approval. By our calculation, this notice letter will be received by RUS on Thursday, June 13, 2013, and the sixtieth day following delivery of this notice letter to RUS will expire no later than midnight on August 12, 2013.

Please contact me with any questions you have regarding this request.

Sincerely yours,

James M. Miller

Janes M. Miller

Counsel for Big Rivers Electric Corporation

cc: Billie J. Richert, Big Rivers Electric Corporation Robert Berry, Big Rivers Electric Corporation

EXCERPT FROM THE MINUTES OF REGULAR MEETING OF THE BOARD OF DIRECTORS OF BIG RIVERS ELECTRIC CORPORATION HELD IN HENDERSON, KENTUCKY, ON MAY 17, 2013

After considerable discussion, Director Denton moved adoption of the following resolutions:

WHEREAS, Big Rivers, Kenergy and Century have reached non-binding agreement on a term sheet that provides a framework for negotiation of definitive agreements to establish terms on which Kenergy will provide retail electric service to Century from the wholesale power market after the termination of Century's retail service agreement on August 20, 2013;

WHEREAS, Big Rivers is anticipated to participate in that structure as the transmission provider and, at least initially, as the Market Participant for Kenergy for wholesale power market transactions; and

WHEREAS, timing of completion and approval of the transactions necessary to implement retail service to Century under new agreements by August 20, 2013, is critical.

RESOLVED, that each of the following employees of the Corporation is an Authorized Representative: The President and Chief Executive Officer, the Vice President Accounting, Rates and CFO, and the Chief Operating Officer, and any other officer or employee of the Corporation designated as an Authorized Representative in writing by an Authorized Representative listed above.

FURTHER RESOLVED, that the proposed transactions between and among Big Rivers, Kenergy and Century described in the term sheet presented to the Board of Directors is approved in all respects, including but not limited to the alternate service arrangements.

FURTHER RESOLVED, that the Authorized Representatives of Big Rivers be, and they hereby are, and each of them hereby is authorized and directed for, and on behalf of Big Rivers, to negotiate and execute all such agreements, documents, instruments certificates, and other papers, and to do all such acts and things as may be necessary or desirable to complete the transactions authorized hereby substantially on the terms contained in the term sheet, including, without limitation, the seeking and securing of all approvals or consents from Big Rivers' creditors and the Kentucky Public Service Commission, and the carrying out of the terms of the various agreements and document authorized or approved in the foregoing resolutions.

FURTHER RESOLVED, that the Authorized Representatives of Big Rivers be, and they hereby are, and each of them hereby is authorized and directed for, and on behalf of Big Rivers, to prepare for the possibility that agreement may not be reached on definitive documents, or that approvals of the definitive documents may not be obtained timely, including as part of that

EXCERPT FROM THE MINUTES OF REGULAR MEETING OF THE BOARD OF DIRECTORS OF BIG RIVERS ELECTRIC CORPORATION HELD IN HENDERSON, KENTUCKY, ON MAY 17, 2013

preparation, without limitation, the seeking and securing of all necessary approvals or consents from Big Rivers' creditors and the Kentucky Public Service Commission to protect the interests of the Corporation, and to comply with the Corporation's legal obligations.

The motion was seconded, and adopted by unanimous vote.

I, Paula Mitchell, Executive Secretary of the Board of Directors of Big Rivers Electric Corporation, hereby certify that the above is a true and correct excerpt from the minutes of the Regular Meeting of the Board of Directors of said Corporation held on 5-17-13.

Paula Mitchell

KENERGY CORP.

RESOLUTION

WHEREAS:

- By letter dated August 20, 2012, Century Aluminum of Kentucky General Partnership ("Century") served notice to Kenergy Corp. ("Kenergy") that it was terminating its retail power contract with Kenergy;
- Since that time Kenergy and its wholesale power supplier, Big Rivers Electric Corporation ("BREC"), have been negotiating with Century to enable Century to acquire power from the wholesale market through BREC as a market participant that would be distributed by Kenergy to Century;
- The negotiations have now resulted in contractual terms in the following agreements involving Kenergy:
 - (a) Electric Service Agreement between Kenergy and Century;
 - (b) Arrangement Agreement between Kenergy and BREC;
 - (c) Tax Indemnity Agreement from Century to Kenergy protecting Kenergy from negative tax consequences as a result of the transaction;
 - (d) Parent Guarantee by Century's parent of Century's obligations to Kenergy;
 - (e) Protective Relay Agreement regarding system reliability;
 - (f) Capacitor Agreement involving system reliability;
 - (g) Century's guarantee(s) to Kenergy of the Capacitor and Protective Relay Agreements;
 - (h) Alternative Service Agreement between Kenergy and Century for Century's non-smelting load up to 10 megawatts should Century no longer smelt aluminum but still need power for non-smelting reasons;
 - (i) Wholesale letter agreement between BREC and Kenergy for the supply of wholesale power of up to 10 megawatts that would be necessary to serve Century's non-smelting load; and

(j) Lockbox Agreement whereby Century's payments for power are conveniently and securely processed through a bank account;

NOW, therefore, BE IT RESOLVED that the Board of Directors approves the foregoing contracts and accepts the guarantees and authorizes Gregory Starheim to sign the foregoing documents on behalf of Kenergy, and submit the contracts to applicable lending and regulatory authorities for approval

I hereby certify that the foregoing is a true and correct copy of a resolution adopted by the Board of Directors of Kenergy Corp. on June 11, 2013, and that said resolution has not been amended or modified and is in full force and effect, this the 11th day of June, 2013.

Debra Hayden, Assistant Secretary



United States Department of Agriculture Rural Development

Rural Business-Cooperative Service • Rural Housing Service • Rural Utilities Service Washington, DC 20250

SUBJECT:

Waiver of Provisions of RUS Loan Documents

Large Retail Power Contracts

TO:

All RUS Electric Borrowers

FROM:

BLAINE D. STOCKTON

Assistant Administrator

Electric Program

Rural Utilities Service (RUS) electric loan documents require the borrower to obtain RUS approval prior to entering into certain large retail power contracts. Approval is necessary when the contract is for the sale of power and energy for periods exceeding two (2) years if the kWh sales or kW demand for any year covered by such contract shall exceed 25 percent of the Borrower's total kWh sales or maximum kW demand for the year immediately preceding the execution of such contract.

Pursuant to its authority to waive compliance with provisions of RUS loan documents, RUS hereby waives compliance with the requirement to obtain RUS approval prior to entering into a large retail power contract as described above. Following execution of the contract, the borrowers will be required, however, to submit an original signed copy of the contract along with an original signed certificate to the General Field Representative (GFR). The certificate is to be in the identical form that is enclosed with this memorandum. The GFR will maintain the contract and certification in his/her file. The GFR will also fax or forward a copy of the certification to the appropriate Regional Office in Washington.

Borrowers are reminded that this waiver applies solely to the rights of RUS under its loan documents with the borrower and is not intended to and does not effect the rights of any third parties, including other lenders or co-mortgagees that may have imposed limitations on distributions by the borrower. RUS reserves the right to withdraw this waiver in whole and in part and on a case-by-case basis by written notice to borrowers signed by or on behalf of RUS.

In addition, Bulletin 112-6 which provides guidance for RUS approval of large retail power contracts has been rescinded.

Paragraph B of Section 6.5. Limitations on Certain Types of Contracts, Appendix A to Subpart C to Para 1718-Model Form of Loan Contract for Electric Distribution Borrowers. 7 CFR 1718.104.

² Section 9.10. Complete Agreement; Amendments, Appendix A to Subpart C to Part 1718-Model form of the Loan Contract for Electric Distribution Borrowers. 7 CFR 1718.104.

LARGE RETAIL POWER CONTRACT AND ASSOCIATED RATE(S) CERTIFICATE

Manager's Certification

On behalf of [insert name and address of borrower], I, [manager's name] hereby certify, to the best of my knowledge and as of the date thereof, that:

- 1. [Borrower's full legal name] and [large power load name] have executed a retail large power contract (Contract) dated [date].
- 2. The term of this Contract is for [insert number of years and final date, and include information on any renewal opportunities or conditions].
- 3. The execution of this Contract between [borrower's full legal name] will not have any adverse effect on the [borrower's full legal name], including, but not limited to, [borrower's full legal name] ability to meet all Rural Utilities Service (RUS) Mortgage and regulatory requirements.
- 4. I have reviewed the adequacy of the rate schedule(s) associated with the Contract and concluded that such rate(s) do/does not impose an undue burden on any other rate classes or consumers. The rate schedule(s) to be used in conjunction with this Contract is identified as [insert name and date of rate schedule and if it is a general or special rate].
- 5. I have complied with all RUS required engineering approvals for the plans and/or construction of facilities to serve the new large power load.
- 6. I have determined that entering into this Contract for supplying this large power service will not interrupt the adequate power supply needed to meet the total demands of the system or cause any unusual fluctuations or disturbances, and that

the [borrower's full legal name] has sufficient resources to serve this large power load.

- 7. Any/all required or appropriate regulatory notification or approval in connection with the Contract or the rate(s) associated with the Contract have been obtained.
- 8. The cost of additional required facilities have been financed by [indicate with loan funds, general funds, or aid in construction funds].
- 9. Any additional facilities required for this Contract are [indicate either dedicated or not dedicated to the specific large power load] and the maintenance of the dedicated facilities will be performed by the [borrower's full legal name] at [indicate if the borrower or the large power load recipient is responsible for the cost of maintenance].
- 10. If the Contract is terminated by either party prior to its full term, the Contract contains terms and conditions providing adequate financial protection for the [borrower's full legal name], its consumers and the security of the Government's lien.

[Signature of Manager]	[Date]

Billie Richert

From:

Billie Richert

Sent:

Wednesday, June 12, 2013 4:56 PM

Thomas Hall; Dan Lyzinski (Dan.Lyzinski@nrucfc.coop)

Mary Susan Bowles; Ralph Ashworth

Joint Application of Kenergy Corp. and BREC for Approval of Contracts and for a Declaratory Order

Tom/Dan,

Subject:

Today we delivered the above application to the PSC. We will FEDEX a copy of this application to you tomorrow.

Billie Richert, CPA, COTP

VP Accounting, Rates and CFO
Big Rivers Electric Corporation
201 Third Street
Henderson, KY 42420

Corporate: (270) 827-2561 Office Direct: (270) 844-6190 Mobile: (270) 577-6221

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Billie Richert

nt:	Wednesday, June 12, 2013 7:24 PM	
Subject:	Billle Richert Re: Joint Application of Kenergy Corp. and BREC for Approval of Contracts and for a	Declaratory Order
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Thanks Billie.		
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Crc. Created and Ow	ned by America's Electric Cooperative Network	
Thomas Hall		
Regional Vice Preside	nt	
Mante and December 14491		
20701 Cooperative W	s Cooperative Finance Corporation	
Dulles, VA 20166	ay	
Office: 703-467-2746		3
Cell: 703-483-1398		
Fax: 703-467-5653		
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liviary Susan Bowles	< <u>Mary.Bowles@bigrivers.com</u> >, Ralph Ashworth < <u>Ralph.Ashworth@b</u>	igrivers.com>
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Tom/Dan,

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Billie Richert, CPA, CITP VP Accounting, Rates and CFO Big Rivers Electric Corporation 201 Third Street Henderson, KY 42420

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Billie Richert

From: Sent:

Dan Lyzinski <Dan.Lyzinski@nrucfc.coop> Wednesday, June 12, 2013 7:34 PM

bject:

Billie Richert Re: Joint Application of Kenergy Corp. and BREC for Approval of Contracts and for a Declaratory Order

Thanks Billie.

CFC: Created and Owned by America's Electric Cooperative Network

---- Original Message -----

From: Billie Richert [Billie.Richert@bigrivers.com]

Sent: 06/12/2013 04:56 PM EST To: Thomas Hall; Dan Lyzinski

Cc: Mary Susan Bowles <Mary.Bowles@bigrivers.com>; Ralph Ashworth <Ralph.Ashworth@bigrivers.com> Subject: Joint Application of Kenergy Corp. and BREC for Approval of Contracts and for a Declaratory Order

Tom/Dan,

Today we delivered the above application to the PSC. We will FEDEX a copy of this application to you tomorrow.

Billie Richert, CPA, CITP
VP Accounting, Rates and CFO
Rivers Electric Corporation
Third Street
Henderson, KY 42420

Corporate: (270) 827-2561 Office Direct: (270) 844-6190 Mobile: (270) 577-6221

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any other use of the information set forth herein. In such case, you should destroy this message and notify the sender by telephone or e-mail.			
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Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

1	Item 14) If Big Rivers were unable to obtain the approval of RUS for the Century
2	Transactions, or if Big Rivers were unable to enter into the Century Transactions upon of
3	failure to resolve the existing creditor agreement default issue between Big Rivers and CFC
4	does Kenergy believe that the proposed Century Transaction could be restructured with a
5	Member of MISO other than Big Rivers? Explain in detail whether such a restructuring
5	with a Member of MISO other than Big Rivers would be possible.

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Response) Kenergy, Big Rivers and Century spent much time analyzing how the proposed transaction would be implemented in time for it to be effective prior to August 19, 2013. The conclusion of all three parties was that the only way the transaction could be closed by that date was through the structure set forth in the Transaction Documents with Big Rivers initially serving as the Market Participant. Even given the advantage of the parties' intimate history and knowledge of each other, the transaction took more than five (5) months of intensive negotiation and document drafting to put together the documents submitted with the Application. To bring in a new party at this late date likely would require a substantial delay. Any new commercial requirements of that party likely would disrupt the delicate balancing of the parties' interest in the documents. As an example, the handling of the must run condition of Coleman was a critical part of the negotiations. Only Big Rivers has the ability to provide

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	commitments relating to the operation of Coleman. The Transaction Documents do
2	contemplate that a Market Participant other than Big Rivers could succeed to that role
3	following compliance with the provisions relating to the appointment of a successor Marke
4	Participant. Yet, even the selection of a Market Participant other than Big Rivers would no
5	affect the existence of term of the Direct Agreement and protections to Big Rivers relating to
6	the transaction. Of course, the Direct Agreement must be approved for it to be available for
7	Big Rivers to recover SSR costs charged to Big Rivers.
8	
9	
10	Witness) Gregory J. Starheim
11	

Response to the Kentucky Industrial Utility Customers, Inc.'s **Initial Request for Information** dated July 2, 2013

July 11, 2013

agree to a temporary extension of the existing Retail Electric Services Agreement and the

Assuming the consent of Century, would Kenergy and Big Rivers be willing to

1

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Item 15)

3	existing Wholesale Electric Service Agreement for the purposes of (a) allowing the
4	Commission more time to examine the implications of the proposed Century Transaction,
5	and (b) allowing time for Big Rivers to obtain the approval of RUS and to resolve the credit
6	agreement default issue with CFC?
7	
8	Response) Assuming the consent of Century, Kenergy and Big Rivers would be willing to
9	agree to a temporary extension of the existing contractual arrangements. Any such extension
10	of those agreements would need to be submitted to RUS for its approval prior to their effective
11	date. Given the date, however, the RUS 60 day period to determine whether it objects to entry
12	into the agreements extending the current agreements would be problematic because absent
13	prior approval by RUS, Big Rivers would not be able to enter into any such arrangements.
14	Extension of the existing agreements would also require other creditor consents, arrangements
15	for credit support from Century, and Commission approval of all arrangements that come
16	under its jurisdiction. Kenergy and Big Rivers believe accomplishing amendment of the
17	agreements as suggested would be practically impossible given the short time left between now
18	and the termination of the current Century retail service agreement.

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

2	Witnesses)	Robert W. Berry and
3		Gregory J. Starheim
1		

1

Response to the Kentucky Industrial Utility Customers, Inc.'s **Initial Request for Information** dated July 2, 2013

July 11, 2013

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1	Item 16) Does Kenergy contemplate that the Commission would retain regulatory
2	oversight over the pricing and other contractual terms of a Bilateral Agreement between
3	Kenergy and a third party Market Participant? If so, explain whether the necessity of
4	obtaining Commission approval of a Bilateral Agreement would adversely affect the ability
5	of the Hawesville Smelter to obtain market based pricing.
6	
7	Response) Kenergy believes the Commission would have jurisdiction over a Market
8	Agreement between Kenergy and a Market Participant. Kenergy does not believe that the
9	Commission would have jurisdiction over a bilateral agreement between a Market Participant
10	and a wholesale power market counterparty. If the Commission determines that it has
11	jurisdiction over a bilateral agreement, the answer as to whether this interferes with the ability
12	of the Hawesville Smelter to obtain market based pricing depends upon how quickly the
13	bilateral agreement must be in place. Approval of a multi-year bilateral agreement would not
14	hinder the ability of the Hawesville Smelter to obtain market based pricing once the bilateral
15	agreement is approved. But if access to market pricing is based upon short term or day-ahead

transactions that would be problematic to implement if Commission approval is required. This

could perhaps be alleviated by putting in place a process similar to how Supplemental Energy

Transactions are handled under Kenergy's Tariff 57.

Case No. 2013-00221 Response to KIUC 1-16 Witness: Gregory J. Starheim Page 1 of 2

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

Witness) Gregory J. Starheim

1

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 17) If Big Rivers were to be successful in selling Plant Wilson, how would that
2	action affect the "must run" status of Plant Coleman or otherwise affect the economic
3	drivers that are embedded in the proposed Century Transaction? Do the documents in the
4	proposed Century Transaction provide for appropriate modifications in terms and conditions
5	upon a sale of Plant Wilson by Big Rivers? If not, why not?
6	
7	Response) The sale of the Wilson plant will have no effect on the "must run" SSR status of
8	the Coleman plant. The SSR determination of a specific plant is based on system reliability,
9	not ownership of the generating units. The Century Transaction does not provide for
10	modifications in terms and conditions due to the sale of the Wilson plant. The Wilson plant
11	has no direct impact to the Century Transaction, therefore, no terms were negotiated to modify
12	the agreements due to the sale of the Wilson plant.
13	
14	
15	Witness) Robert W. Berry
16	

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 18) If Big Rivers were to be successful in selling Plant Coleman, how would that
2	action affect the "must run" status of Plant Coleman or otherwise affect the economic
3	drivers that are embedded in the proposed Century Transaction? Do the documents in the
4	proposed Century Transaction provide for appropriate modifications in terms and conditions
5	upon a sale of Plant Coleman by Big Rivers? If not, why not?
6	Response) The sale of Plant Coleman would not affect the "must-run" status of the facility.
7	Whether the facility is required to operate for reliability purposes is not affected by who owns
8	the facility. A sale of Plant Coleman also would not affect the recovery by Big Rivers of any
9	SSR Costs under the Direct Agreement to the extent those costs are incurred by Big Rivers and
10	to the extent the Direct Agreement provides for the recovery of the particular costs from
11	Century. Century's obligations to reimburse Big Rivers for the costs subject to the Direct
12	Agreement to the extent provided in the Direct Agreement do not terminate. Recovery of any
13	amounts flowing through the "Applicable RTO Charges" similarly would not be affected to the
14	extent Big Rivers remained the Market Participant. Further, the transaction documents also
15	contemplate circumstances where Plant Coleman is not operating. For these reasons, without
16	other assumptions regarding changes in circumstances, Big Rivers does not believe the
17	transaction documents would need to be modified if Plant Coleman was sold.

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

1 Witness) Robert W. Berry

2

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 19)	Ex_{i}	plain in detail the purpose of the proposed Capacitor Agreement among
2	Big Rivers,	Kener	gy and Century. Such explanation should address
3		a.	whether the terms and conditions of the Capacitor Agreement will be
4			effective if Plant Coleman is running or only if Plant Coleman is not
5			running,
6		b.	whether the existence of the contemplated capacitors at the Hawesville
7			Smelter will affect the "must-run" status of Plant Coleman,
8		<i>c</i> .	whether the existence of the contemplated capacitors will affect the costs
9			that Century would be expected to bear with respect to Plant Coleman,
10		d.	the implications for capacitor related costs if Big Rivers were to sell
11			Plant Wilson, and
12		e.	the implications for capacitor related costs if Big Rivers were to sell
13			Plant Coleman.
14			
15	Response)		
16		a.	The Capacitor Agreement will become effective upon execution by the
17			parties to the agreement and will remain in effect until terminated
18			notwithstanding the operational status of Plant Coleman, Under Section

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1		2.15, Century's obligations under specified sections of the agreement will
2		terminate if Century permanently ceases smelting operations at the
3		Hawesville Smelter (as defined in the agreement). The agreement does
4		not have a stated termination date, due to its purpose. That is, Big Rivers
5		and Kenergy intend to enter into the agreement solely to accommodate
6		Century's desire to undertake the obligations set forth in the agreement
7		relating to the Capacitor Additions (as defined in the agreement) and to
8		protect Big Rivers and Kenergy from related risks. For example, a claim
9		relating to the Capacitor Additions could be made against Big Rivers or
10		Kenergy following cessation of the operation of Plant Coleman or even
11		the Hawesville Smelter. In such case, Big Rivers and Kenergy required
12		the Capacitor Agreement to remain in effect to protect them from any
13		resulting costs, or other potential exposures.
14	b.	The Capacitor Additions are planned to provide voltage support in the
15		Hawesville area when the Coleman Plant is idled. The Capacitors will
16		only provide voltage support and will not mitigate any thermal issues
17		associated with the import capability with the Coleman Plant being
18		temporary idled. The "must run", SSR status is evaluated by both thermal

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1		issues as well as voltage issues. Since the Capacitors will only provide
2		voltage support, they will not by themselves eliminate the SSR, "must
3		run" condition. Big Rivers and Kenergy intend to enter into the agreement
4		to accommodate the desires of Century relating to the Capacitor Additions
5		and to protect Big Rivers and Kenergy from any resulting risks. Recital D
6		to the agreement does note that "Century intends that the Capacitor
7		Additions will support serving its requirements for electric services under
8		an Electric Service Agreement as part of the Transaction, in
9		circumstances where Big Rivers has idled its Kenneth C. Coleman Plant
10		
11	c.	The Capacitor Agreement will not affect any allocation of costs for
12		Electric Services or recovery of SSR Costs amongst Big Rivers, Kenergy
13		and Century. It could change the level at which an SSR condition exists
14		and thus whether SSR Costs are incurred. The agreement would not affect
15		Plant Wilson or Plant Coleman if either were to be sold.
16	d.	Please see the response to part c., above.
17	e.	Please see the response to part c., above.
18		

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

July 11, 2013

1 Witness) Robert W. Berry

2

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 20)	For Kenergy customers who are presently provided MISO power on a backup		
2	basis, will th	basis, will their access to MISO backup power be adversely impacted in any way by the		
3	Kenergy-Cer	Kenergy-Century agreement - with or without the Coleman Station in operation?		
4				
5	Response)	Any Kenergy customer that presently receives MISO power as backup power		
6	under its retail service agreement will not have their access to MISO backup power adversely			
7	impacted by	the Kenergy-Century agreement, with or without the Coleman Station in		
8	operation.			
9				
10				
11	Witness)	Robert W. Berry		
12				

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 21)	For Kenergy customers who are presently provided MISO power on a backup
2	basis, will i	these customers see any increased MISO costs as a result of SSR costs being
3	socialized?	
4		
5	Response)	Backup power MISO costs to Kenergy customers will not be increased by
6	socialization of SSR costs in MISO.	
7		
8		
9	Witness)	Robert W. Berry
10		

Response to the Kentucky Industrial Utility Customers, Inc.'s Initial Request for Information dated July 2, 2013

1	Item 22)	For Kenergy customers who are presently provided MISO power on a backup		
2	basis, will th	basis, will these customers see any increased MISO costs not related to SSR as a result of the		
3	Kenergy-Ce	Kenergy-Century agreement?		
4				
5	Response)	Given the variability of timing and volumes of backup power taken by Kenergy		
6	customers it	customers it is impossible for Big Rivers to predict whether these customers will see any		
7	increased M	increased MISO costs as described in this information request.		
8				
9				
10	Witness)	Robert W. Berry		
11				