

**Frost
Brown Todd** LLC
ATTORNEYS

KENTUCKY · OHIO · INDIANA · TENNESSEE · WEST VIRGINIA

Mark David Goss
(859) 244-3232
MGOSS@FBTLAW.COM

August 20, 2010

Via Hand-Delivery

Mr. Jeffrey Derouen
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
P. O. Box 615
Frankfort, Kentucky 40602-0615

RECEIVED

AUG 20 2010

PUBLIC SERVICE
COMMISSION

Re: PSC Case No. 2010-00043
In the Matter of: Application of Big Rivers Electric Corporation
for Approval to Transfer Functional Control of Its Transmission
System to Midwest Independent Transmission System Operator, Inc.

Dear Mr. Derouen:

Enclosed you will please find an original and nine (9) copies of the Midwest Independent Transmission System Operator, Inc.'s Supplemental Responses to certain Commission Staff First and Second Data Requests to MISO (designated as "Part I"); and, Supplemental Responses to certain KIUC First and Second Data Requests (designated as "Part II") to MISO and BREC.

You will please note that the portion containing the Supplemental Response for each Data Request is contained in red.

Also, because of formatting issues, a detailed index referring to the particular Data Requests being supplemented and the page number upon which that Supplemental Response can be found, is provided for ease of reference.

Please file the Supplemental Responses at your earliest convenience. Should you have any questions regarding this filing, please let me know.

Sincerely yours,



Mark David Goss

Enclosures

cc: Counsel of Record

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SUPPLEMENTAL RESPONSES
FILED AUGUST 20, 2010**

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Part I

**Supplemental Responses to Kentucky Public Service Commission First and Second Data
Requests to BREC & MISO**

Item PSC 1-2) Refer to the Direct Testimony of Clair J. Moeller at page 19.

a. Will the Midwest Independent Transmission System Operator ("Midwest ISO") seek to include grandfathered agreement ("GFA") load in transmission cost allocation in the July 2010 filing with the Federal Energy Regulatory Commission ("FERC")?

b. Are there any other changes that will be proposed in the July 2010 FERC filing that will impact Big Rivers? If yes, explain and quantify the cost to Big Rivers.

Original Response:

a. No decision has been made regarding the inclusion of grandfathered agreement load in transmission cost allocation for the July 15, 2010 filing.

b. At this point, changes that will be proposed in the July 2010 FERC filing have not been finalized. However, based on the current proposed methodology there could be potential impacts to Big Rivers (assuming this is the proposal submitted to and accepted by FERC). The overarching goal is a fair allocation of costs to enable transmission system development to support reliability and economic goals, renewable resource integration, and other public policy objectives, while maintaining the Midwest ISO Value Proposition. For a detailed description of the methodology currently under consideration by the Midwest ISO - Injection/Withdrawal methodology - refer to the Midwest ISO's straw proposal titled "Transmission Cost Allocation Design" published on March 22, 2010. (Copy attached.)

The Midwest ISO has estimated the potential impacts for Big Rivers under the Injection/Withdrawal methodology based on our modeling of a 2014 test year taking into account future load growth, state RPS mandates, generation expansion, and new transmission facilities. The transmission facilities included for cost sharing under the Injection/Withdrawal methodology primarily represent reliability projects scheduled tentatively to go in-service through 2014 but which have not yet been approved. Note that since Big Rivers has not been a part of the Midwest ISO planning process all of the projects included in the 2014 test year are located outside of the Big Rivers Pricing Zone.

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1 Also, note that under current Midwest ISO policy that relieves new entrants of the
2 responsibility to pay for projects planned prior to their entry year, some of the modeled
3 costs may ultimately be excluded from the transmission cost allocated to Big Rivers.

4 As stated in response to Item PSC 2a, above, a final decision has not been made
5 regarding treatment of Grandfathered Agreement (GFA) load under the
6 Injection/Withdrawal cost allocation methodology. In estimating the potential costs to
7 Big Rivers under Injection/Withdrawal in 2014 the Midwest ISO has performed the
8 calculation with and without GFA load being allocated costs. As shown in Figure 1 the
9 estimated annual total charges under Injection/Withdrawal in 2014 for Big Rivers is \$8.8
10 million if all Big Rivers load is charged and decreasing to \$3.8 million if GFA load is
11 excluded.

12 **Supplemental Response:**

13 a: The new cost allocation proposal currently pending at FERC does not allocate
14 cost to GFA load.

15 b: Yes. See response to PSC 2-1 for further explanation and quantification of
16 cost.

17 ***Item PSC 1-6) Assuming Big Rivers becomes a member of the Midwest ISO, will Big***
18 ***Rivers be obligated to pay a share of any transmission projects that were approved***
19 ***prior to Big Rivers' membership? If yes, explain in detail the total estimated cost of the***
20 ***approved transmission projects and the derivation of Big Rivers' share.***

21 **Original Response with Supplemental Response** (contained as edits in red): Current
22 Midwest ISO transmission cost allocation protocols do not require new members to pay
23 for transmission projects, the planning of which the new member has not been party to,
24 under the planning process of the Midwest ISO Tariff, and which are deemed eligible for
25 sharing as Baseline Reliability Projects or Regionally Beneficial Projects or Generator
26 Interconnection Projects. Likewise, the same type of projects that are already planned for
27 implementation by the new member prior to joining the Midwest ISO are not eligible for
28 sharing with other Midwest ISO members. ~~At the present time, the expectation is that the~~
29 ~~July 15, 2010 FERC filing will maintain this policy with regard to the timing of initial~~
30 ~~planning obligations.~~ The cost allocation for the new Multi-Value Project ("MVP")
31 category, currently pending at FERC is somewhat different. With the exception of GFA
32 load which is excluded under the filing, all Midwest ISO load will pay the regional rate

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1 for Multi Value Projects. Thus, upon becoming a member, one might be able to argue
2 that the rate that Big Rivers would pay includes an MVP that may be approved just
3 slightly ahead of its membership. At the present time only one MVP has been proposed
4 for consideration for calendar year 2010. That project, in Michigan, has an estimated
5 project cost of \$510 million which results in an annual revenue requirement of
6 approximately \$139 million. Big Rivers, with an estimated 1.1% share of energy and
7 exports, would have included as part of its transmission rates approximately \$0.5 million
8 projected to begin in 2013 as the first branches of this MVP are phased in with the entire
9 project projected to be completed and on line in 2015, at the very earliest. Whether Big
10 Rivers and others ultimately have the costs of this project or any other MVPs included in
11 the transmission rates depends on: (1) FERC's acceptance of the proposed Multi Value
12 Project Cost Allocation Methodology; (2) the approval, by the Midwest ISO Board, of
13 this project as a Multi Value Project; and any (3) local siting and/or regulatory reviews,
14 approvals, and challenges. It is also relevant to note that the annual charge rate, and the
15 associated obligation for the project, would decline annually to reflect depreciation.

16
17 **Item PSC 1-8) *If Big Rivers becomes a Midwest ISO member and later withdraws,*
18 *explain the basis, the amount, and the derivation of any financial obligation for Big*
19 *Rivers arising from:***

20 *a. Transmission projects that were approved by the Midwest ISO prior to Big*
21 *Rivers' membership;*

22 *b. Transmission projects that were approved by the Midwest ISO during the*
23 *time of Big Rivers' membership; and*

24 *c. Any non-transmission capital project or expenditure.*

25 **Original Response)** a. Current Midwest ISO transmission cost allocation protocols do
26 not require new members to pay for transmission projects approved prior to their
27 membership. Since these projects would not be allocated to Big Rivers, there would be no
28 withdrawal obligation related to them.

29
30 b. The exiting party would maintain responsibility for its share of the allocation of
31 projects approved during the parties' membership. The amount owed would be that
32 defined under the tariff at the time the projects were approved. Under the current tariff
33 the cost allocation for each project would be based on Big Rivers' load ratio share of the
34 total load for the applicable zones for each project.

35
36 c. Any non-transmission capital project costs or expenditures that would be allocated to
37 the exiting member would be included in the exit fee. Exit fee estimates for 2009 and
38 2015 were provided in previously submitted testimony.
39

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1 **Supplemental Response:**
2

3 a) Addendum: With respect to transmission projects approved prior to Big Rivers'
4 membership that are deemed Multi-Value Projects under the cost allocation methodology
5 pending at FERC, there would also be no withdrawal obligation.
6

7 b) Addendum: Under the cost allocation methodology pending at FERC, Big Rivers'
8 obligation would be based on its load ratio share in the footprint.
9

10 **Item PSC 1-10) Page 42 of the Crockett Testimony states that firm power and**
11 **transmission contracts in effect as of a certain date might be eligible to be**
12 **"grandfathered." Describe the specific transmission contracts that might be eligible for**
13 **this "grandfather" status.**

14 **Original Response:** Big Rivers requested GFA treatment for all of its wholesale
15 contracts, including the two wholesale contracts with Kenergy Corp. for service for resale
16 to the smelters. The following treatment was determined to by the Midwest ISO to be
17 consistent with its Tariff and FERC orders.

18 Big Rivers is a party to two agreements that are already listed as GFAs in Attachment P
19 of the Midwest ISO tariff. This status will not change. Those Carved-Out GFAs are:

- 20 • GFA No. 332 (Tariff Sheet No. 2833): "Transmission Line Agreement" dated
21 February 1, 1981, between Big Rivers and SIPC.
- 22 • GFA No. 341 (Tariff Sheet No. 2835): "Interconnection Agreement" dated April
23 1, 1968, among Indiana Statewide Rural Electric Cooperative, Inc. acting through
24 its Hoosier Energy Division, Southern Illinois Power Cooperatives ("SIPC"), Big
25 Rivers, and City of Henderson, Kentucky, acting through its Utility Commission
26 ("the City of Henderson").
27

28 The Midwest ISO Attachment P filing proposes Carved-Out GFA treatment for the
29 following agreements:

- 30 • "Agreement for Transmission and Transformation Capacity" dated April 11,
31 1975, between Big Rivers and the City of Henderson.
- 32 • Letter Agreement between Big Rivers and the City of Henderson, dated July 30,
33 1984, regarding the City of Henderson's contract with the Southeastern Power
34 Administration ("SEPA").
- 35 • Contract between Big Rivers and SEPA dated June 30, 1998.
- 36 • Interconnection Agreement between Big Rivers and Louisville Gas and Electric
37 Company dated December 21, 1973, as amended.
- 38 • Interchange Agreement between Big Rivers and Associated Electric Cooperative,
39 Inc., dated April 16, 1993.
40

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1 The Midwest ISO Attachment P filing also proposes Option A treatment for the
2 following GFAs, consistent with Big Rivers' request:

- 3 • Wholesale Power Agreement dated October 14, 1977, between Big Rivers and
4 Jackson Purchase Rural Electric Cooperative Corporation, as amended.
- 5 • Wholesale Power Contract dated June 11, 1962, between Big Rivers and Meade
6 County Rural Electric Cooperative Corporation, as amended.
- 7 • "Wholesale Power Contract" dated June 11, 1962, between Big Rivers and Green
8 River Electric Corporation, as amended.
- 9 • "Wholesale Power Contract" dated June 11, 1962, between Big Rivers and
10 Henderson-Union, as amended.

11
12 Please see the response to KIUC MISO Data Request 1-8 for the explanation of why
13 Midwest ISO determined that GFA treatment is not available for the smelter-related
14 wholesale contracts.

15 Supplemental Response: FERC issued an order accepting the GFA status proposed by
16 Midwest ISO (described in the previous answers) on May 26, 2010. FERC Letter is
17 reproduced below:

18 FEDERAL ENERGY REGULATORY COMMISSION
19 WASHINGTON, DC 20426
20 OFFICE OF ENERGY MARKET REGULATION
21 In Reply Refer To:
22 Midwest Independent Transmission
23 System Operator, Inc.
24 Docket No. ER10-1024-000
25 May 26, 2010

26 Attention: Daniel M. Malabonga
27 Counsel
28 505 Ninth Street, NW
29 Suite 1000
30 Washington, DC 20004
31 Reference: Revised Attachment P (List of Grandfathered Agreements)

32
33 Dear Mr. Malabonga:

34
35 On April 6, 2010, Midwest Independent Transmission System Operator, Inc.
36 (Midwest ISO) filed revised tariff sheets proposing to classify certain Grandfathered
37 Agreements of Big Rivers Electric Corporation's (Big Rivers) in connection with the
38 integration of Big Rivers into Midwest ISO as a transmission-owning member.
39 Pursuant to authority delegated to the Director, Division of Electric Power

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1 Regulation- Central, under 18 C.F.R. 375.307, your submittal in the above referenced
2 docket is accepted for filing, effective September 1, 2010, as requested.
3

4 Notice of the filing was published in the *Federal Register* with comments, protests, or
5 interventions due April 27, 2010. Under 18 C.F.R. 385.210, interventions are timely
6 if made within the time prescribed by the Secretary. Under 18 C.F.R. 385.214, the
7 filing of a timely motion to intervene makes the movant a party to the proceeding, if
8 no answer in opposition is filed within fifteen days. No adverse comments or protests
9 were filed. The filing of a timely notice of intervention makes a State Commission a
10 party to the proceeding.
11

12 This action does not constitute approval of any service, rate, charge, classification, or
13 any rule, regulation, contract, or practice affecting such rate or service provided for in
14 the filed documents; nor shall such action be deemed as recognition of any claimed
15 contractual right or obligation affecting or relating to such service or rate; and such
16 action is without prejudice to any findings or orders which have been or may
17 hereafter be made by the Commission in any proceeding now pending or hereafter
18 instituted by or against any of the applicant(s).
19

20 This order constitutes final agency action. Requests for rehearing by the Commission
21 may be filed within 30 days of the date of issuance of this order, pursuant to 18
22 C.F.R. 385.713.

23 Sincerely,
24 Penny S. Murrell, Director
25 Division of Electric Power
26 Regulation – Central

27 **Item PSC 1-19)** *When does the Midwest ISO anticipate its proposed ARC tariff to be*
28 *approved by the FERC?*

29 **Original Response:** The Midwest ISO expects to have an order in the month of May
30 2010, prior to the effective date of the Tariff Sheets of June 1, 2010.

31 **Supplemental Response:** The Midwest ISO is still awaiting an order, which it
32 anticipates receiving any time in the near future.

33
34 **Supplemental Responses to KY PSC Second Requests to BREC & MISO**

35 **Item PSC 2-1)** *Refer to the responses to Items 1, 2, and 4 of the First Data Request of*
36 *Commission Staff (“Staff’s First Request”). Provide updates, as applicable, and*

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1 *describe any changes from the initial responses. Consider this a continuing request;*
2 *provide updates with descriptions of any changes or new developments, as they become*
3 *known, for the remainder of this proceeding.*

4 **Original Response**) As an update to Item 1 of the Staff's First Request, Big Rivers has
5 continued discussion of power purchase options with Southern Illinois Power
6 Cooperative, Paducah Power System, Bluegrass Generating (the entity whose identity
7 was withheld due to confidentiality concerns in the response to PSC 1-1 dated April 7,
8 2010), and most recently with Owensboro Municipal Utilities. While no alternative
9 solution to the Contingency Reserve problem has been identified, Big Rivers continues to
10 explore economically advantageous alternatives to Midwest ISO membership.

11 As an update to Item 2 of the Staff's First Request, Midwest ISO has provided a revised
12 status in data request KIUC 2-12.

13 Big Rivers' response to Item 4 of the Staff's First Request has not changed.

14 **Supplemental Response:**

15 *Please note that this supplemental response only covers Item 2. Items 1 and 4 were*
16 *previously answered by Messrs. Crockett and Luciani.*

- 17 a. The Midwest ISO did not change the current exclusion of grandfathered agreement
18 load from transmission cost allocation in the July 15, 2010 filing to FERC.
19 b. Yes, there are changes to the Midwest ISO's transmission cost allocation policy filed
20 on July 15, 2010 that are expected to have an impact on Big Rivers pending approval
21 by the Federal Energy Regulatory Commission (FERC).

22
23 On July 15th, after taking under consideration the multiple, divergent positions and input
24 provided by stakeholders over the previous 19 months, the Midwest ISO filed with the
25 Federal Energy Regulatory Commission ("FERC") a cost allocation proposal designed to
26 establish a new transmission project and cost allocation category called Multi Value
27 Project ("MVP"). MVPs are defined as projects that enable the reliable and economic
28 delivery of energy in support of documented energy policy mandates and address, through
29 the development of a robust transmission system, multiple reliability and/or economic

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1 issues affecting multiple transmission zones. Recognizing the regional nature of such
2 projects, their costs are proposed to be allocated to all load in, and exports from, the
3 Midwest ISO on an energy (MWh) basis via a postage-stamp rate. A project must meet at
4 least one of the following three criteria in order to qualify for sharing as an MVP:

5
6 1) Enables the reliable delivery of energy in support of a documented public
7 policy mandate or law;

8
9 2) Provides multiple types of economic value across multiple pricing zones; or

10
11 3) Addresses at least one reliability issue associated with a NERC or Regional
12 Entity standard and provides economic value to multiple pricing zones.

13
14 The new MVP transmission project category, and its associated broad-based cost
15 allocation, are designed to: (1) facilitate the integration of large amounts of location-
16 constrained resources, including renewable generation resources; (2) support Midwest ISO
17 member and customer compliance with evolving state and federal energy policy
18 requirements; (3) enable the Midwest ISO to address multiple reliability needs and provide
19 economic opportunities through regional transmission development.

20
21 To *estimate* the potential future impact to Big Rivers under the newly-filed cost
22 allocation methodology, the Midwest ISO must use a set of *potential* transmission
23 projects that Midwest ISO staff has developed that have the attributes of and *could*
24 qualify as MVPs. This early effort of identifying a potential set of “starter projects” is
25 being determined using a number of factors, including transmission corridors identified in
26 multiple Midwest ISO studies (i.e. the Regional Generation Outlet Study (RGOS) and
27 another study known as the “Top Congested Flowgate Study”, as well as ongoing
28 analyses as part of the expansion planning and generation interconnection queue study
29 process), synchronizing generator interconnection queue locations with Renewable

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Portfolio Standard (RPS) timing needs, and the probability of construction. It is anticipated that these starter projects, or projects like them, will likely be proposed, fully analyzed and vetted, and then may be developed within 5-10 years after the anticipated FERC approval of the MVP cost allocation methodology. Therefore, keeping in mind all of these above qualifications, the list of potential MVP starter projects are catalogued on Figure 1, below. It must be noted that this preliminary list includes transmission lines in every region of the Midwest ISO footprint and represents approximately \$4.6 billion in anticipated investment over the next 10 years.

	MVP Starter Projects	Zone (State)	Voltage Class	Estimated Cost
(1)	Big Stone-Brookings	XEL (ND/MN)	345 kV	\$150,000,000
(2)	Brookings-Twin Cities	XEL (MN)	345 kV	\$700,000,000
(3)	Lakefield-Mitchell County	ITCM (MN/IA)	345 kV	\$600,000,000
(4)	Sheldon-Webster-Blackhawk-Hazelton	MEC (IA)	345 kV	\$458,000,000
(5)	Dubuque-Spring Green & Lacrosse-Spring Green-W Middleton	ATC (WI)	345 kV	\$811,000,000
(6)	Sheyenne-Audubon 230 kV rebuild	OTP (MN)	230 kV	\$60,000,000
(7)	Thomas Hill-Adair-Ottumwa	AMMO (MO)	345 kV	\$195,000,000
(8)	Adair to Palmyra	AMIL (IL)	345 kV	\$100,000,000
(9)	Palmyra-Quincy-Meredosia-Ipava & Ipava-Meredosia-Pawnee	AMIL (IL)	345 kV	\$345,000,000
(10)	Pawnee-Pana	AMIL (IL)	345 kV	\$76,000,000
(11)	Pana-Mt. Zion-Kansas-Sugar Creek	AMIL (IL)	345 kV	\$250,000,000
(12)	St. John to Hiple 2nd circuit	NIPS (IN)	345 kV	\$75,000,000
(13)	Davis Besse to Beaver 2nd circuit	FE (OH)	345 kV	\$71,000,000
(14)	Sidney-Rising	AMIL (IL)	345 kV	\$68,000,000
(15)	Michigan Thumb Loop Expansion	ITC (MI)	345 kV	\$510,000,000
(16)	Sullivan-Meadow Lake-Greentown ¹	DUK/AEP (IN)	765 kV	\$171,875,000
	Total			\$4,640,875,000

Note: 1) The estimated cost only reflects that portion eligible for cost sharing in the Midwest ISO.

Figure 1. MVP Starter Projects (in 2010 \$s)

In addition to advancing the integration of renewable resources to meet public policy requirements, these anticipated projects are expected to also provide overall benefits driven by reductions in congestion and losses, such as reduced aggregate production cost of delivered energy, and maintaining or reducing the Midwest ISO Planning Reserve Margin, as well as broadly-shared reliability benefits by facilitation of upgrades needed to ensure continued satisfaction of transmission grid reliability

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1 standards. The economic benefits provided by the MVP starter projects are, likewise,
2 expected to be broadly shared by all loads in the Midwest ISO footprint.

3
4 As part of the July 15th filing, the Midwest ISO provided an analysis that
5 estimated and quantified the economic benefits associated with the list of MVP starter
6 projects listed in Figure 1. This analysis showed significant savings to the Midwest ISO
7 region in the form of reduced congestion and the provision of greater access across the
8 footprint. The adjusted production cost savings in 2015 is estimated to be \$294 million
9 which would be broadly spread across the footprint. In addition to the reduction in
10 production costs the MVP starter projects are expected to reduce transmission system
11 losses which equates to a cost savings potential of about \$67 million.

12
13 A rough calculation of what Big Rivers' share of these above noted production and losses
14 cost savings can be made using their load ratio share of Midwest ISO load. Utilizing the
15 a 1.9% load ratio share¹ for Big Rivers, which excludes First Energy load, Big Rivers'
16 share of the cost savings as a result of the MVP starter projects is estimated to be \$7
17 million by 2015. This annual savings would continue to accrue and grow each successive
18 year with the savings to Big Rivers in 2025 growing to \$26 million per year.

19
20 In an effort to be conservative in its estimated charges to Big Rivers for the MVP starter
21 projects, the Midwest ISO assumed that all of the projects listed in Figure 1 were indeed
22 approved and in-service by 2015. The actual charges in 2015 would obviously vary
23 depending on what projects are finally approved and when those projects ultimately go
24 in-service. The potential, annual charges to Big Rivers are shown on Line 3 of Figure 2.
25 Further, the estimated charges to Big Rivers for Baseline Reliability Projects are shown
26 on Line 4 of Figure 2.

27

¹ The 1.9% intentionally does not net out GFAs as benefits would flow to all load, regardless of whether or not it is being served under a GFA arrangement.

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1 It would be incomplete; however, to reflect only the potential transmission *charges*
2 associated with the MVP Starter Projects, without also showing corresponding potential
3 benefits. For that more complete costs and benefits comparison the Midwest ISO has
4 also incorporated and included the additional benefits and costs Big Rivers would incur
5 with Midwest ISO membership as provided in the Direct Testimony of Mr. Luciani
6 referencing his analysis done in January 2010, pages 28-29, and in Tables 2.
7

Nominal Dollars in Millions	2011	2012	2013	2014	2015
1) Decreased Cost to Serve Big Rivers Load	11.0	12.1	13.3	14.4	14.8
2) Estimated MVP Starter Project Benefits	0.0	0.0	0.0	0.0	6.9
3) Charges for MVP Starter Projects	0.0	0.0	(0.39)	(1.03)	(10.9)
4) Charges for RECB I Baseline Reliability Projects	0.0	0.0	0.0	(0.12)	(0.24)
5) Midwest ISO Administrative Charges	(4.6)	(4.1)	(3.9)	(3.9)	(4.1)
6) FERC Charges	(0.7)	(0.7)	(0.7)	(0.7)	(0.7)
7) Internal Staffing/Equipment Costs	(0.8)	(0.8)	(0.8)	(0.8)	(0.8)
Sub Total	4.9	6.5	7.5	7.8	4.9
8) Cost Avoided for 200 MW of New Reserves	22.0	22.6	23.1	23.7	24.3
Net Benefits	26.9	29.1	30.6	31.5	29.2

8 **Figure 2².** Big Rivers Benefit and Cost Comparison to Midwest ISO Membership (assumes a 2.5% inflation rate)

9
10
11 The MVP starter projects include portions of the transmission expansion plans currently
12 under consideration through the Midwest ISO RGOS process. The RGOS was
13 established to develop a rational, regionally beneficial transmission expansion plan to
14 recognize and facilitate the RPS objectives passed by most Midwest ISO member states.
15 The current long term projections of the possible costs of those plans range in total cost
16 from \$13 to \$14 billion out over the time period extending to 2025. For comparison
17 purposes only, the very rough estimates for the previously requested snapshot year of
18 2014 is \$0.8 million³, and for 2025, at the extreme end of the projections done based on
19 the entire estimated MVP \$14 billion build-out, the similar math calculates to a Big
20 Rivers proportionate share of approximately \$30 million. It is important to note that
21 these are rough estimates that are highly dependent on a number of unknown variables

² Note that the transmission charges shown on Line 3 in Figure 2 assume First Energy is allocated a portion of the MVP Starter Projects. If First Energy is determined to have no obligations, the charges shown on Line 3 in Figure 2 could increase, but no more than 12%.

³ See also Line 3, Column 2014 in Figure 2, above.

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1 which could include multiple levels of review and scrutiny. The multiple tiers of review
2 of any MVPs proposed will be subject to extensive scrutiny by multiple industry and
3 sector stakeholder groups to ensure any project that does ultimately get approved has
4 both merit and positive benefits. The level of comment and scrutiny is certainly proving
5 to be the case with the first such MVP project discussed above. The know unrelated
6 venues for public reviews include, but are not be limited to: (1) FERC's acceptance of the
7 proposed Multi Value Project Cost Allocation Methodology; (2) the review and vetting of
8 any proposed projects as MVPs through the applicable Midwest ISO stakeholder
9 planning processes; (3) the approval, by the Midwest ISO Board, of all of these project as
10 a Multi Value Projects; (4) local siting reviews; and (5) any other applicable state and
11 local regulatory prudence or environmental reviews, approvals, and challenges.

12
13 **Item PSC 2-2) Refer to page 18 of 18 of Attachment 1 of the response to Item 2 of**
14 **Staff's First Request.**

15
16 ***a. Identify where in the Midwest Independent Transmission System Operator,***
17 ***Inc. ("Midwest ISO") "Transmission Owners' Agreement" the transmission revenue***
18 ***distribution provisions are located.***

19 ***b. This section of the attachment refers to "the regional and local zones'***
20 ***revenues" that the Midwest ISO will collect and distribute to transmission owners.***
21 ***Explain whether these constitute all types of transmission revenues that will potentially***
22 ***be distributed to Big Rivers. If there are other types of transmission revenues that***
23 ***might apply to Big Rivers, identify them and how they are to be distributed/allocated.***

24 **Original Response with Supplemental Response (contained as edits in red):**

25 a. Transmission revenue distribution provisions can be found in Appendix C.III. parts A
26 and B of the Midwest ISO Transmission Owners Agreement. The Transmission Owners
27 Agreement can be found on the Midwest ISO website at the following location:
28 ("http://www.midwestmarket.org/publish/Document/469a41_10a26fa6c1e_-
29 6d790a48324a?rev=15")

30 ~~b. Potential Injection/Withdrawal revenues do not constitute all types of~~
31 ~~transmission revenues that will potentially be distributed to Big Rivers. Other types of~~
32 ~~transmission revenues may be distributed to Big Rivers. Potential revenues from Multi~~

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1 Value Projects (MVPs) do not constitute all types of transmission revenues that will
2 potentially be distributed to Big Rivers. Other types of transmission revenues may be
3 distributed to Big Rivers as well.

4 Definitions - the following list of definitions has been provided to assist with
5 understanding of Midwest ISO terminology utilized in this response:

- 6 • Border Transmission Owner - A Midwest ISO Transmission Owner (TO) whose
7 transmission facilities are interconnected with those of a non-Midwest ISO
8 transmission owner.
- 9 • Bundled Load - The aggregate usage by customers who purchase electric services
10 as a single service or customers who purchase electric services under a retail tariff
11 rate schedule that includes power, energy and delivery components, as
12 distinguished from customers who purchase transmission service as a separate
13 service.
- 14 • Drive-in Point-to-Point transmission service - the generation source is outside the
15 Midwest ISO and the load is located within the Midwest ISO.
- 16 • Drive-out Point-to-Point transmission service - the generation source is located
17 within the Midwest ISO and the load is located outside of the Midwest ISO.
- 18 • Drive-through Point-to-Point transmission service - both the generation source
19 and the load are located outside of the Midwest ISO.
- 20 • Drive-within Point-to-Point transmission service - both the generation source and
21 the load are located within the Midwest ISO.
- 22 • Schedule 1 – Scheduling, System Control, and Dispatch Service.
- 23 • Schedule 2 – Reactive Supply and Voltage Control From Generation or Other 4
24 Source Service.
- 25 • Schedule 7 – Long-Term Firm and Short-Term Firm Point-To-Point Transmission
26 6 Service.
- 27 • Schedule 8 – Non-Firm Point-To-Point Transmission Service. 8
- 28 • Schedule 9 - Network Integration Transmission Service (NITS). 9
- 29 • Schedule 10 – The Midwest ISO cost recovery adder. Schedule 10 consists of
30 three separate charges: demand, energy, and FERC. These rates are intended to
31 recover Midwest ISO costs and none of the Schedule 10 revenue collected by the
32 Midwest ISO is distributed to TOs.
- 33 • Schedule 26 - Network Upgrade Charge from Transmission Expansion Plan.
- 34 • Zone(s) - The transmission pricing zone(s) identified in the transmission Tariff as
35 (they) may be changed pursuant to Appendix C of the Transmission Owners
36 Agreement.

37 Assumptions: In order to respond to this question, the following assumptions have been
38 made:

- 39 • Big Rivers will be a separate Zone within the Midwest ISO footprint.

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- 1 • In addition to Bundled Load, Big Rivers may have other network load taking
2 Network Integration Transmission Service (NITS).
- 3 • ~~Big Rivers currently has no Midwest ISO Transmission Expansion Plan (MTEP)~~
4 ~~approved cost shared projects the cost of which would be recovered through~~
5 ~~Schedule 26. In the future Big Rivers may have MTEP approved cost shared~~
6 ~~projects. For purposes of this response, it has been assumed that the~~
7 ~~Injection/Withdrawal Straw Proposal (previously provided by the Midwest ISO as~~
8 ~~Attachment 1) prevails and any future Big Rivers MTEP approved cost shared~~
9 ~~projects would be recovered under the Injection/Withdrawal methodology. At~~
10 ~~present, Big Rivers has not submitted any projects for consideration as part of the~~
11 ~~Midwest ISO Transmission Expansion Plan (MTEP) process. In the future, Big~~
12 ~~Rivers may have MTEP approved cost shared projects which could qualify to be~~
13 ~~recovered through Schedule 26. In addition, if the MVP Proposal (as outlined by~~
14 ~~the Midwest ISO in its Supplemental Response to PSC 2-1(b), above) prevails at~~
15 ~~FERC, future Big Rivers MTEP approved cost shared projects could also be~~
16 ~~proposed and recovered under the MVP methodology.~~
- 17 • Big Rivers has no qualified generators that provide reactive power and voltage
18 control. In order to receive revenue for the provision of reactive power and
19 voltage control generators within the Midwest ISO must have a FERC approved
20 revenue requirement. This requirement is applicable to FERC jurisdictional and
21 non-jurisdictional entities (such as Big Rivers).
- 22 • There are no qualified generators located in Big Rivers' Zone that are not owned
23 by Big Rivers. If there were, then load, excluding Grandfathered Agreement
24 (GFA) load, would be charged the appropriate Big Rivers zonal Schedule 2 rate
25 and the Schedule 2 revenue collected by the Midwest ISO would be distributed to
26 the applicable non-Big Rivers owned generators.

27 Distribution of Revenues Related to Network Integration Transmission Service (NITS)

- 28 • Bundled Load
 - 29 • ~~Per the Transmission Owner's Agreement (TOA), Appendix C.II.A.3.a~~
30 ~~(Second Revised Sheet No 121a), TOs taking NITS to serve their Bundled~~
31 ~~Load do not have to pay transmission charges pursuant to Schedules 1, 2 and~~
32 ~~9. If Big Rivers opts to apply this exemption to their Bundled Load, Big~~
33 ~~Rivers would not pay Schedules 1, 2 or 9. However, the Bundled Load would~~
34 ~~be responsible to pay Schedule 23 (rates are the same as Schedule 10). Given~~
35 ~~the assumptions noted above, no Bundled Load transmission revenues would~~
36 ~~be distributed to Big Rivers. Per the Transmission Owner's Agreement~~
37 ~~(TOA), Appendix C.II.A.3.a (Second Revised Sheet No 121a), TOs taking~~
38 ~~NITS to serve their Bundled Load do not have to pay transmission charges~~
39 ~~pursuant to Schedules 1, 2 and 9. If Big Rivers opts to apply this exemption to~~
40 ~~their Bundled Load, Big Rivers would not pay Schedules 1, 2 or 9. However,~~
41 ~~the Bundled Load would be responsible to pay Schedule 23 (rates are the~~
42 ~~same as Schedule 10), Schedule 26, and the proposed MVP Schedule 26-A.~~

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1 Given the assumptions noted above, no Bundled Load transmission revenues
2 would be distributed to Big Rivers.

3 • Other Network Load

4 ~~○ Other Network Load~~

5 ○ ~~Other Network load taking NITS that does not have a GFA will be~~
6 ~~responsible to pay Schedules 1, 2, 9, and 10. Given the assumptions noted~~
7 ~~above, the transmission revenues collected by the Midwest ISO for~~
8 ~~Schedules 1 and 9 would be distributed to Big Rivers. Other Network~~
9 ~~load taking NITS that does not have a GFA will be responsible to pay~~
10 ~~Schedules 1, 2, 9, 10, 26, and the proposed 26-A. Given the assumptions~~
11 ~~noted above, the transmission revenues collected by the Midwest ISO for~~
12 ~~Schedules 1 and 9 would be distributed to Big Rivers.~~

13 ○ ~~Other Network load taking NITS that is under a GFA will be responsible~~
14 ~~to pay Schedule 10. If ancillary services (Schedules 1 and 2) are not taken~~
15 ~~under the GFA, then Schedules 1 and 2 will be charged. Given the~~
16 ~~assumptions noted above, no transmission revenues collected by the~~
17 ~~Midwest ISO would be distributed to Big Rivers. Other Network load~~
18 ~~taking NITS that is under a GFA will be responsible to pay Schedule 10.~~
19 ~~Given the assumptions noted above, no transmission revenues collected by~~
20 ~~the Midwest ISO would be distributed to Big Rivers. However, if~~
21 ~~ancillary services (Schedules 1 and 2) are not taken under the GFA, then~~
22 ~~Schedules 1 and 2 will be charged and the associated revenues would be~~
23 ~~distributed to Big Rivers.~~

24
25 Distribution of Revenue for Point-to-Point Transmission Service

- 26 • In accordance with the TOA (Appendix C.III.A.3, 5, and 6) the following point-5
27 to-point transmission service revenues (Schedules 7, 8, and 1) collected by the
28 Midwest ISO would be distributed 100% to Big Rivers:
- 29 ○ Revenues collected by the Midwest ISO for transmission services
30 associated with power transactions where the generation source(s) and
31 load(s) are physically located within the Big Rivers Zone shall be fully
32 distributed to Big Rivers whether the generation source is controlled by
33 Big Rivers or another entity.
 - 34 ○ Revenues collected by the Midwest ISO for Point-to-Point transmission
35 service for delivery directly to a wholesale requirements customer or a
36 former wholesale requirements customer of Big Rivers shall be distributed
37 to Big Rivers.
 - 38 ○ Revenues collected by the Midwest ISO for Drive-in Point-to-Point
39 transmission service shall be fully distributed to Big Rivers if Big Rivers
40 is a Border TO that purchases power from outside the Midwest ISO for
41 delivery to its Zone and pays the Midwest ISO for such transmission
42 service to effectuate that purchase.

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- 1 ○ Please note: Except by mutual agreement of the parties to a GFA, the
2 Midwest ISO shall not collect or distribute any revenues for transmission
3 service related to such agreements.
4

5 Distribution of Revenue for Out and Through Transmission Service

- 6 • Big Rivers would receive a share of Midwest ISO revenues collected for drive-5
7 out, drive-through, and certain drive-within point-to-point transmission service. In
8 accordance with the TOA (Appendix C.III.A.7), this revenue is distributed among
9 TOs using the following methodology:
10 ○ “(i) fifty percent (50%) of such revenues shall be distributed in proportion
11 to transmission investment (calculated each month based on the relative
12 proportion of transmission investment reflected in the then applicable rates
13 determined by the formula in Attachment O to the Transmission Tariff);
14 and (ii) fifty percent (50%) of such revenues shall be shared based upon
15 power flows. Such power flows shall be calculated using load flow
16 analysis techniques to develop transaction participation factors. The
17 methodology for developing transaction participation factors is described
18 in Appendix C-1. Participation factors less than three percent (3%) shall
19 be ignored.”
20

21 ***Item PSC 2-9) Refer to Big Rivers’ response to Staff’s First Request, Item 2, page 2.***
22 ***Do the estimated costs in 2014 shown for Big Rivers under “Injection/Withdrawal”***
23 ***reflect the recent decision of First Energy to withdraw as a member of Midwest ISO?***
24 ***Explain the impact of First Energy’s withdrawal on the estimated costs to Big Rivers in***
25 ***2014 and in subsequent years.***

26 **Original Response)** The estimated costs in 2014 shown for Big Rivers under
27 “Injection/Withdrawal” in Item PSC 1-2b of the first data request do not reflect the
28 decision of First Energy to withdrawal as a member of the Midwest ISO. Based on the
29 same proposed “Injection-Withdrawal” methodology used for the original Big Rivers
30 estimate excluding First Energy would increase the total annual charges in 2014 to \$9.0
31 million based on all load in the Big Rivers Pricing Zone, and if GFA load is not included
32 the estimated annual charges would be \$3.9 million. It is likewise important to remember
33 that the membership in the Midwest ISO continues to evolve and change. While it is true
34 that First Energy has chosen to leave the Midwest ISO, others like Mid American Energy
35 and Dairyland Power Cooperative have recently decided to join. Accordingly, it is
36 extremely difficult to predict what these changes will be in subsequent years beyond
37 2014.

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1 **Supplemental Response:** The proposal filed at FERC was different than the initial
2 Injection / Withdrawal proposal. See also the Supplemental Response to PSC 2-1, above,
3 for estimated impacts under the Multi Value Project process which was filed and pending
4 with FERC.

5 **Item PSC 2-12) Refer to Big Rivers' response to Staffs First Request, Item 2, page 2,**
6 **lines 7-13, and Item 6, lines 11-13. On April 13, 2010, the Midwest ISO presented**
7 **"Modeling Results of Midwest ISO Straw Proposal" to the Cost Allocation and**
8 **Regional Planning group of the Organization of MISO States. Assume that the**
9 **allocation methodology upon which those results were based is submitted to, and**
10 **accepted by, FERC and that, after that approval, Big Rivers becomes a member of the**
11 **Midwest ISO in the third quarter of 2010.**

12
13 *a. Provide a calculation of the costs that would be allocated to Big Rivers*
14 *in years 2014 and 2024 under that proposed methodology. In providing the*
15 *costs, present them as "Injection/Withdrawal Charges Applied to All Load in*
16 *Big Rivers Pricing Zone" and as "Injection/Withdrawal Charges Applied to*
17 *Non-GFA Load in Big Rivers Pricing Zone" as was done in Big Rivers'*
18 *response to Staffs First Data Request, Item no. 2.*

19
20 *b. Provide a calculation of the costs that would be allocated to Big Rivers*
21 *in years 2014 and 2024 under the current Midwest ISO cost allocation*
22 *methodology.*

23 **Original Response)**

24 a. See estimates provided in response to Item PSC 2-9, above for 2014. In
25 addition to the 2014 test year the Midwest ISO also has estimated the potential impacts to
26 Big Rivers under the proposed Injection/Withdrawal methodology as of March 22, 2010
27 using a 2024 test year taking into account future load growth, state RPS mandates,
28 generation expansion, and new transmission facilities. In 2024 the majority of the new
29 transmission facilities are estimated to be driven by the results of the Midwest ISO's
30 Regional Generation Outlet Study (RGOS) that is currently under development and
31 additional refinements as the various drivers, primarily renewable energy mandates,
32 continue to evolve. The 2024 estimates provided assume that all of the transmission
33 identified in the RGOS, with an estimated total cost of approximately \$16 billion, 1 is in-
34 service and subject to cost recovery under the proposed Injection/Withdrawal
35 methodology. These results that attempt to predict and project out over a fifteen (15) year
36 time horizon and merely indicative of a general direction and can not and do not take in
37 to account all of the potential intervening variables that could both completely change as
38 well as mitigate the perceived impacts. Therefore, the 2024 results shown below are, at
39 best, indicative estimates and likely to change depending on, but not limited to, actual

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1 transmission investment, changes to evolving cost allocation methodologies, load shifts
2 and growth, and future RPS mandates.
3

4 In estimating the potential effects of this on Big Rivers' decision to join the Midwest ISO
5 the following represent the application of (1) the proposed Injection/Withdrawal
6 methodology, (2) utilizing the projected 2024 RGOS estimates, (3) calculated with and
7 without GFA load being allocated costs. As shown in Figure 2, below, the estimated
8 annual potential total charges under Injection/Withdrawal in 2024 for Big Rivers is \$52.9
9 million if *all* Big Rivers load part of the calculation which then decreases to \$29.1 million
10 if GFA load is excluded from the computation.

11 Note that the 2024 cost estimates for Big Rivers' do not reflect or capture amounts that
12 would, likewise, be contributed by other transmission owners toward transmission
13 upgrades that Big Rivers proposes are included for cost sharing under the same
14 methodology.
15

16 b. The transmission facilities included for years 2014 and 2024 primarily
17 represent reliability projects scheduled tentatively to go in-service through 2014 or 2024
18 but which have not yet been approved. Note that since Big Rivers has not been a part of
19 the Midwest ISO planning process all of the projects included in the 2014 or 2024 test
20 year are located outside of the Big Rivers Pricing Zone. Also, note that under current
21 Midwest ISO policy that relieves new entrants of the responsibility to pay for projects
22 planned prior to their entry year, some of the modeled costs may ultimately be excluded
23 from the transmission cost allocated to Big Rivers. The cost allocation methodology
24 applied to calculate the 2014 and 2024 cost estimates is based on the currently effective
25 Tariff described in my direct testimony starting on Page 18 Line 15.
26

27 In estimating the potential costs to Big Rivers under the current cost allocation
28 methodology in 2014 and 2024 the Midwest ISO has performed the calculation with and
29 without GFA load being allocated costs. As shown in Figure 3 the estimated annual total
30 charges in 2014 for Big Rivers is \$1.0 million if all Big Rivers load is charged and
31 decreasing to \$0.20 million if GFA load is excluded.

32 In 2024 the estimated annual total charges for Big Rivers applying the current cost
33 allocation methodology is \$1.5 million and decreasing to \$0.35 million if GFA load is
34 excluded, see Figure 4. Note that the 2024 estimate under the current cost allocation
35 methodology excludes the transmission costs associated with the Regional Generation
36 Outlet Study that are included in the cost estimates provided in Item PSC 2-9 under the
37 proposed Injection/Withdrawal cost allocation methodology. Under the current cost

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1 allocation methodology transmission identified through the Regional Generation Outlet
2 Study likely would not qualify for cost sharing treatment. The 2024 cost estimate is based
3 on currently available information and subject to change as projects are identified and
4 reviewed through the Midwest ISO regional planning process.

5 Note that both the 2014 and 2024 cost estimates for Big Rivers' do not reflect or capture
6 amounts that would, likewise, be contributed by other transmission owners toward
7 transmission upgrades that Big Rivers proposes and are included for cost sharing under
8 the same methodology

9 Supplemental Response: The proposal filed at FERC was different than the initial
10 Injection / Withdrawal proposal. See also the Supplemental Response to PSC 2-1, above,
11 for estimated impacts under the Multi Value Project process which was filed and pending
12 with FERC.

13 Part II

14 Supplemental Responses to KIUC First and Second Data Requests

15 Item KIUC MISO 1-9) *Please provide an estimate of the incremental amount, stated*
16 *in dollars, that Big Rivers will be obligated to pay in each year, 2011 through 2015,*
17 *based on MISO's final grandfathering decision compared to its financial obligation if*
18 *all the above wholesale contracts had been grandfathered.*

19 **Original Response:** The terms grandfathering and grandfathering decision in questions
20 8-9 is assumed to refer to Grandfathered Agreements and Treatment of Grandfathered
21 Agreements, under the Midwest ISO's Tariff, including section 38.8.3(A). Module A of
22 the Tariff defines Grandfathered Agreements as An agreement or agreements executed or
23 committed to prior to September 16, 1998 or ITC Grandfathered Agreements that are not
24 subject to the specific terms and conditions of this Tariff consistent with the
25 Commission's policies. These agreements are set forth in Attachment P to this Tariff.

26
27 Based on the initial evaluation of the agreements that may qualify as GFAs under the
28 Midwest ISO's Tariff, the Midwest ISO plans a future filing to add any appropriate
29 agreements to Attachment P of the Tariff. Ultimately, the Treatment received will be
30 dependent on the individual agreements and the terms of the Tariff, and must be
31 approved by the Commission as part of an Attachment P filing.
32

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1 Such Grandfathered Agreements relate to Transmission Service, and as such to the extent
2 any wholesale contracts failed to qualify for Treatment as a GFA, individual customers
3 would convert to standard OATT service. Any financial impact would be limited to the
4 difference between existing service rates and OATT rates, which may not directly impact
5 Big Rivers.
6

7 With the exception of Transmission Service rates, and exemption from allocation of
8 RECB charges under the current Schedule 26, Transmission Service receiving Option A
9 or C GFA treatment essentially receive charges and credits consistent with all other types
10 of Transmission Service and associated Market Transactions. As a result, any incremental
11 amounts would equal the difference between RECB Charges allocated to transmission
12 customers taking service under the OATT versus RECB Charges allocated to customers
13 taking service under GFAs. See responses to questions 2.a. and b. of the KPSC Data
14 request for further content related to any RECB charges that may be allocated on GFAs
15 post July 2010.

16 **Supplemental Response:** On April 6, 2010, the Midwest ISO filed with the Federal
17 Energy Regulatory Commission proposed modifications to attachment P to its Tariff, to
18 classify certain Grandfathered agreements of Big Rivers Electric Corporation. On May
19 26, 2010, the FERC approved these modifications, effective September 1, 2010. As a
20 result of these proceedings, the previously provided responses do not require any
21 additional modifications.

22 **Item KIUC MISO 1-11)** *Please provide the current MTEP operating plan and budget*
23 *for each of the years 2011 through 2015 with respect to expansion of transmission*
24 *facilities to the Great Plains region in order to connect wind energy sources to the*
25 *MISO transmission grid. In your response, please include the following:*
26

27 *(a) the projected dates or range of dates for each facility expansion;*

28 *(b) the projected range of cost for each facility expansion;*

29 *(c) the current stage of the approval process for each facility expansion;*

30 *(d) a narrative discussion of competing positions among stakeholders within*
31 *MISO about whether transmission expansion to accommodate wind facilities,*
32 *generally, should be undertaken by MISO Transmission Owners (TOs), and*
33 *about how the costs of such facilities should be allocated among stakeholders.*
34
35
36

37 **Original Response with Supplemental Response** (contained as edits in red):

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1 a. Certain transmission upgrades to integrate specific wind generators are
2 currently in the Midwest ISO Transmission Expansion Plan (MTEP). These projects are
3 identified as Generator Interconnection Projects and are identified in Appendix A of the
4 MTEP. However, no large scale transmission projects designed to integrate wind energy
5 resources to the grid are reflected in the current MTEP plan. The Midwest ISO is
6 currently performing a study to determine the best transmission solution to deliver
7 enough energy from renewable resources (predominately wind) to load in order to meet
8 existing state renewable portfolio standards (RPS). This study is called the Regional
9 Generator Outlet Study or RGOS. The RGOS is an open and collaborative planning effort
10 between the Midwest ISO and our Stakeholders. Additional study details can be found on
11 the Midwest ISO website through the link to our Renewable Energy gateway which
12 provides an update on the progress of this study⁴. Because the RGOS study is in the
13 transmission project design and alternative evaluation phase, there is neither a definitive
14 plan or an implementation schedule at this time. However, the Midwest ISO expects the
15 RGOS transmission to be built in a phased in approach over the next ~~5-10~~ 15 years
16 beginning with transmission projects expected to provide benefit under a wide variety of
17 energy policy outcomes.

18 b. Because the RGOS is still ongoing, final cost estimates are not available at this
19 time. Currently it is estimated that ~~135~~ to ~~1620~~ billion dollars in new transmission
20 investment may be needed to support state RPS in the Midwest ISO footprint. These
21 projections will change as the planning process evolves, or if there are changes in public
22 policy driving RPS.

23 c. Because the projects being considered in the RGOS are still in the planning
24 phase they are not yet in the formal approval process. Once the RGOS is completed it is
25 expected that these portfolio of transmission projects identified would be moved into
26 Appendix B of the MTEP. Appendix B projects are projects that are demonstrated to be a
27 potential solution to an identified reliability, policy or other need, or to an identified cost
28 savings or other benefit. The Midwest ISO is targeting the RGOS projects to be in
29 Appendix B for the 2010 MTEP.

30 The next phase of the approval process would be to move the projects to Appendix A.
31 Appendix A projects are projects that have been justified to be the preferred solution to
32 an identified reliability, policy or other need, or to achieve an identified cost savings or
33 other benefit. To reach Appendix A status, a project must be approved by the Midwest
34 ISO Board of Directors.

35
36 d. There is general agreement among many Midwest ISO Transmission Owners
37 and other stakeholders that transmission expansion is needed to integrate new kinds of
38 variable resources (predominately wind) into the Midwest ISO system in order for our
39 stakeholders to be compliant with existing state RPS, as well as maintain reliability and

⁴<http://www.midwestmarket.org/page/Renewable%20Energy%20Study>

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1 reduce congestion on the system. The majority of states within the Midwest ISO currently
2 have some kind of RPS and there is a potential for a federal RPS at some point in the
3 future. Because of this the need for transmission expansion is well defined and accepted.
4 There is ongoing discussion and varied opinions regarding what kind and size (DC v. AC,
5 345kV v. 765 kV) of transmission expansion is needed to not only meet current needs but
6 be robust enough that it would provide benefits given
7 the uncertainty around future needs (i.e. Federal RPS, development of nuclear
8 technology, increased demand response resources etc.). The purpose of the RGOS is to
9 evaluate these different options and come up with the best engineering solution(s) to the
10 challenge of integrating large amounts of variable generation into the Midwest ISO
11 system.

12
13 The Midwest ISO and our Stakeholders have been engaged in discussions on how the
14 cost of transmission development should be allocated since January of 2009. Some
15 stakeholders feel that broad cost sharing should be limited to unique policy driven
16 projects, and that those costs should be shared equally. Other stakeholders feel that one
17 cost sharing methodology that applies to all transmission expansion is more appropriate.

18
19 There are also varied opinions on the specific details of who should pay costs. Should all
20 of the costs be paid directly by load or should some of the costs be carried by generators
21 as a means to target the appropriate end use load? Should transmission revenue
22 requirements be allocated on the basis of voltage, project flow or some combination?
23 ~~Over the~~ Although opinions vary last 19 months, the Midwest ISO has worked
24 closely with our stakeholders through our Regional Expansion Criteria and Benefits Task
25 Force (RECBTF) and our state commissions through the Organization of Midwest ISO
26 States Cost Allocation and Regional Planning (CARP) group to achieve a cost allocation
27 methodology that will be broadly accepted.

28
29 On July 15th, after taking under consideration the multiple, divergent positions and input
30 provided by stakeholders over the previous 19 months, the Midwest ISO filed with the
31 Federal Energy Regulatory Commission ("FERC") a cost allocation proposal designed to
32 establish a new transmission project and cost allocation category called Multi Value
33 Project ("MVP"). MVPs are defined as projects that enable the reliable and economic
34 delivery of energy in support of documented energy policy mandates and address,
35 through the development of a robust transmission system, multiple reliability and/or
36 economic issues affecting multiple transmission zones. Recognizing the regional nature
37 of such projects, their costs are proposed to be allocated to all load in, and exports from,
38 the Midwest ISO on an energy (MWh) basis via a postage-stamp rate. A project must
39 meet at least one of the following three criteria in order to qualify for sharing as an MVP:

40
41 1) Enables the reliable delivery of energy in support of a documented public
42 policy mandate or law;
43

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1 2) Provides multiple types of economic value across multiple pricing zones; or
2

3 3) Addresses at least one reliability issue associated with a NERC or Regional
4 Entity standard and provides economic value to multiple pricing zones.
5

6 The new MVP transmission project category, and its associated broad-based cost
7 allocation, are designed to: (1) facilitate the integration of large amounts of location-
8 constrained resources, including renewable generation resources; (2) support Midwest
9 ISO member and customer compliance with evolving state and federal energy policy
10 requirements; (3) enable the Midwest ISO to address multiple reliability needs and
11 provide economic opportunities through regional transmission development.
12

13 **Item KIUC MISO 1-12) Please refer to lines 9-10 of page 9 of your direct testimony.**
14 ***Please provide evidence, including Documents and Studies, that serve as a foundation***
15 ***for the statement "We (MISO) have operated for more than a year under this model***
16 ***with excellent performance." In your answer, please identify criteria by which***
17 ***performance is assessed, and explain how performance is gauged, given predefined***
18 ***measurement criteria.***

19 **Original Response with Supplemental Response (contained as edits in red):**

20 The criteria used to determine that Midwest ISO Balancing Authority (BA) operation has
21 achieved excellent performance are the NERC Control Performance Standards. Since the
22 launch of the Midwest ISO ASM market on January 6, 2009, the Midwest ISO has been
23 the Balancing Authority for its entire market footprint. The Midwest ISO has been
24 participating under the NERC Balancing Authority ACE Limit (BAAL) Proof-of-
25 Concept Field Trial for the same period which replaces Control Performance Standard 2
26 (CPS 2) performance criterion.
27

28 From January 6, 2009 to date, Midwest ISO BA has been fully compliant with Control
29 Performance Standard 1 (CPS 1), BAAL and Disturbance Control Standard (DCS) as
30 evidenced in NERC auditable reports to the Regional Entities and NERC.

31 To date the Midwest ISO has been over 100% Compliant with CPS 1 for every month of
32 BA Operation and currently has a rolling 12 month Average CPS 1 compliance of
33 134.9131.1%. NERC requires each Balancing Authority to achieve, as a minimum, CPS
34 1 compliance of 100%.

35 Also to date, as the BA Operator, the Midwest ISO participated in the Midwest
36 Contingency Reserve Sharing Group (CRSG) from Jan 6, 2009 through Dec 31, 2009 and
37 is currently coordinating with Manitoba Hydro under a separate Reserve Sharing
38 Agreement that began Jan 1, 2010. Under the previous Midwest CRSG and the current
39 arrangement with Manitoba Hydro, the Midwest ISO has participated in 911 DCS level
40 events and has been 100% Compliant with DCS for all events.
41

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1 Finally, the Midwest ISO has been 100% Compliant with BAAL under the Proof-of-
2 Concept Field Trial noted above.

3
4 **Item KIUC MISO 1-18) Refer to lines 16-21 of page 18, and lines 1-2 of page 19 of**
5 ***your direct testimony. Please provide Documents and Studies, including workpapers,***
6 ***used by MISO for the determination of the Cost of New Entry (CONE).***

7 **Response)** The Midwest ISO works closely with the Independent Market Monitor
8 (“IMM”) in developing estimates of CONE. The IMM uses these estimates of CONE in
9 his annual ‘State of the Market’ report that he files with the Midwest ISO Board and
10 FERC to assess the odds that certain resource types participating in the Midwest ISO
11 Markets can achieve enough revenues to cover expected costs. CONE estimates are used
12 as a value of new investment in generation resources. These estimates of CONE have
13 been filed and justified with the FERC: see the below excerpt from the Midwest ISO
14 Compliance Filing in FERC Docket No. ER08-394-003 filed on November 19, 2008
15 (pages 5-10) as one such example.

16
17 “In response to the Commission’s directive, the Midwest ISO has reviewed the
18 methodology used in other RTOs/ISOs, as well as, consulted with the IMM regarding the
19 CONE value. The current CONE value of \$80,000/MW-year was estimated by the
20 Midwest ISO’s IMM for use in their 2007 State of the Market Report. This CONE value
21 is based on the overnight capital costs with a five percent contingency factor and the
22 fixed operating and maintenance costs for a conventional combustion turbine built in the
23 Midwest ISO Region developed by the Energy Information Administration for the 2008
24 Annual Energy Outlook.”

25 “These values were stated in 2006 dollars so the IMM inflated the costs by 6.5 percent to
26 report them in 2008 dollars. To include additional factors that were not included in the
27 overnight capital costs, the IMM included an additional 7.5 percent to reflect financing
28 costs and the carrying cost of working capital. Taken together, the IMM assumed capital
29 costs of \$555 per kW and fixed operating and maintenance of \$12.55 per kW-year.”

30
31 “In order to produce the annualized CONE from these cost numbers, the IMM assumed a
32 50/50 debt to equity ratio, 15 year depreciation, 20 year project life and loan term, 7
33 percent loan interest rate, 3 percent escalation factor, 2.5 percent GDP deflator, 43
34 percent combined federal and state tax rate, and 12 percent return on equity. These
35 assumptions are comparable to the assumptions used by other RTOs in the development
36 of CONE estimates and produce a levelized CONE value of \$80,000/MW-year.”

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1 **Supplemental Response:** While the CONE estimate in use today under the Midwest ISO
2 tariff is \$80,000/MW-year, FERC requires the Midwest ISO to file updates to these
3 estimates each year on 1 August. The Midwest ISO will make this compliance filing on 1
4 August 2010 as required by FERC, and indicate that the revised estimated value for
5 CONE for the 2011/2012 planning year is \$95,000/MW-year. The IMM is in full support
6 of this revised estimate, and the methodology for estimating this value of CONE remains
7 as described in the original response.

8
9 **Part II**

10 **Supplemental Responses to KIUC Data Requests to BREC**

11 **Item KIUC 1-23)** *Has Big Rivers, MISO, or any other party estimated Big Rivers' exit*
12 *fees for any year after 2015? If so, please provide all Documents, Studies and work*
13 *papers supporting the estimate of such exit fees.*

14 **Original Response:** Neither Big Rivers nor any party working on behalf of Big Rivers in
15 this matter has estimated the exit fees from the Midwest ISO for any year beyond 2015.
16 Representatives of the Midwest ISO have informed Big Rivers that the Midwest ISO has
17 not performed such calculations. However, the exit fees as calculated by the Midwest
18 ISO for yearend 2009 and year end 2015 show a decline in magnitude which would
19 presumably continue for years beyond 2015.

20
21 **Supplemental Response:** Yes, Midwest ISO has calculated exit fees beyond 2015
22 which includes an exit fee as of December 31, 2020. This estimated exit fee calculation
23 is included as part of the Supplemental Response in to KIUC 2-4, below, as well as PSC
24 2-4, above.

25 **Item KIUC 2-4)** *Please refer to KNJC items 1-22 and 1-23.*

26 *a. Do the forecasted exits fees of \$6 million in 2009 and \$3.5 million at*
27 *the end of 20 5 include Big Rivers' cost responsibility for transmission projects*
28 *approved while it was a member? If not, please recalculate the exit fees to include such*
29 *amounts.*

30 *b. Please confirm that the only document in the possession of Big Rivers*
31 *that attempts to calculate MISO exit fees is the October 15, 2009 email from MISO.*

32 *c. Please provide all documents, workpapers and computer models which*
33 *support these exit fee calculations.*

34 *d. Please provide the same exit fee calculations for 2020.*

35 **Original Response)**

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1 a. No. The estimated, forecasted exit fees of \$6 million in 2009 and
2 \$3.5 million at the end of in 2015 do not include cost responsibility for transmission
3 projects approved under the MTEP process under the scenario that Big Rivers is assumed
4 to be a member. The Midwest ISO handles the cost responsibility for transmission
5 projects under a separate calculation because, unlike forecasted exit fees, the source of
6 these costs are from the Midwest ISO Transmission Owners.
7

8 Rig Rivers' potential cost responsibility for transmission that is approved through
9 2015 would be highly dependent on the transmission cost allocation methodology in
10 effect during that time period. At the time of this response the proposed cost allocation
11 method is continuing to evolve, which would impact the forecasted exit fee transmission
12 component. The estimated value provided below is based on transmission projects that
13 presumably approved after July 15, 2010 and placed in-service before the end of 2014,
14 allocated using the currently effective Tariff structure. Additional projects approved
15 during this time period but not in-service as of 2014 would not be included in the
16 estimate provided. The present value of the annual revenue requirements for the
17 estimated, projected portion of transmission costs allocated to BREC over this period,
18 assuming an 8% discount rate and 40-year book life for any such projects, is \$2.2 million
19 in comparable 2009 dollars. It must be noted that this estimate does not reflect or capture
20 amounts that would, likewise, be contributed by the other transmission owners toward
21 transmission upgrades that Rig Rivers proposes and are included in the same process.
22 The forecasted exit fees do not include the cost responsibility for transmission projects
23 approved while it was a member.

24 b. The only document that attempts to calculate Midwest ISO exit fees is the
25 October 15, 2009 email from Midwest ISO.\

26
27 c. The 20 15 exit fee model has been attached (RREC 12.3 1 15 Exit Fee Calc
28 FINAL)
29

30 d. The following exit fee numbers are the best estimates, based upon
31 the facts and circumstances known at this time projected for Rig Rivers out ten years to
32 2020. By extrapolation and comparison of the estimated 201 *S* projection, the most
33 relevant factors and sections of the Midwest ISO financial obligations that make up what
34 would be the basis of the exit fee calculation are and continue to decrease (except for:
35 accrued liabilities, which normally remain consistent; and operating leases).
36 Accordingly, the estimated exit fee projection for Rig Rivers would follow suit and
37 decline from \$3.3M in 201 5 to \$2.9M in 2020. The attachment is titled ("BREC 123120
38 Exit Fee Calc DRAFT.pdf")
39

40 **Supplemental Response:** No. The forecasted exit fees of \$6 million in 2009 and \$3.5
41 million at the end of 2015 do not include cost responsibility for transmission projects

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1 approved during the MTEP process assuming Big Rivers is a member. The Midwest ISO
2 handles the cost responsibility for transmission projects under a separate calculation
3 because, unlike forecasted exit fees, the source of these costs is from the Midwest ISO
4 Transmission Owners. If Big Rivers would exit in 2015 they would only be obligated to
5 pay for the projects approved during the time they were a Midwest ISO member. Big
6 Rivers' potential cost responsibility for transmission projects that are approved through
7 2015 would be highly dependent on the transmission cost allocation methodology in
8 effect during that time period and the cost of the transmission projects approved during
9 that time. As described in the response to PSC 2-1b the Midwest ISO filed with the
10 Federal Energy Regulatory Commission a new cost allocation methodology for a new
11 project type called Multi Value Projects. In addition to Multi Value Projects Big Rivers
12 could be allocated portions of other project types eligible for cost sharing such as
13 Baseline Reliability Projects.

14 The estimated Big Rivers obligation for approved transmission projects provided below
15 are based on the average annual revenue requirements over the 40-year book-life of the
16 approved transmission projects for the *estimated* portion of transmission costs allocated
17 to Big Rivers over this period. The actual methodology utilized in the event Big Rivers
18 would choose to exit in 2015 may differ depending on the agreement that would need to
19 be reached with the Midwest ISO Transmission Owners at the time of exit. The Midwest
20 ISO has estimated the potential obligation if Big Rivers would exit in 2015 for two types
21 of cost shared projects, Baseline Reliability Projects and Multi-Value Projects.

22 The estimated Big Rivers obligation if they would choose to exit in 2015 for Baseline
23 Reliability Projects is based on the types and costs of projects approved in the past
24 assuming that this level of investment continues in the future with Big Rivers as a
25 member. Utilizing the methodology generally described above, the estimated average
26 annual obligation for Big Rivers over a 40-year book-life period for Baseline Reliability
27 Projects would calculate to be approximately \$0.38 million per year, in 2010 dollars.

28 Since Multi Value Projects are a new project-type that are proposed to *be* eligible for cost
29 sharing, pending FERC approval, the Midwest ISO has made a rough estimate of the
30 hypothetical obligation. This estimate necessarily presumes that: (1) FERC accepts the
31 pending MVP proposal; (2) MV Projects get proposed and approved under the multiple
32 tiers of review and scrutiny as noted in the Supplemental Response to Item PSC 2-1,
33 above; (3) the projects go forward and actually get built; and (4) the project gets
34 energized and placed into service by an exit decision by Big Rivers in 2015. With these
35 factors in mind, an estimate using \$1 billion in Multi Value Project(s) costs purely as an

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1 illustrative amount would translate into an amount to Big Rivers under a 2015 exit
2 scenario of \$1.7 million, in 2010 dollars, per year over the 40-year book-life period for
3 such projects.

4 It must be noted that the estimates provided do not reflect or capture any amounts that
5 would, likewise, be contributed toward and paid by the other transmission owners for
6 transmission upgrades that Big Rivers proposes and are included in the MTEP/MVP
7 processes; nor do these rough calculations capture any corresponding benefits that would
8 also be realized by Big Rivers (and other transmission owners) that are the direct result of
9 such future transmission upgrades and expansions.

10
11
12 **Item KIUC 2-7) Please refer to PSC item 1-2.**

13 ***a. Please provide all computer models with cells intact, workpapers***
14 ***and other documents which support the \$8.8 million and \$3.8 million calculations.***

15
16 ***b. Please provide the same information requested in PSC item 1-2***
17 ***for each year from 2011 through 2020. Please include all computer models with cells***
18 ***intact, workpapers and other documents which support this calculation.***

19
20 ***c. Does the \$3.8 million cost, if GFA load is excluded, assume that***
21 ***(i) none of Big Rivers' wholesale power contracts have GFA status or (ii) only the***
22 ***wholesale power contracts with the Distribution Cooperatives have GFA status?***

23
24 ***d. With reference to item (c) above, please provide the cost estimate***
25 ***for the scenario, either (i) or (ii), that is not implicit in your original response.***

26 **Original Response)** The estimates provided previously in response to PSC Item 1-2 as
27 well as the refinements provided below in subparts (a) through (d), inclusive, are based
28 on a
29 number of assumptions under the March 22, 2010 Midwest ISO proposed straw proposal
30 known as Injection- Withdrawal methodology ("I/W"). There have been numerous
31 Organization of MISO States - Cost Allocation, Regional Planning ("OMS-CARP") and
32 Stakeholder meetings that led up to the I/W as well as other proposed methodologies still
33 under discussion since March 22, 2010. The focus of these numerous OMS-CARP and
34 stakeholder meetings over the last fifteen months has been a concerted effort to address
35 the complex issue of establishing a fair allocation of costs to enable transmission system
36 development to support reliability and economic goals, renewable resource integration,
37 and other public policy objectives, while maintaining the Midwest ISO Value
38 Proposition. There has been and continues to be a considerable amount of OMS-CARP

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1 and stakeholder feedback, input, and direction provided to the Midwest ISO to assist it
2 with the important determination of what methodology should be selected and presented
3 to FERC in the Midwest ISO's July 15, 2010 filing. Accordingly, the proposed cost
4 allocation modifications that the Midwest ISO will ultimately make in its July 2010
5 FERC filing continues to evolve and change, even since the March 22, 2010 Injection-
6 Withdrawal straw proposal. Cost estimates for Big Rivers excluding their GFA load
7 based on the proposals currently under consideration is available on the Midwest ISO
8 website⁵. It must further be noted that these estimates do not reflect or capture amounts
9 that would, likewise, be contributed and paid by the other transmission owners toward
10 transmission upgrades that Big Rivers proposes and are included in the same process.

11
12 a. See the file titled "BREC Response to KIJC Question 2-7a Model
13 based on All BREC Load .xlsx" on the attached CD for the supporting calculation of the
14 \$8.8 million estimate of total charges to Big Rivers load in the 2014 test year. The \$8.8
15 million estimate is located on the tab named "Retail and State Impact" in cell 123.

16
17
18 See the file titled "BREC Response to KITJC Question 2-7a Model based on
19 Non-GFA Load .xlsx" on the attached CD for the supporting calculation of the \$3.8
20 million Estimate of total charges to Big Rivers load in the 2014 test year. The \$3.8
21 million Estimate is located on the tab named "Retail and State Impact" in cell 123.

22
23 b. Using the proxy annual charges to Big Rivers' load under the
24 proposed I/W proposed cost allocation methodology⁶ in the 2014 and 2024 studied test
25 year the following graph (see Figure 1 , below), is a reasonable estimate of the
26 intervening years of 201 1 through 20 13 and 20 15 through 2023 based on linear
27 interpolation. Linear interpolation is a simplistic approach that is the only reasonable
28 way to timely provide the annual estimates requested in this data request. There has not
29 been, nor is there time and resources to do an in depth methodological study or analysis
30 for each of the years identified in the data request. It must be further noted that this
31 interpolation estimate graph does not reflect or capture amounts that would, likewise, be
32 contributed by the other transmission owners toward transmission upgrades that Big
33 Rivers proposes and are included in the same process, which would only tend to drive the
34 cost estimates down.

35
36 c. The \$3.8 million estimate is based on only the wholesale power
37 contracts with the Distribution Cooperatives having GFA status.
38

⁵ Link to document titled - "Cost Allocation Proposal Comparisons"
<http://www.midwestiiar.tet.or/~/~ublisli/Document/ff6b1b280201754d-7e3aOa48324a?rev=2>

⁶ See preliminary qualifications set forth at the beginning of this response regarding the cost estimates that are based on Injection/Withdrawal Proposal of March 22, 2010.

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1 d. The \$8.8 million estimate provided represents scenario (i) where
2 none of Big Rivers' wholesale power contracts have GFA status.
3

4 **Supplemental Response:**

5 b. The cost allocation methodology filed by the Midwest ISO on July 15th is different
6 than the methodology used in the initial response. See response to PSC 2-1 for an
7 updated quantification of the costs to BREC under the filed cost allocation methodology.

8 ***Item KIUC 2-12) Please refer to Big Rivers' response to PSC 1-20. At what point
9 in time will MISO seek FERC approval of its recommendation as to GFA status of
10 certain of Big Rivers' wholesale contracts? What is MISO'S best judgment as to when
11 FERC will act on the recommendation? Will it be prior to or subsequent to the KPSC
12 hearing and Order in this proceeding?***

13 **Original Response:** The Midwest ISO submitted a section 205 filing on April 7, 2010
14 (Docket No. ER10- 1024-000) to the Federal Energy Regulatory Commission ("FERC")
15 to revise the Midwest ISO's Attachment P (list of Grandfathered Agreements) proposing
16 to include Big Rivers' GFA agreements. See attached document.
17

18 **Supplemental Response:** FERC issued an order accepting the GFA status proposed by
19 Midwest ISO (described in the previous answers) on May 26, 2010. FERC Letter is
20 reproduced below:

21 FEDERAL ENERGY REGULATORY COMMISSION
22 WASHINGTON, DC 20426
23 OFFICE OF ENERGY MARKET REGULATION
24 In Reply Refer To:
25 Midwest Independent Transmission
26 System Operator, Inc.
27 Docket No. ER10-1024-000
28 May 26, 2010

29 Attention: Daniel M. Malabonga
30 Counsel
31 505 Ninth Street, NW
32 Suite 1000
33 Washington, DC 20004
34 Reference: Revised Attachment P (List of Grandfathered Agreements)
35

36 Dear Mr. Malabonga:

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1
2 On April 6, 2010, Midwest Independent Transmission System Operator, Inc.
3 (Midwest ISO) filed revised tariff sheets proposing to classify certain Grandfathered
4 Agreements of Big Rivers Electric Corporation's (Big Rivers) in connection with the
5 integration of Big Rivers into Midwest ISO as a transmission-owning member.
6 Pursuant to authority delegated to the Director, Division of Electric Power
7 Regulation- Central, under 18 C.F.R. 375.307, your submittal in the above referenced
8 docket is accepted for filing, effective September 1, 2010, as requested.
9

10 Notice of the filing was published in the *Federal Register* with comments, protests, or
11 interventions due April 27, 2010. Under 18 C.F.R. 385.210, interventions are timely
12 if made within the time prescribed by the Secretary. Under 18 C.F.R. 385.214, the
13 filing of a timely motion to intervene makes the movant a party to the proceeding, if
14 no answer in opposition is filed within fifteen days. No adverse comments or protests
15 were filed. The filing of a timely notice of intervention makes a State Commission a
16 party to the proceeding.
17

18 This action does not constitute approval of any service, rate, charge, classification, or
19 any rule, regulation, contract, or practice affecting such rate or service provided for in
20 the filed documents; nor shall such action be deemed as recognition of any claimed
21 contractual right or obligation affecting or relating to such service or rate; and such
22 action is without prejudice to any findings or orders which have been or may
23 hereafter be made by the Commission in any proceeding now pending or hereafter
24 instituted by or against any of the applicant(s).
25

26 This order constitutes final agency action. Requests for rehearing by the Commission
27 may be filed within 30 days of the date of issuance of this order, pursuant to 18
28 C.F.R. 385.713.

29 Sincerely,
30 Penny S. Murrell, Director
31 Division of Electric Power
32 Regulation – Central

33 **Item KIUC 2-20) For each month during 2010 please provide the number, duration,**
34 **amount in MW and cause of each event when Big Rivers was required to call on MIS0**
35 **for reserve sharing. This is a continuing request.**
36

37 **Original Response with Supplemental Response** (contained as edits in red): Big
38 Rivers has requested and received contingency reserve supply from Midwest ISO on 36
39 occasions thus far in 2010 ~~2010~~ ^{six occasions in each of the first three months of 2010 for}
40 ~~a total of 18 occasions.~~ The individual event summaries are provided monthly in the
41 attached documents.

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1

2



Att RR BREC
Updated 08172010.x

3

4

LEXLibrary LR09470 . 0573666 431430v1

<u>Recipient</u>	<u>Start Time (EST)</u>	<u>Stop Time (EST)</u>	<u>MW</u>	<u>Reason</u>
BREC	01/02/2010 19:52	01/02/2010 20:30	140	lost two mills at Wilson
BREC	01/04/2010 09:16	01/04/2010 10:00	120	loss of Henderson 1
BREC	01/07/2010 22:57	01/07/2010 23:30	90	N/A
BREC	01/26/2010 07:24	01/26/2010 08:00	120	loss of Henderson 1
BREC	01/26/2010 13:22	01/26/2010 14:00	100	loss of Green Unit 1
BREC	01/29/2010 00:24	01/29/2010 01:00	70	N/A
BREC	02/04/2010 00:38	02/04/2010 01:15	80	Lost a mill @ Wilson
BREC	02/09/2010 03:30	02/09/2010 04:00	130	REID 4 TRIP
BREC	02/15/2010 21:53	02/15/2010 22:10	110	Loss of Henderson 2
BREC	02/15/2010 22:10	02/15/2010 22:30	20	Loss of Henderson 2
BREC	02/20/2010 19:53	02/20/2010 20:08	60	Lost a mill @ Wilson
BREC	02/24/2010 17:31	02/24/2010 18:00	95	Lost a mill @ Wilson
BREC	02/24/2010 18:41	02/24/2010 19:00	70	Lost a mill @ Wilson
BREC	03/02/2010 11:54	03/02/2010 12:57	130	Loss of Coleman 1
BREC	03/05/2010 05:20	03/05/2010 05:42	160	Loss of Henderson 2
BREC	03/18/2010 20:16	03/18/2010 21:00	50	Issues w/ Wilson
BREC	03/24/2010 18:33	03/24/2010 19:00	35	Loss of Mill at Coleman
BREC	03/30/2010 06:03	03/30/2010 06:15	65	Loss of Mill at Coleman
BREC	03/30/2010 19:38	03/30/2010 20:00	110	loss of Henderson 1
BREC	04/01/2010 12:57	04/01/2010 14:00	230	Loss of Wilson 1
BREC	04/05/2010 22:38	04/05/2010 23:00	240	Loss of Wilson 1
BREC	04/08/2010 19:04	04/08/2010 20:00	50	Loss of Wilson 1 in startup
BREC	04/08/2010 20:00	04/08/2010 20:16	20	Reduction in original event above
BREC	04/14/2010 09:55	04/14/2010 10:30	125	Loss of Coleman 1
BREC	04/23/2010 10:03	04/23/2010 10:12	105	Loss of mill at Wilson
BREC	04/23/2010 10:12	04/23/2010 10:16	185	Increase in event above, Wilson still losing MW
BREC	04/23/2010 10:16	04/23/2010 10:30	415	Increase in event above, Lost Wilson
BREC	04/23/2010 10:30	04/23/2010 11:00	315	Reduction in event above
BREC	04/23/2010 11:00	04/23/2010 11:04	125	Reduction in event above
BREC	04/23/2010 11:04	04/23/2010 11:30	25	Reduction in event above
BREC	04/23/2010 14:10	04/23/2010 14:15	110	Loss of Wilson in startup
BREC	04/23/2010 14:15	04/23/2010 15:00	70	Reduction in event above
BREC	05/03/2010 06:27	05/03/2010 07:00	80	Loss of sched/mill trouble Coleman
BREC	05/06/2010 20:02	05/06/2010 21:15	125	Loss of Coleman 2
BREC	05/07/2010 12:17	05/07/2010 13:00	130	Loss of Hemphill 2
BREC	06/07/2010 12:42	06/07/2010 13:00	70	N/A
BREC	06/13/2010 13:10	06/13/2010 13:18	65	Loss of mil on their Wilson unit.
BREC	06/13/2010 13:18	06/13/2010 13:33	95	Loss of mil on their Wilson unit
BREC	06/13/2010 13:33	06/13/2010 14:00	295	Loss of their Wilson unit.
BREC	06/16/2010 12:03	06/16/2010 13:00	115	Loss of Henderson 2
BREC	06/22/2010 14:46	06/22/2010 15:00	35	Loss of mill at Henderson
BREC	07/15/2010 19:18	07/15/2010 20:00	30	Loss of Henderson unit II
BREC	07/21/2010 10:13	07/21/2010 10:35	85	Reduction of the Wilson unit
BREC	07/29/2010 20:07	07/29/2010 21:00	420	Loss of Wilson
BREC	07/29/2010 21:00	07/29/2010 21:15	120	Loss of Wilson
BREC	08/10/2010 17:10	08/10/2010 17:30	130	Loss of mill at Wilson

BREC	08/10/2010 17:30	08/10/2010 17:35	20	Reduction in original event above
BREC	08/11/2010 17:22	08/11/2010 18:00	40	Loss of Reid 6 CT