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March 15, 2021

**VIA ELECTRONIC FILING**

The Honorable Kimberly D. Bose  
Secretary  
Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

**Re: GridLiance Heartland LLC, Docket No. ER21-\_\_\_\_\_**  
**Annual Informational Filing of RY2021 Projected Net Transmission Revenue Requirement**

Dear Secretary Bose:

Pursuant to Section VI of GridLiance Heartland LLC's (GridLiance Heartland) formula rate protocols,<sup>1</sup> GridLiance Heartland submits this transmittal letter and supporting materials (Informational Filing) reflecting GridLiance Heartland's projected net transmission revenue requirement (Annual Projection) for Rate Year (RY) 2021, effective January 1, 2021. GridLiance Heartland's net revenue requirement is for its transmission facilities that are included in the Midcontinent Independent System Operator, Inc. (MISO) Open Access Transmission, Energy and Operating Reserve Markets Tariff (MISO Tariff), as well as its own Open Access Transmission Tariff (OATT) for facilities not included in MISO. GridLiance Heartland's rates under both tariffs went into effect on March 1, 2020. As such, this is GridLiance Heartland's first informational filing.<sup>2</sup> As set forth in the Protocols, this Informational Filing is provided to the Federal Energy Regulatory Commission (Commission or FERC) for informational purposes only and does not require any Commission action.

**I. BACKGROUND**

**A. GridLiance Heartland's Formula Rate**

**1. MISO Formula Rate**

GridLiance Heartland was formed specifically to develop, own, and operate transmission facilities within the MISO region. GridLiance Heartland and its sister transmission companies operating in other regional transmission organizations are subsidiaries of GridLiance Holdco, LP (GridLiance). GridLiance's

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<sup>1</sup> All references to GridLiance Heartland LLC's formula rate protocols herein are to both GridLiance Heartland's formula rate protocols in its Attachment O under the MISO Tariff, as well as Attachment S under GridLiance Heartland's OATT. GridLiance Heartland's protocols under both tariffs are identical. *GridLiance Heartland LLC*, 170 FERC ¶ 61,074 (2020), at P 9.

<sup>2</sup> Because GridLiance Heartland did not have rates in effect in 2019, no 2019 true-up information is included.

The Honorable Kimberly D. Bose

March 15, 2021

Page 2

transmission-only (Transco) utility subsidiaries, like GridLiance Heartland, collaborate with electric cooperatives, municipal utilities, joint action agencies, and others to plan for the future of the grid, invest in necessary electric infrastructure and implement strategies to improve system reliability and resiliency and reduce overall costs to customers.

On August 8, 2018, in Docket No. ER18-2342, GridLiance Heartland filed with the Commission a formula rate template and implementation protocols (Transmission Rate) to recover the costs of transmission facilities GridLiance Heartland would own in MISO.<sup>3</sup> On January 29, 2019, the Commission conditionally accepted GridLiance Heartland's Transmission Rate, subject to a further compliance filing, accepted GridLiance Heartland's proposed base return on equity (ROE) for filing, subject to the outcome of proceedings in Docket Nos. EL14-12 and EL15-45, and finally accepted GridLiance Heartland's proposal to include an income tax allowance, subject to refund, hearing and settlement judge procedures (January 29 Order).<sup>4</sup> The Commission held that the Transmission Rate would become effective once filed with the Commission to become part of MISO's Tariff.<sup>5</sup>

On March 8, 2019, MISO filed revisions to the MISO Tariff to include GridLiance Heartland under Schedules 7, 8 and 9 of its tariff and in the Ameren Joint Pricing Zone. These changes were approved by the Commission on January 31, 2020 in Docket Nos. ER19-1229 and ER19-1231.<sup>6</sup>

On June 5, 2019, MISO filed revisions to the MISO Tariff to include GridLiance Heartland's Annual Transmission Revenue Requirement (ATRR) and formula rate template under its tariff (ER19-2050). On January 31, 2020, the Commission issued an order accepting such changes, subject to condition.<sup>7</sup> On February 21, 2020, MISO submitted a compliance filing in Docket No. ER20-1050, which is pending with the Commission.

On December 5, 2019, GridLiance Heartland submitted changes to its formula rate to implement certain rate mitigation credits that it had proposed as part of its requested approval under section 203 of facilities from Electric Energy, Inc. in Docket No. EC20-13. On January 31, 2020, the Commission accepted GridLiance Heartland's proposed changes in Docket No. ER20-520.<sup>8</sup>

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<sup>3</sup> *GridLiance Heartland LLC*, Formula Rate Template Filing and Request for Rate Incentives, Docket No. ER18-2342 (Aug 29, 2018).

<sup>4</sup> *GridLiance Heartland LLC*, 166 FERC ¶ 61,067 (2019).

<sup>5</sup> *Id.* at P 1.

<sup>6</sup> *Midcontinent Independent System Operator, Inc.*, Docket No. ER19-1229, Letter Order dated Jan 31, 2020; *Midcontinent Independent System Operator, Inc.*, Docket No. ER19-1231, Letter Order dated Jan 31, 2020.

<sup>7</sup> *GridLiance Heartland LLC*, 170 FERC ¶ 61,073 (2020).

<sup>8</sup> *Midcontinent Independent System Operator, Inc.*, Docket No. ER20-520, Letter Order dated Jan 31, 2020.

The Honorable Kimberly D. Bose

March 15, 2021

Page 3

Since acceptance of GridLiance Heartland's formula rate template, GridLiance Heartland reached a settlement with respect to its income tax allowance that was set for hearing in the January 29 Order, and that settlement was approved by the Commission. Specifically, on December 19, 2019, in Docket No. ER19-2488, the Commission issued an order approving an uncontested settlement agreement that resolved the income tax allowance issue and directed GridLiance Heartland to revise its Formula Rate to effectuate certain conditions contained in the settlement agreement. On February 19, 2020 and April 28, GridLiance Heartland submitted its compliance filings in Docket No. ER19-2050 and ER20-1669, respectively, which are pending with the Commission.

On February 21, 2020, GridLiance made a compliance filing in Docket No. ER20-1050 in response to directives from the Commission's January 31, 2020 order in Docket No. EC20-13<sup>9</sup> to extend certain rate credits. This filing is pending with the Commission.

GridLiance Heartland has also submitted compliance filings with respect to Order No. 845 on September 28, 2020 (Docket No. ER20-3012) and Order No. 864 on September 30, 2020 (Docket No. ER20-3034). Both are pending with the Commission.

## **2. Non-MISO Formula Rate**

On June 10, 2019, GridLiance Heartland submitted a proposed open access transmission tariff and formula rate template to govern the terms of transmission service over its facilities that are not under the functional control of MISO (Docket No. ER19-2092). On January 31, 2020, the Commission issued an order accepting the proposed tariff sheets, subject to conditions, refund and establishing hearing and settlement judge procedures.<sup>10</sup> The only item set for hearing was GridLiance Heartland's ROE. On May 28, 2020, GridLiance Heartland filed an Offer of Settlement with respect ROE, establishing GridLiance Heartland's ROE at 9.8%. On September 28, 2020, the Commission issued an order approving the settlement.<sup>11</sup>

As required by the settlement in Docket No. ER19-2488 discussed above, on February 19, 2020 and April 29, GridLiance Heartland submitted its compliance filings in Docket No. ER20-1039, which are pending with the Commission.

GridLiance Heartland has also submitted a compliance filing with respect to Order No. 864 on October 2, 2020 (Docket No. ER20-3009), which is pending with the Commission.

### **B. GridLiance Heartland's Transmission Facilities**

GridLiance Heartland currently owns six 161kV transmission lines ranging from between eight and ten miles in length each, two 161kV substations, and associated auxiliary equipment. These assets are located in the states of Illinois and Kentucky. GridLiance Heartland acquired the facilities from Electric

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<sup>9</sup> *GridLiance Heartland LLC*, 170 FERC ¶ 61,072 (2020).

<sup>10</sup> *GridLiance Heartland LLC*, 170 FERC ¶ 61,074 (2020).

<sup>11</sup> *GridLiance Heartland LLC*, 172 FERC ¶ 61,289 (2020).

The Honorable Kimberly D. Bose

March 15, 2021

Page 4

Energy, Inc. on February 29, 2020, placing four of the six lines under the functional control of MISO on March 1, 2020, with the remaining 2 lines under the functional control of GridLiance Heartland and operated under GridLiance Heartland's OATT. GridLiance Heartland's acquisition of the facilities was approved by the Commission on January 31, 2020 in Docket No. EC20-13.<sup>12</sup>

## II. DOCUMENTS SUBMITTED WITH THIS FILING

This filing consists of the following documents:

- **Attachment A-1:** Populated formula rate template reflecting GridLiance Heartland's RY2021 Annual Projection, effective January 1, 2021 (in native Microsoft Excel format), for facilities under the functional control MISO.
- **Attachment A-2:** Populated formula rate template reflecting GridLiance Heartland's RY2021 Annual Projection, effective January 1, 2021 (in native Microsoft Excel format), for facilities under the functional control of GridLiance Heartland.
- **Attachment B:** List of Accounting Changes Affecting the Formula Rate Inputs.
- **Attachment C:** GridLiance Heartland's Notice of its October 22, 2020 Annual Projection Rate Meeting for RY2021.
- **Attachment D:** GridLiance Heartland's October 22, 2020 Annual Projection Rate Meeting Presentation for RY2021.
- **Attachment E:** Questions of Illinois Municipal Electric Agency regarding GridLiance Heartland's RY2021 Annual Projection, dated November 18, 2020, and GridLiance Heartland's Responses, dated December 9, 2020.

## III. INFORMATIONAL FILING

Section VI of GridLiance Heartland's formula rate protocols provides that, by March 15 of each year, GridLiance Heartland shall submit to the Commission an Informational Filing that must include certain information. The table below identifies the information required by the protocols and the location of that information in this filing.

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<sup>12</sup> *GridLiance Heartland LLC*, 170 FERC ¶ 61,072 (2020).

The Honorable Kimberly D. Bose

March 15, 2021

Page 5

SECTION	REQUIREMENT	LOCATION IN THIS FILING
<b>VI.A.(1)</b>	Include the information that is reasonably necessary to determine:  (i) that input data under the formula rate are properly recorded in any underlying workpapers;	Attachments A, and E
<b>VI.A.(1)</b>	(ii) that GLH has properly applied the formula rate and these procedures;	Attachments A and E
<b>VI.A.(1)</b>	(iii) the accuracy of data and the consistency with the formula rate of the Transmission Revenue Requirement under review	Attachments A and E
<b>VI.A.(1)</b>	(iv) the extent of accounting changes that affect formula rate inputs; and	Attachment B
<b>VI.A.(1)</b>	(v) the reasonableness of projected costs.	Attachments A to E
<b>VI.A.(2)</b>	Include for the applicable Rate Year the following information related to affiliate cost allocation:  (i) a detailed description of the methodologies used to allocate and directly assign costs between GLH and its affiliates by service category or function, including any changes to such cost allocation methodologies from the prior year, and the reasons and justification for those changes; and (ii) the magnitude of such costs that have been allocated or directly assigned between GLH and each affiliate by service category or function; and	Section III.A. of this Informational Filing
<b>VI.A.(3)</b>	Describe any corrections or adjustments made during that period and must describe all aspects of the formula rate or its inputs that are the subject of an ongoing dispute under the Informal or Formal Challenge procedures.	Section III.B. of this Informational Filing and Attachment A

### A. Affiliate Cost Allocation Methodology

GridLiance Heartland described its affiliate cost allocation methodology in its formula rate filing in Docket No. ER18-2342.<sup>13</sup> As described in that filing, GridLiance Heartland allocates affiliate costs by directly assigning direct costs incurred by it or its centralized service company, GridLiance Management, LLC (ManageCo), to GridLiance Heartland and its affiliate Transcos on whose behalf the direct costs were incurred, and allocates indirect costs incurred by ManageCo to GridLiance Heartland and its affiliate Transcos in proportion to their internal and external direct costs.<sup>14</sup> The Commission accepted GridLiance Heartland's proposed cost allocation methodology on January 29, 2019.<sup>15</sup> There has been no change in GridLiance Heartland's cost allocation methodology since GridLiance Heartland submitted its August 29, 2018 compliance filing. GridLiance Heartland publicly discloses the allocation among affiliates in its FERC

<sup>13</sup> *GridLiance Heartland LLC*, Docket No. ER18-2342 (Aug. 29, 2018). Because GridLiance Heartland's formula rates under its OATT are based on a proration of the costs included under Attachment O, the affiliate costs allocation methodology is the same.

<sup>14</sup> *Id.* at 8.

<sup>15</sup> *GridLiance Heartland LLC*, 166 FERC ¶ 61,067 (2019) at P 36.

The Honorable Kimberly D. Bose

March 15, 2021

Page 6

Form No. 60: Annual Report of Centralized Services Companies (Form No. 60). GridLiance Heartland's first Form 60 is due on May 1, 2021 for 2020 costs.

GridLiance Heartland's RY2021 Annual Projection does not include a specific breakout of costs between affiliates. Instead, using the cost allocation methodology described above, GridLiance Heartland projected in its budgeting for RY2021 the direct costs to be incurred by each affiliate, including GridLiance Heartland, and then, according to the cost allocation methodology, allocated projected indirect costs by the ratio of direct costs. GridLiance Heartland will submit a Form No. 60 on or before May 1, 2021, which will reflect the allocation of costs between affiliates for RY2020.

#### **B. Information Exchange**

During the course of its Information Exchange Procedures contained in Sections III of its Protocols, GridLiance Heartland responded to certain informal information requests from the Illinois Municipal Electric Agency (IMEA) with respect to both its Attachment O formula rates under the MISO Tariff and its formula rates under the GridLiance Heartland's OATT. IMEA's questions and GridLiance Heartland's questions are included in Attachment E.

#### **IV. NOTICE**

As required by Section VI of GridLiance Heartland's Protocols and to ensure that all Interested Parties receive proper notice of this Informational Filing, GridLiance Heartland will request that MISO post this filing on its website within five (5) days of this submission. A copy of this filing is being provided to all Interested Parties and GridLiance Heartland's exploder list, and GridLiance Heartland will post this filing and its docket number on GridLiance Heartland's OASIS.

#### **V. CONCLUSION**

Please contact the undersigned if there are any questions regarding this submission.

Respectfully submitted,

**GRIDLIANCE HEARTLAND LLC**

/s/ Kathryn L Patton

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Its Attorneys

Formula Rate - Non-Levelized		Non-MISO Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		Attachment 9A-GLH Page 1 of 5 For the 12 months ended 12/31/2021	
Line No.	(1)	(2)	(3)	(4)	(5)
		Source			Allocated Amount
1	GROSS REVENUE REQUIREMENT	(Page 3, Line 31)			\$ 2,100,875
	REVENUE CREDITS	(Note S)	Total	Allocator	
2	Account No. 454	(Page 4, Line 34)	-	DA 1.00	-
2a	Account No. 456	(Page 4, Line 34a)	-	DA 1.00	-
3	Account No. 456.1	(Page 4, Line 37)	-	DA 1.00	-
4	Revenues from Grandfathered Interzonal Transactions	(Note R)	-	DA 1.00	-
5	Revenues from service provided by the ISO at a discount	MISO invoices	-	DA 1.00	-
6	TOTAL REVENUE CREDITS	(Sum of Lines 2 through 5)			-
6a	Adjustment to make Line 6b equal to zero if there is no revenue requirement associated with Schedules 7, 8 & 9.				-
6b	NET REVENUE REQUIREMENT	(Line 1 minus Lines 6 & 6a) (Note KK)			\$ 2,100,875
6c	Attachment 9A-GLH True-up Adjustment with Interest	Attachment 9C, Page 1, Line 3, Col. (G)	-	DA 1.00	-
7	NET REVENUE REQUIREMENT	(Line 6b plus Line 6c)			\$ 2,100,875
	DIVISOR				
8	Average of 12 coincident system peaks for requirements (RQ) service			(Note A)	-
9	Plus 12 CP of firm bundled sales over one year not in Line 8			(Note B)	-
10	Plus 12 CP of Network Load not in Line 8			(Note C)	-
11	Less 12 CP of firm P-T-P over one year (enter negative)			(Note D)	-
12	Plus Contract Demand of firm P-T-P over one year				-
13	Less Contract Demand from Grandfathered Interzonal Transactions over one year (enter negative)			(Note R)	-
14	Less Contract Demands from service over one year provided by ISO at a discount (enter negative)				-
15	Divisor (sum Lines 8-14)				-
16	Annual Cost (\$/kW/Yr)	(Line 7 / Line 15)	-		
17	Network & P-to-P Rate (\$/kW/Mo)	(Line 16 / 12)	-		
			Peak Rate		Off-Peak Rate
18	Point-To-Point Rate (\$/kW/Wk)	(Line 16 / 52; Line 16 / 52)	-		-
19	Point-To-Point Rate (\$/kW/Day)	(Line 16 / 260; Line 16 / 365)	-	Capped at weekly rate	-
20	Point-To-Point Rate (\$/MWh)	(Line 16 / 4,160; Line 16 / 8,760 times 1,000)	-	Capped at weekly and daily rates	-
21	FERC Annual Charge(\$/MWh)	(Note E)	-	Short Term	- Short Term
22			-	Long Term	- Long Term

Formula Rate - Non-Levelized		Non-MISO Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		For the 12 months ended 12/31/2021	
(1)		(2)	(3)	(4)	(5)
Line No.	RATE BASE: (Notes Y & BB)	Source	Company Total	Allocator (Note JJ)	Transmission (Col 3 times Col 4)
GROSS PLANT IN SERVICE					
1	Production	Attachment 4, Line 14, Col. (b)	-	NA	-
2	Transmission	Attachment 4, Line 14, Col. (c)	28,075,665	TP	0.23
3	Distribution	Attachment 4, Line 14, Col. (d)	-	NA	-
4	General & Intangible	Attachment 4, Line 14, Col. (e)	-	W/S	0.23
5	Common	Attachment 4, Line 14, Col. (f)	-	CE	0.23
6	TOTAL GROSS PLANT	(Sum of Lines 1 through 5)	28,075,665	GP=	0.23
ACCUMULATED DEPRECIATION					
7	Production	Attachment 4, Line 14, Col. (k)	-	NA	-
8	Transmission	Attachment 4, Line 14, Col. (l)	13,207,324	TP	0.23
9	Distribution	Attachment 4, Line 14, Col. (m)	-	NA	-
10	General & Intangible	Attachment 4, Line 14, Col. (n)	-	W/S	0.23
11	Common	Attachment 4, Line 14, Col. (o)	-	CE	0.23
12	TOTAL ACCUM. DEPRECIATION	(Sum of Lines 7 through 11)	13,207,324		
NET PLANT IN SERVICE					
13	Production	(Line 1 - Line 7)	-		-
14	Transmission	(Line 2 - Line 8)	14,868,341		3,489,361
15	Distribution	(Line 3 - Line 9)	-		-
16	General & Intangible	(Line 4 - Line 10)	-		-
17	Common	(Line 5 - Line 11)	-		-
18	TOTAL NET PLANT	(Sum of Lines 13 through 17)	14,868,341	NP=	0.23
18a	CWIP Approved by FERC Order	Attachment 4, Line 14, Col. (g) (Note LL)	-	NA	-
ADJUSTMENTS TO RATE BASE					
19	Reserved		-	NA	zero
20	Reserved		-	NA	zero
21	Reserved		-	NA	zero
22	ADIT	Attachment 8a or 8e, line 8, Col (c)	(0)	NP	0.23
23	Account No. 255 (enter negative)	Attachment 4, Line 28, Col. (h) (Note F)	-	NP	0.23
23a	Unamortized Regulatory Asset	Attachment 4, Line 28, Col. (b) (Note GG)	-	NA	-
23b	Unamortized Abandoned Plant	Attachment 4, Line 28, Col. (c) (Notes X & FF)	-	NA	-
23c	Unfunded Reserves (enter negative)	Attachment 4, Line 31, Col. (h)	-	NA	-
24	TOTAL ADJUSTMENTS	(Sum of Lines 19 through 23c)	(0)		(0)
25	LAND HELD FOR FUTURE USE	Attachment 4, Line 14, Col. (h) (Note G)	-	TP	0.23
WORKING CAPITAL					
26	CWC	(Note H)			
27	Materials & Supplies	1/8*(Page 3, Line 8 minus Page 3, Line 7b)	861,822		202,256
28	Prepayments (Account 165)	Attachment 4, Line 14, Col. (i) (Note G)	328,467	TP	0.23
29	TOTAL WORKING CAPITAL	Attachment 4, Line 14, Col. (j)	607,450	GP	0.23
		(Sum of Lines 26 through 28)	1,797,740		
30	RATE BASE	(Sum of Lines 18, 18a, 24, 25 & 29)	16,666,081		



					Attachment 9A-GLH
					Page 3 of 5
Formula Rate - Non-Levelized					For the 12 months ended 12/31/2021
Non-MISO Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC					
Line No.	(1)	(2)	(3)	(4)	(5)
	O&M	Source	Company Total	Allocator (Note JJ)	Transmission (Col 3 times Col 4)
1	Transmission	(Note CC)			
1a	Less Ancillary Service Expenses included in	Attachment 5, Line 13, Col. (a)	4,538,738	TP	0.23
1b	Less Account 566	Attachment 5, Line 13, Col. (I)	1,784,502	TP	0.23
2	Less Account 565	Attachment 5, Line 13, Col. (b)	-	TP	0.23
3	A&G	Attachment 5, Line 13, Col. (c)	-	TP	0.23
4	Less FERC Annual Fees	Attachment 5, Line 13, Col. (d)	4,140,338	W/S	0.23
5	Less EPRI & Reg. Comm. Exp. & Non-safety Ad.	Attachment 5, Line 13, Col. (e)	-	W/S	0.23
5a	Plus Transmission Related Reg. Comm. Exp.	(Note I) Attachment 5, Line 13, Col. (f)	-	W/S	0.23
5b	Less PBOP Expense in Year	(Note I) Attachment 5, Line 13, Col. (g)	-	TP	0.23
5c	Plus PBOP Expense Allowed Amount	Attachment 7, Line 6	-	W/S	0.23
6	Common	Attachment 7, Line 8	-	W/S	0.23
7	Transmission Lease Payments	356.1	-	CE	0.23
7a	Account 566	Attachment 5, Line 13, Col (h)	-	NA	-
7b	Amortization of Regulatory Asset	(Note GG) Attachment 5, Line 13, Col. (i)	-	NA	-
7c	Miscellaneous Transmission Expense (less Amortization)	Attachment 5, Line 13, Col. (j)	-	TP	0.23
7d	Total Account 566	(Line 7b plus Line 7c) Ties to 321.97.b (Sum of Lines 1, 3, 5a, 5c, 6, 7, & 7d less Lines 1a, 1b, 2, 4, 5, & 5b)	-		-
8	TOTAL O&M		6,894,575		1,618,046
DEPRECIATION EXPENSE					
9	Transmission	(Note BB)			
10	General & Intangible	Attachment 5, Line 13, Col. (k)	562,296	TP	0.23
11	Common	Attachment 5, Line 26, Col. (a)	-	W/S	0.23
11a	Amortization of Abandoned Plant	Attachment 5, Line 26, Col. (I)	-	CE	0.23
12	TOTAL DEPRECIATION	(Notes X & FF) Attachment 5, Line 26, Col. (b)	-	NA	-
TAXES OTHER THAN INCOME TAXES					131,962
LABOR RELATED					
13	Payroll	(Sum of Lines 9 through 11a)	562,296		
14	Highway and vehicle	(Note J)			
15	PLANT RELATED				
16	Property	Attachment 5, Line 26, Col. (c)	-	W/S	0.23
17	Gross Receipts	Attachment 5, Line 26, Col. (d)	-	W/S	0.23
18	Other	Attachment 5, Line 26, Col. (e)	184,553	GP	0.23
19	Payments in lieu of taxes	Attachment 5, Line 26, Col. (f)	-	NA	zero
20	TOTAL OTHER TAXES	Attachment 5, Line 26, Col. (g)	-	GP	0.23
INCOME TAXES					43,312
21	T-SIT * (1-FIT) + FIT - (p*FIT)	(Sum of Lines 13 through 19)	184,553		
22	CTT=(T/(1-T) * (1-(WCLTD/R))) = FIT, SIT & p	(Note K)			
23	1 / (1 - T) = (from Line 21)	(Note K) (Attachment 10, Col. 12, Line 12)	0.1546		
24	Amortized Investment Tax Credit	WCLTD = Page 4, Line 27; R = Page 4, Line 30	0.1586		
24a	Excess Deferred Income Taxes	(Note K)			
24b	Tax Effect of Permanent Differences				
25	Income Tax Calculation				
26	ITC adjustment	(Line 22) times (Page 4, Line 30) times (Page 2, Line 3)	179,180		42,051
26a	Excess Deferred Income Tax Adjustment	(Line 23 times Line 24)	-	NP	0.23
26b	Permanent Differences Tax Adjustment	(Line 23 times Line 24a)	-	NP	0.23
27	Total Income Taxes	(Line 23 times Line 24b)	1,371	NP	0.23
RETURN					42,372
28	Rate Base times Return	(Sum of Lines 25 through 26b)	180,550		
29	REV. REQUIREMENT	(Page 2, Line 30 times Page 4, Line 30, Col. (5))	1,129,960	NA	265,184
30	LESS ATTACHMENT GG ADJUSTMENT [Attachment GG-GLH, Page 2, Line 17, Column 14] (Note V)	(Page 2, Line 30 times Page 4, Line 30, Col. (5))	1,129,960	NA	265,184
30a	LESS ATTACHMENT MM ADJUSTMENT [Attachment MM-GLH, Page 2, Line 17, Column 14] (Note Z)	(Sum of Lines 8, 12, 20, 27 & 28)	8,951,934		2,100,875
30b	PLUS Incentives on Attachment 9B for projects other than i Attachment 9B, line 18 Attachment MM-GLH and Attachment GG-GLH.				
31	REV. REQUIREMENT TO BE COLLECTED UNDER THE OATT				
	(Line 29 - Line 30 - Line 30a + Line 30b)				

Formula Rate - Non-Levelized		Non-MISO Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		Attachment 9A-GILH Page 4 of 5 For the 12 months ended 12/31/2021	
(1)	(2)	(3)	(4)	(5)	
SUPPORTING CALCULATIONS AND NOTES					
Line No.	TRANSMISSION PLANT INCLUDED IN ISO RATES				
1	Total Transmission plant	(Page 2, Line 2, Column 3)		28,075,665	
2	Less Transmission plant included in ISO rates	(Note L)		21,486,757	
3	Less Transmission plant included in OATT Ancillary Serv	(Note M)		-	
4	Transmission plant not included in ISO rates	(Line 1 minus Lines 2 & Line 3)		6,588,908	
5	Percentage of Transmission plant not included in ISO Rates	(Line 4 divided by Line 1)	TP=	23.5%	
6 - 11	WAGES & SALARY ALLOCATOR (W&S)				
	Form 1 Reference	\$	TP	Allocation	
12	Production	354.20.b	-	-	
13	Transmission (Note MM)	354.21.b	1	0.23	
14	Distribution	354.23.b	-	-	GP
15	Other	354.24,25,26.b	-	-	(\$ / Allocation)
16	Total (sum lines 12-15) [If there are no labor dollars, input \$1 on line 13 which is then multiplied by the TP alloc]	1		0	= 0.23 = WS
	COMMON PLANT ALLOCATOR (CE) (Notes N and DD)				
		\$	% Electric	W&S Allocator	
17	Electric	200.3.c	30,658,757	(Line 16)	CE
18	Gas	200.3.d	-	1.00000 *	0.23468 = 0.23468
19	Water	200.3.e	-		
20	Total	(Sum of Lines 17 through 19)	30,658,757		
21 - 26	RETURN (R)				
		\$	%	Cost	\$
27	Long Term Debt	(Note Y, EE) Attachment 5, Line 34	0.4 40.0%	2.25%	0.90% =WCLTD
28	Preferred Stock	(Note Y, EE) Attachment 5, Line 35	- 0.0%	0.00%	0.00%
29	Common Stock	(Notes O, Y and EE) Attachment 5, Line 36	0.6 60.0%	9.80%	5.88%
30	Total	(Sum of Lines 27 through 29)	1.0		6.78% =R
	REVENUE CREDITS				
	ACCOUNT 447 (SALES FOR RESALE)	310 -311		Load	
31	a. Bundled Non-RQ Sales for Resale	311.x.h		-	
32	b. Bundled Sales for Resale included in Divisor on Page 1			-	
33	Total of (a)-(b)	(Note P)		-	
34	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY) (Note Q)				
34a	ACCOUNT 456 (OTHER ELECTRIC REVENUES) (Note NN)			-	
	ACCOUNT 456.1 (REVENUES FROM TRANSMISSION 330.x.n (Note T)				
35	a. Transmission charges for all transmission transactions			-	
36	b. Transmission charges for all transmission transactions included in Divisor on Page 1				
36a	c. Transmission charges from Schedules associated with At (Note W)				
36b	d. Transmission charges from Schedules associated with At (Note AA)				
37	Total of (a)-(b)-(c)-(d)			-	

Formula Rate - Non-Levelized		Non-MISO Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC	Attachment 9A-GLH Page 5 of 5 For the 12 months ended 12/31/2021
General Note: References to pages in this formulary rate are indicated as: (page#, line#, col.#) References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)			
Note			
Letter			
A	Peak as would be reported on Page 401, Column d of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Non-MISO assets are transmission assets not under MISO functional control. Only Non-MISO related items i		
B	Labeled LF, LU, IF, IU on Pages 310-311 of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Only Non-MISO related items are included.		
C	Labeled LF on Page 328 of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Only Non-MISO related items are included.		
D	Labeled LF on Page 328 of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Only Non-MISO related items are included.		
E	The FERC's annual charges for the year assessed the Transmission Owner for service under this formula rate. Only Non-MISO related items are included.		
F	The balances in Accounts 190, 281, 282 and 283, as adjusted by any amounts in contra accounts identified as regulatory assets or liabilities related to FASB 106 or 109. Balance of Account 255 is reduced by prior flow through and excluded if the utility chose to utilize amortization of tax credits against taxable income. Account 281 is not allocated.		
G	Identified in Form 1 as being only transmission related.		
H	Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission at Page 3, Line 8, Column 5 less Page 3, Line 7a. Prepayments are the electric related prepayments booked to Account No. 165 and reported on Page 111 Line 57 in the Form 1.		
I	Line 5 - EPRI Annual Membership Dues listed in Form 1 at 353.f, all Regulatory Commission Expenses itemized at 351.h, and non-safety related advertising included in Account 930.1. Line 5a - Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting itemized at 351.h.		
J	Includes only FICA, unemployment, highway, property, gross receipts, and other assessments charged in the current year. Taxes related to income are excluded. Gross receipts taxes are not included in transmission revenue requirement in the Rate Formula Template, since they are recovered elsewhere.		
K	The currently effective income tax rate, where FIT is the weighted average Federal income tax rate; SIT is the weighted average State income tax rate, and p = "the percentage of federal income tax deductible for state income taxes". If the utility is taxed in more than one state it must attach a work paper showing the name of each state and how the blended or composite SIT was developed. Furthermore, a utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax		
	Inputs Required:	FIT = SIT= p =	See Attachment 10 (Federal Income Tax Rate) See Attachment 10 (State Income Tax Rate or Composite SIT) See Attachment 10 (percent of federal income tax deductible for state purposes)
L	Includes transmission plant under MISO functional control and included in Attachment O-GLH		
M	Includes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to be included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.		
N	Enter dollar amounts		
O	ROE will be supported in the original filing and no change in ROE may be made absent a filing with FERC. A 50 basis point adder for RTO participation may be added to the ROE up to the upper end of the zone of		
P	Page 4, Line 33 must equal zero since all short-term power sales must be unbundled and the transmission component reflected in Account No. 456.1.		
Q	Includes income related only to transmission facilities, such as pole attachments, rentals and special use, less any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission		
R	Grandfathered agreements whose rates have been changed to eliminate or mitigate pancaking - the revenues are included in Line 4 Page 1 and the loads are included in Line 13, Page 1. Grandfathered agreements whose rates have not been changed to eliminate or mitigate pancaking - the revenues are not included in Line 4, Page 1 nor are the loads included in Line 13, Page 1. This line will include any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.		
S	The revenues credited on Page 1, Lines 2-6 shall include only the amounts received directly (in the case of grandfathered agreements) or from the ISO (for service under this tariff) reflecting the Transmission Owner's integrated transmission facilities. They do not include revenues associated with FERC annual charges, gross receipts taxes, facilities not included in this template (e.g., direct assignment facilities and GSUs) which are not recovered under this Rate Formula Template. These lines will include any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.		
T	Account 456.1 entry shall be the annual total of the quarterly values reported at Form 1, Page 330.x.n., less any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission		
U	Includes system control, dispatch and scheduling costs in FERC accounts 561.1 through 561.4 and which are recovered in Schedule 1. Also excludes Account 561.4 and Account 561.8. MISO-related amounts are excluded from this attachm		
V	Pursuant to Attachment GG of the MISO Tariff, removes dollar amount of the revenue requirements calculated pursuant to Attachment GG. MISO-related amounts are excluded from this attachment.		
W	Removes from revenue credits revenue that are distributed pursuant to Schedules associated with Attachment GG of the MISO Tariff, since the Transmission Owner's Attachment O revenue requirements have already been reduced by the Attachment GG revenue requirements. MISO-related amounts are excluded from this attachment.		
X	Page 2 Line 23b includes any unamortized balances related to the recovery of abandoned plant costs approved by FERC under a separate docket. Page 3, Line 11a includes the Amortization expense of abandonment costs. These are shown in the workpapers required pursuant to the Annual Rate Calculation and True-up Procedures.		
Y	Calculate using 13 month average balance, reconciling to FERC Form No. 1 by Page, Line, and Column as shown in Attachment 4 for inputs on page 2 of 5 above, except ADIT, page 2, lines 19-22, which is on Attachment 8a or 8e and shown on Attachment 5. Calculate using 13 month average balance, reconciling to FERC Form No. 1 by Page, Line, and Column as shown in Attachment 5 for inputs on lines 27, 28 and 29 of page 4 of 5 above. For the first Rate Year, as defined in the Protocols, GLH will use thirteen months of balances in calculating the 13- month average for the determination of the projected net revenue requirement		
Z	Pursuant to Attachment MM of the MISO Tariff, removes dollar amount of the revenue requirements calculated pursuant to Attachment MM. MISO-related amounts are excluded from this attachment.		
AA	Removes from revenue credits revenues that are distributed pursuant to Schedules associated with Attachment MM of the MISO Tariff, since the Transmission Owner's Attachment O revenue requirements have already been reduced by the Attachment MM revenue requirements. MISO-related amounts are excluded from this attachment.		
BB	Plant in Service, Accumulated Depreciation, and Depreciation Expense amounts exclude Asset Retirement Obligation amounts unless authorized by FERC.		
CC	Schedule 10-FERC charges should not be included in O&M recovered under Attachment O.		
DD	Calculate using a simple average of beginning of year and end of year balances reconciling to FERC Form No. 1 by Page, Line and Column as shown in Column 2.		
EE	Prior to obtaining long term debt, the cost of debt will be the average 3-month LIBOR for the year plus 2.0%. LIBOR refers to the London Inter Bank Offer Rate from the Federal Reserve Bank of St. Louis's <a href="https://fred.stlouisfed.org/">https://fred.stlouisfed.org/</a> . The capital structure and cost of debt will be the weighted for the year if the long term debt is obtained midyear. However, if prior to obtaining long term debt, the company has short term debt, the cost of debt will be calculated pursuant to Attachment 5, note D. The capital structure will be 60% equity and 40% debt until any asset is placed in service, then it will be based on the actual capital structure, provided that during any period where the equity component of the actual capital structure is greater than 60%, company will reduce the equity component to a level not to exceed 60%. If the capital structure is reduced to 60% equity, the reduced ATRR as a result of capping the equity portion of GridLiance's capital structure at 60%, and the difference between these two values shall be provided by the company		
FF	Unamortized Abandoned Plant and Amortization of Abandoned Plant will be zero until the Commission accepts or approves recovery of the cost of abandoned plant. Utility must submit a Section 205 filing to recover the cost of abandoned		
GG	Recovery of regulatory asset permitted only for pre-commercial and formation expenses and are subject to FERC approval before any Regulatory Asset amounts are included in rates. Recovery of any other regulatory assets requires authorization from the Commission. A carrying charge equal to the AFUDC rate will be applied to the regulatory asset prior to the rate year when costs are first recovered.		
HH	Reserved		
II	The Tax Effect of Permanent Differences captures the differences in the income taxes due under the Federal and State calculations and the income taxes calculated in Attachment O-GLH that are not the result of a		
JJ	DA in the allocator Column in this attachment means that the cost is directly assigned to Non-MISO consistent with the attached workpapers.		
KK	Round to zero if amount shown is not zero and there is no revenue requirement to recover under Schedules 7, 8, and 9 of the GLH OATT.		
LL	AFUDC ceases when CWIP is recovered in rate base. No CWIP will be included in rate base on line 18a absent FERC authorization.		
MM	It is possible GLH will not have any salaries and wages to report in the FERC Form No. 1 (that is page 4, lines 12-15 are zero), even if GLH has existing transmission assets in service. If and when this occurs page		
NN	Includes revenue from electric operations properly credited to Non-MISO customers and not includible in other accounts, such as compensation for minor or incidental services provided for others. GLH commits to provide a workpaper itemizing each revenue source for interested parties to determine which revenues should be reflected herein.		
End			

Attachment 9B (Note J)  
Non-MISO Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

Page 1 of 3

To be completed in conjunction with Attachment 9A-GLH.  
(inputs from Attachment 9A-GLH are rounded to whole dollars)

Line No.	(1)	(2) Source Page, Line, Col.	(3) Transmission	(4) Allocator
1	Gross Transmission Plant - Total	Attach 9A, p 2, line 2 col 5 (Note A)	6,588,908	
1a	Transmission Accumulated Depreciation	Attach 9A, p 2, line 8 col 5	3,099,547	
1b	CWIP, Regulatory Asset, Abandoned Plant	Attach 9A, p 2, lines 18a, 23a & 23b (Note B)	-	
2	Net Transmission Plant - Total	Line 1 minus Line 1a plus Line 1b	3,489,361	
	O&M TRANSMISSION EXPENSE			
3	Total O&M Allocated to Transmission	Attach 9A, p 3, line 8 col 5	1,618,046	
3a	Transmission O&M	Attach 9A, p 3, line 1 col 5	1,065,169	
	Less: Ancillary Service expenses included			
3b	in above	Attach 9A, p 3, line 1a col 5	418,794	
3c	Less: Account 565 included in above, if any	Attach 9A, p 3, line 2 col 5, if any	-	
3d	Less: Account 566 Amort of Reg Asset included in 3a, if any	Attach 9A, p 3, line 7b col 5, if any	-	
3e	Adjusted Transmission O&M	Line 3a minus Lines 3b thru 3d	646,375	
4	<b>Annual Allocation Factor for Transmission O&amp;M</b>	(Line 3e divided by line 1, col 3)	<b>0.10</b>	<b>0.10</b>
	OTHER O&M EXPENSE			
4a	Other O&M Allocated to Transmission	Line 3 minus Line 3e	971,670.88	
4b	Annual Allocation Factor for Other O&M	Line 4a divided by Line 1, col 3	0.15	0.15
	GENERAL, INTANGIBLE AND COMMON (G, I & C) DEPRECIATION EXPENSE			
5	Total G, I & C Depreciation Expense	Attach 9A, p 3, lines 10 & 11, col 5 (Note G)	-	
6	Annual Allocation Factor for G, I & C Depreciation Expense	(line 5 divided by line 1 col 3)	-	-
	TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attach 9A, p 3, line 20 col 5	43,311.55	
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1 col 3)	0.01	0.01
9	<b>Annual Allocation Factor for Other Expense</b>	<b>Sum of line 4b, 6, and 8</b>	<b>0.15</b>	<b>0.15</b>
	INCOME TAXES			
10	Total Income Taxes	Attach 9A, p 3, line 27 col 5	42,372.30	
11	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2 col 3)	0.01	0.01
	RETURN			
12	Return on Rate Base	Attach 9A, p 3, line 28 col 5	265,183.53	
13	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2 col 3)	0.08	0.08
14	<b>Annual Allocation Factor for Return</b>	<b>Sum of line 11 and 13 col 4</b>		<b>0.09</b>

Attachment 9B (Note J)  
Non-MISO Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		Project									
		MTEP # or Other		Project	Accumulated	Transmission O&M	Annual Allocation	Annual Allocation	Annual Allocation		
Line No.	Project Name	Designation	Project Gross Plant	Depreciation/Amor	tization	Annual Allocation	for Transmission	Factor for Other	for Other Expense	Annual Expense	Project Net Plant
						O&M Expense	O&M Expense	Expense	Expense	Charge	Plan
15	(Note C)					Page 1 line 4	Col. 3 * Col. 5	Page 1 line 9	Col. 3 * Col. 7	Col. 6 + Col. 8)	(Note D)
15a	EEI Non-MISO Assets	-	6,588,908	3,099,547		0.10	646,375	0.15	1,014,982	1,661,358	3,489,361
15b		-	-	-		0.10	-	0.15	-	-	-
15c		-	-	-		0.10	-	0.15	-	-	-
15d		-	-	-		0.10	-	0.15	-	-	-
15e		-	-	-		0.10	-	0.15	-	-	-
15f		-	-	-		0.10	-	0.15	-	-	-
15g		-	-	-		0.10	-	0.15	-	-	-
15h		-	-	-		0.10	-	0.15	-	-	-
15i		-	-	-		0.10	-	0.15	-	-	-
15j		-	-	-		0.10	-	0.15	-	-	-
15k		-	-	-		0.10	-	0.15	-	-	-
15l		-	-	-		0.10	-	0.15	-	-	-
15m		-	-	-		0.10	-	0.15	-	-	-
15n		-	-	-		0.10	-	0.15	-	-	-
15o		-	-	-		0.10	-	0.15	-	-	-
		-	-	-		0.10	-	0.15	-	-	-
		-	-	-		0.10	-	0.15	-	-	-
16	Annual Totals		6,588,908	3,099,547			646,375		1,014,982	1,661,358	3,489,361

17 Rev. Req. Adj For Attachment 9A  
18 Incentives from Projects other than those in Attachment GG- GLH and Attachment MM\_GLH. This includes only amounts related to Non-MISO assets

- Note Letter
- A Gross Transmission Plant that is included on page 2 line 2 of Attachment 9A-GLH (see line 1 col (3)).
  - B Inclusive of any CWIP, unamortized abandoned plant and unamortized project-related regulatory asset included in rate base when authorized by FERC order. Excludes start-up regulatory asset (see line 1b, col. (3)).
  - C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1. This value includes subsequent capital investments required to maintain the facilities to their original capabilities. Gross plant does not include any CWIP, unamortized abandoned plant or any regulatory asset (see line 15, col. (3)).
  - D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation in col (4). Net Plant includes any CWIP in rate base, any project related regulatory asset and any Unamortized Abandoned Plant approved by the Commission (see line 15, col. (10)). Net plant does not include start-up regulatory asset.
  - E Project Depreciation Expense is the actual value booked in Attachment 9A-GLH, Page 3, line 9 that is associated with the specified project. Project Depreciation Expense includes the amortization of Abandoned Plant. However, if FERC grants accelerated depreciation for a project the depreciation rate authorized by FERC will be used instead of the rates shown on Attachment 6 for all other projects. Line 15, Col. (13). Does not includes project related regulatory assets.
  - F Project True-Up Adjustment is calculated on the Attachment GG - GLH and Attachment MM - GLH True-Up Template (see col. K). For Non-MISO projects other than Attachment GG or MM, the Project True-up Adjustment is calculated on Attachment 9C. MISO-related amounts will be excluded from this attachment.
  - G The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in Line 15, col. 13.
  - H Any discounts related to Non-MISO specific project(s) will be included in this column. The amount in Column 17 above equals the amount by which the annual revenue requirement is reduced from the ceiling rate (see line 15 col. (17)).
  - I Requires approval by FERC of incentive return applicable to the specified project(s) (see line 15, col. (15)).
  - J This Attachment 9B is a reconciliation of the total calculated GridLiance Heartland Non-MISO ATRR and each of the related projects/assets.

Attachment 9B (Note J)  
Non-MISO Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

[illegible]

1	Year		Annual True-Up Calculation				
	A	B	C	D	E	F	G
	MTEP Project Number	Project Name	Adjusted Net Revenue Requirement <sup>1</sup>	Revenue Received <sup>2</sup>	Net Under/(Over) Collection (C-D)	Interest Income (Expense)	Total True-Up Adjustment (E + F)
2			-	-	-	-	-
2a			-	-	-	-	-
2b			-	-	-	-	-
2c			-	-	-	-	-
2d			-	-	-	-	-
3	Total		-	-	-	-	-

1) From Attachment 9A-GLH and Attachment 9B  
2) The 'revenue received' is the total amount of revenue received by GLH in the True-Up Year from Attachment 9A, Line 36, page 4 of 5 of Attachment 9A-GLH. This includes only Non-MISO amounts.  
3) The Attachment 9C-Non-MISO Project True-Up is the actual True-Up calculation for Non-MISO amounts.

For each Non-MISO project or Attachment 9A-GLH, the utility will populate the formula rate with the inputs for the True-Up Year. The revenue requirements, based on actual operating results for the True-Up Year, associated with the projects and Attachment 9A-GLH and Attachment 9B will then be entered in Col. (C) above. Column (D) contains the actual revenues received associated with Attachment 9A-GLH not paid by MISO to the utility during the True-Up Year. Col. (E) is the Net Under/(Over) Collection where Col. (D) is subtracted from Col. (C). Column (F), line 2 is the interest calculated in accordance with Attachment O-GLH Annual True-Up, Information Exchange and Challenge Procedures. Column (F), lines 2x contain the interest amounts calculated in column (I) of the Annual Attachment GG True-Up Calculation and the Annual Attachment MM True-Up Calculation. Col. (G) is the sum of the Net Under/(Over) Collection in Col. (E) and the interest in Col. (F). This includes only Non-MISO amounts.

FERC Refund Interest Rate

(a)		(b)	(c)	(d)
Interest Rate:		Quarter	Year	Quarterly Interest Rate under Section 35.19(a)
4		1st Qtr.	-	-
5		2nd Qtr	-	-
6		3rd Qtr	-	-
7		4th Qtr	-	-
8		1st Qtr	-	-
9		2nd Qtr	-	-
10		3rd Qtr	-	-
11		Sum lines 5-11	-	-
12				
13	Avg. Monthly FERC Rate	Line 12 divided by 7	-	

Formula Rate - Non-Levelized

Rate Formula Template  
Utilizing FERC Form 1 Data  
GridLiance Heartland LLC

For the 12 months ended 12/31/2021

Line No.	(1)	(2)	(3)	(4)	(5)
		Source			Allocated Amount
1	GROSS REVENUE REQUIREMENT	(Page 3, Line 31)			\$ 4,770,943
	REVENUE CREDITS	(Note S)	Total	Allocator	
2	Account No. 454	(Page 4, Line 34)	-	DA 1.00	-
2a	Account No. 456	(Page 4, Line 34a)	-	DA 1.00	-
3	Account No. 456.1	(Page 4, Line 37)	-	DA 1.00	-
4	Revenues from Grandfathered Interzonal Transactions	(Note R)	-	DA 1.00	-
5	Revenues from service provided by the ISO at a discount	MISO invoices	-	DA 1.00	-
6	TOTAL REVENUE CREDITS	(Sum of Lines 2 through 5)			-
6a	Adjustment to make Line 6b equal to zero if there is no revenue requirement associated with Schedules 7, 8 & 9				-
6b	NET REVENUE REQUIREMENT	(Line 1 minus Lines 6 & 6a) (Note KK)			\$ 4,770,943
6c	Attachment O-GLH True-up Adjustment with Interest	Attachment 3, Page 1, Line 3, Col. (G)	-	DA 1.00	-
7	NET REVENUE REQUIREMENT	(Line 6b plus Line 6c)			\$ 4,770,943
	DIVISOR				
8	Average of 12 coincident system peaks for requirements (RQ) service			(Note A)	-
9	Plus 12 CP of firm bundled sales over one year not in Line 8			(Note B)	-
10	Plus 12 CP of Network Load not in Line 8			(Note C)	-
11	Less 12 CP of firm P-T-P over one year (enter negative)			(Note D)	-
12	Plus Contract Demand of firm P-T-P over one year				-
13	Less Contract Demand from Grandfathered Interzonal Transactions over one year (enter negative)			(Note R)	-
14	Less Contract Demands from service over one year provided by ISO at a discount (enter negative)				-
15	Divisor (sum Lines 8-14)				-
16	Annual Cost (\$/kW/Yr)	(Line 7 / Line 15)	-		
17	Network & P-to-P Rate (\$/kW/Mo)	(Line 16 / 12)	-		
			Peak Rate		Off-Peak Rate
18	Point-To-Point Rate (\$/kW/Wk)	(Line 16 / 52; Line 16 / 52)	-		-
19	Point-To-Point Rate (\$/kW/Day)	(Line 16 / 260; Line 16 / 365)	-	Capped at weekly rate	-
20	Point-To-Point Rate (\$/MWh)	(Line 16 / 4,160; Line 16 / 8,760 times 1,000)	-	Capped at weekly and daily rates	-
21	FERC Annual Charge(\$/MWh)	(Note E)	-	Short Term	- Short Term
22			-	Long Term	- Long Term



Formula Rate - Non-Levelized		Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		For the 12 months ended 12/31/2021		
(1)		(2)	(3)	(4)	(5)	
Line No.	Source	Company Total	Allocator (Note JJ)	Transmission (Col 3 times Col 4)		
RATE BASE: (Notes Y & BB)						
GROSS PLANT IN SERVICE						
1	Production	Attachment 4, Line 14, Col. (b)	-	NA	-	
2	Transmission	Attachment 4, Line 14, Col. (c)	28,075,665	TP	1.00	28,075,665
3	Distribution	Attachment 4, Line 14, Col. (d)	-	NA	-	
4	General & Intangible	Attachment 4, Line 14, Col. (e)	-	W/S	-	
5	Common	Attachment 4, Line 14, Col. (f)	-	CE	-	
6	TOTAL GROSS PLANT	(Sum of Lines 1 through 5)	28,075,665	GP=	1.00	28,075,665
ACCUMULATED DEPRECIATION						
7	Production	Attachment 4, Line 14, Col. (k)	-	NA	-	
8	Transmission	Attachment 4, Line 14, Col. (l)	13,207,324	TP	1.00	13,207,324
9	Distribution	Attachment 4, Line 14, Col. (m)	-	NA	-	
10	General & Intangible	Attachment 4, Line 14, Col. (n)	-	W/S	-	
11	Common	Attachment 4, Line 14, Col. (o)	-	CE	-	
12	TOTAL ACCUM. DEPRECIATION	(Sum of Lines 7 through 11)	13,207,324			13,207,324
NET PLANT IN SERVICE						
13	Production	(Line 1 - Line 7)	-			-
14	Transmission	(Line 2 - Line 8)	14,868,341			14,868,341
15	Distribution	(Line 3 - Line 9)	-			-
16	General & Intangible	(Line 4 - Line 10)	-			-
17	Common	(Line 5 - Line 11)	-			-
18	TOTAL NET PLANT	(Sum of Lines 13 through 17)	14,868,341	NP=	1.00	14,868,341
18a	CWIP Approved by FERC Order	Attachment 4, Line 14, Col. (g) (Note LL)	-	DA	1.00	-
ADJUSTMENTS TO RATE BASE						
19	Reserved		-	NA	zero	-
20	Reserved		-	NA	zero	-
21	Reserved		-	NA	zero	-
22	ADIT	Attachment 8a or 8e, line 8, Col (e)	(0)	NP	1.00	(0)
23	Account No. 255 (enter negative)	Attachment 4, Line 28, Col. (h) (Note F)	-	NP	1.00	-
23a	Unamortized Regulatory Asset	Attachment 4, Line 28, Col. (b) (Note GG)	-	DA	1.00	-
23b	Unamortized Abandoned Plant	Attachment 4, Line 28, Col. (c) (Notes X & FF)	-	DA	1.00	-
23c	Unfunded Reserves (enter negative)	Attachment 4, Line 31, Col. (h)	-	DA	1.00	-
24	TOTAL ADJUSTMENTS	(Sum of Lines 19 through 23c)	(0)			(0)
25	LAND HELD FOR FUTURE USE	Attachment 4, Line 14, Col. (h) (Note G)	-	TP	1.00	-
WORKING CAPITAL						
26	CWC	(Note H) 1/8*(Page 3, Line 8 minus Page 3, Line 7b)	861,822			344,280
27	Materials & Supplies	Attachment 4, Line 14, Col. (i) (Note G)	328,467	TP	1.00	328,467
28	Prepayments (Account 165)	Attachment 4, Line 14, Col. (j)	607,450	GP	1.00	607,450
29	TOTAL WORKING CAPITAL	(Sum of Lines 26 through 28)	1,797,740			1,280,197
30	RATE BASE	(Sum of Lines 18, 18a, 24, 25 & 29)	16,666,081			16,148,538

Formula Rate - Non-Levelized

Rate Formula Template  
Utilizing FERC Form 1 Data  
GridLiance Heartland LLC

Line No.	(1)	(2)	(3)	(4)	(5)
		Source	Company Total	Allocator (Note JJ)	Transmission (Col 3 times Col 4)
1	O&M	(Note CC)			
1	Transmission	Attachment 5, Line 13, Col. (a)	4,538,738	TP	4,538,738
1a	Less Ancillary Service Expenses included in Transmission O&M Accounts (Note U)	Attachment 5, Line 13, Col. (l)	1,784,502	TP	1,784,502
1b	Less Account 566	Attachment 5, Line 13, Col. (b)	-	TP	-
2	Less Account 565	Attachment 5, Line 13, Col. (c)	-	TP	-
3	A&G	Attachment 5, Line 13, Col. (d)	4,140,338	W/S	-
4	Less FERC Annual Fees	Attachment 5, Line 13, Col. (e)	-	W/S	-
5	Less EPRI & Reg. Comm. Exp. & Non-safety Ad.	(Note I) Attachment 5, Line 13, Col. (f)	-	W/S	-
5a	Plus Transmission Related Reg. Comm. Exp.	(Note I) Attachment 5, Line 13, Col. (g)	-	TP	-
5b	Less PBOP Expense in Year	Attachment 7, Line 6	-	W/S	-
5c	Plus PBOP Expense Allowed Amount	Attachment 7, Line 8	-	W/S	-
6	Common	356.1	-	CE	-
7	Transmission Lease Payments	Attachment 5, Line 13, Col. (h)	-	DA	-
7a	Account 566				
7b	Amortization of Regulatory Asset	(Note GG) Attachment 5, Line 13, Col. (i)	-	DA	-
7c	Miscellaneous Transmission Expense (less Amortization of Regulatory Asset)	Attachment 5, Line 13, Col. (j)	-	TP	-
7d	Total Account 566	(Line 7b plus Line 7c) Ties to 321.97.b	-		-
8	TOTAL O&M	(Sum of Lines 1, 3, 5a, 5c, 6, 7, & 7d less Lines 1a, 1b, 2, 4, 5, & 5b)	6,894,575		2,754,237
9	DEPRECIATION EXPENSE	(Note BB)			
9	Transmission	Attachment 5, Line 13, Col. (k)	562,296	TP	562,296
10	General & Intangible	Attachment 5, Line 26, Col. (a)	-	W/S	-
11	Common	Attachment 5, Line 26, Col. (l)	-	CE	-
11a	Amortization of Abandoned Plant	(Notes X & FF) Attachment 5, Line 26, Col. (b)	-	DA	-
12	TOTAL DEPRECIATION	(Sum of Lines 9 through 11a)	562,296		562,296
	TAXES OTHER THAN INCOME TAXES	(Note J)			
	LABOR RELATED				
13	Payroll	Attachment 5, Line 26, Col. (c)	-	W/S	-
14	Highway and vehicle	Attachment 5, Line 26, Col. (d)	-	W/S	-
15	PLANT RELATED				
16	Property	Attachment 5, Line 26, Col. (e)	184,553	GP	184,553
17	Gross Receipts	Attachment 5, Line 26, Col. (f)	-	NA	-
18	Other	Attachment 5, Line 26, Col. (g)	-	GP	-
19	Payments in lieu of taxes	Attachment 5, Line 26, Col. (h)	-	GP	-
20	TOTAL OTHER TAXES	(Sum of Lines 13 through 19)	184,553		184,553
	INCOME TAXES	(Note K)			
21	T=SIT * (1-FIT) + FIT - (p*FIT)	(Note K) (Attachment 10, Col. 12, Line 12)	0.1546		
22	CIT=(T/(1-T)) * (1-(WCLTD/R)) = FIT, SIT & p	WCLTD = Page 4, Line 27; R = Page 4, Line 30 (Note K)	0.1586		
23	1 / (1 - T) = (from Line 21)	1 / (1 - T) (T from Line 21)	1.1828		
24	Amortized Investment Tax Credit	(enter negative) Attachment 5, Line 26, Col. (i)	-		
24a	Excess Deferred Income Taxes	(enter negative) Attachment 5, Line 26, Col. (j)	-		
24b	Tax Effect of Permanent Differences	Attachment 5, Line 26, Col. (k) (Note II)	1,159		
25	Income Tax Calculation	(Line 22) times (Page 4, Line 30) times (Page 2, Line 30)	179,180		173,615
26	ITC adjustment	(Line 23 times Line 24)	-	NP	-
26a	Excess Deferred Income Tax Adjustment	(Line 23 times Line 24a)	-	NP	-
26b	Permanent Differences Tax Adjustment	(Line 23 times Line 24b)	1,371	NP	1,371
27	Total Income Taxes	(Sum of Lines 25 through 26b)	180,550		174,986
	RETURN				
28	Rate Base times Return	(Page 2, Line 30 times Page 4, Line 30, Col. (5))	1,129,960	NA	1,094,871
29	REV. REQUIREMENT	(Sum of Lines 8, 12, 20, 27 & 28)	8,951,934		4,770,943
30	LESS ATTACHMENT GG ADJUSTMENT [Attachment GG-GLH, Page 2, Line 17, Column 14] (Note V)				
	[Revenue Requirement for facilities included on Page 2, Lines 2, 18a, 23a, & 23b and also included in Attachment GG]		-	DA	-
30a	LESS ATTACHMENT MM ADJUSTMENT [Attachment MM-GLH, Page 2, Line 17, Column 14] (Note Z)				
	[Revenue Requirement for facilities included on Page 2, Lines 2, 18a, 23a, & 23b and also included in Attachment MM]		-	DA	-
30b	PLUS Incentives on Attachment 1 for projects other than those included in Attachment MM-GLH and Attachment GG-GLH.	Attachment 1, line 18	-		-
31	REV. REQUIREMENT TO BE COLLECTED UNDER ATTACHMENT O (Line 29 - Line 30 - Line 30a + Line 30b)		8,951,934		4,770,943

Formula Rate - Non-Levelized		Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		Attachment O-GLH Page 4 of 5 For the 12 months ended 12/31/2021	
(1)	(2)	(3)	(4)	(5)	
SUPPORTING CALCULATIONS AND NOTES					
Line No.	TRANSMISSION PLANT INCLUDED IN ISO RATES				
1	Total Transmission plant	(Page 2, Line 2, Column 3)		28,075,665	
2	Less Transmission plant excluded from ISO rates	(Note L)		-	
3	Less Transmission plant included in OATT Ancillary Services	(Note M)		-	
4	Transmission plant included in ISO rates	(Line 1 minus Lines 2 & 3)		28,075,665	
5	Percentage of Transmission plant included in ISO Rates	(Line 4 divided by Line 1)	TP=	1.00	
6 - 11	WAGES & SALARY ALLOCATOR (W&S)				
	Form 1 Reference	\$	TP	Allocation	
12	Production	354.20.b	-	-	
13	Transmission (Note MM)	354.21.b	-	1.00	
14	Distribution	354.23.b	-	-	
15	Other	354.24,25,26.b	-	-	
16	Total (sum lines 12-15) [ If there are no labor dollars, input \$1 on line 13 which is then multiplied by the TP allocator on line 13)	-	-	-	GP (\$ / Allocation)
					= WS
	COMMON PLANT ALLOCATOR (CE) (Notes N and DD)	\$		% Electric (Line 17 / Line 20)	W&S Allocator (Line 16)
17	Electric	200.3.c	30,658,757	1.00000 *	CE
18	Gas	200.3.d	-		
19	Water	200.3.e	-		
20	Total	(Sum of Lines 17 through 19)	30,658,757		
21 - 26	RETURN (R)				
		\$	%	Cost	\$
27	Long Term Debt	(Note Y, EE) Attachment 5, Line 34	0 40%	2.25%	Weighted 0.90% =WCLTD
28	Preferred Stock	(Note Y, EE) Attachment 5, Line 35	- 0%	0.00%	0.00%
29	Common Stock	(Notes O, Y and EE) Attachment 5, Line 36	1 60%	9.80%	5.88%
30	Total	(Sum of Lines 27 through 29)	1		6.78% =R
	REVENUE CREDITS				
	ACCOUNT 447 (SALES FOR RESALE)	310 -311			Load
31	a. Bundled Non-RQ Sales for Resale	311.x.h			-
32	b. Bundled Sales for Resale included in Divisor on Page 1				-
33	Total of (a)-(b)	(Note P)			-
34	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY)	(Note Q)			-
34a	ACCOUNT 456 (OTHER ELECTRIC REVENUES)	(Note NN)			-
	ACCOUNT 456.1 (REVENUES FROM TRANSMISSION OF ELECTRICTY OF OTHE330.x.n (Note T)				
35	a. Transmission charges for all transmission transactions				-
36	b. Transmission charges for all transmission transactions included in Divisor on Page 1				-
36a	c. Transmission charges from Schedules associated with Attachment GG	(Note W)			-
36b	d. Transmission charges from Schedules associated with Attachment MM	(Note AA)			-
37	Total of (a)-(b)-(c)-(d)				-
(a)	(b)	(c)	(d)	(e)	
Income Taxes	% Ownership that has Actual or Potential Income Tax Liability		Total Income Taxes	Total Income Taxes Allocated	
38	Ownership (input in Col. (b) the % ownership with Income Tax Liability)	0.00%			
39	39(b) = return from Page 3, Line 28, Col 3 times % in Line 38, Col b				
39(e)	= return from Page 3, Line 28, Col 5 times % in Line 38, Col b	-			-
40	Income Tax Page 3, line 22 [CIT=(T/I-T) * (1-(WCLTD/R))]] x Line 39	-	-		-

					Attachment O-GLH Page 5 of 5 For the 12 months ended 12/31/2021
	Formula Rate - Non-Levelized			Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC	
	General Note: References to pages in this formulary rate are indicated as: (page#, line#, col.#) References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)				
Note Letter					
A	Peak as would be reported on Page 401, Column d of Form 1 at the time of the applicable pricing zone coincident monthly peaks.				
B	Labeled LF, LU, IF, IU on Pages 310-311 of Form 1 at the time of the applicable pricing zone coincident monthly peaks.				
C	Labeled LF on Page 328 of Form 1 at the time of the applicable pricing zone coincident monthly peaks.				
D	Labeled LF on Page 328 of Form 1 at the time of the applicable pricing zone coincident monthly peaks.				
E	The FERC's annual charges for the year assessed the Transmission Owner for service under this formula rate.				
F	The balances in Accounts 190, 281, 282 and 283, as adjusted by any amounts in contra accounts identified as regulatory assets or liabilities related to FASB 106 or 109. Balance of Account 255 is reduced by prior flow through and excluded if the utility chose to utilize amortization of tax credits against taxable income. Account 281 is not allocated.				
G	Identified in Form 1 as being only transmission related.				
H	Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission at Page 3, Line 8, Column 5 less Page 3, Line 7a. Prepayments are the electric related prepayments booked to Account No. 165 and reported on Page 111 Line 57 in the Form 1.				
I	Line 5 - EPRI Annual Membership Dues listed in Form 1 at 353.f, all Regulatory Commission Expenses itemized at 351.h, and non-safety related advertising included in Account 930.1. Line 5a - Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting itemized at 351.h.				
J	Includes only FICA, unemployment, highway, property, gross receipts, and other assessments charged in the current year. Taxes related to income are excluded. Gross receipts taxes are not included in transmission revenue requirement in the Rate Formula Template, since they are recovered elsewhere.				
K	The currently effective income tax rate, where FIT is the weighted average Federal income tax rate; SIT is the weighted average State income tax rate, and p = "the percentage of federal income tax deductible for state income taxes". If the utility is taxed in more than one state it must attach a work paper showing the name of each state and how the blended or composite SIT was developed. Furthermore, a utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f) multiplied by (1/1-T) (Page 3, Line 26). Excess Deferred Income Taxes reduce income tax expense by the amount of the expense multiplied by				
	Inputs Required:	FIT =	See Attachment 10	(Federal Income Tax Rate)	
		SIT=	See Attachment 10	(State Income Tax Rate or Composite SIT)	
		p =	See Attachment 10	(percent of federal income tax deductible for state purposes)	
L	Removes transmission plant determined by Commission order to be state-jurisdictional according to the seven-factor test (until Form 1 balances are adjusted to reflect application of seven-factor test) or removes transmission plant that is not under MISO functional control.				
M	Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to be included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.				
N	Enter dollar amounts				
O	ROE will be supported in the original filing and no change in ROE may be made absent a filing with FERC. A 50 basis point adder for RTO participation may be added to the ROE up to the upper end of the zone of reasonableness established by FERC.				
P	Page 4, Line 33 must equal zero since all short-term power sales must be unbundled and the transmission component reflected in Account No. 456.1.				
Q	Includes income related only to transmission facilities, such as pole attachments, rentals and special use, less any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.				
R	Grandfathered agreements whose rates have been changed to eliminate or mitigate pancaking - the revenues are included in Line 4 Page 1 and the loads are included in Line 13, Page 1. Grandfathered agreements whose rates have not been changed to eliminate or mitigate pancaking - the revenues are not included in Line 4, Page 1 nor are the loads included in Line 13, Page 1. This line will exclude any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.				
S	The revenues credited on Page 1, Lines 2-6 shall include only the amounts received directly (in the case of grandfathered agreements) or from the ISO (for service under this tariff) reflecting the Transmission Owner's integrated transmission facilities. They do not include revenues associated with FERC annual charges, gross receipts taxes, facilities not included in this template (e.g., direct assignment facilities and GSUs) which are not recovered under this Rate Formula Template. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.				
T	Account 456.1 entry shall be the annual total of the quarterly values reported at Form 1, Page 330.x.n., less any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.				
U	Includes scheduling, system control and dispatch costs recorded in Accounts 561.1 through 561.3 and which are recovered in Schedule 1 or Schedule 24 rates. Also excludes Account 561.4 and Account 561.8.				
V	Pursuant to Attachment GG of the MISO Tariff, removes dollar amount of the revenue requirements calculated pursuant to Attachment GG.				
W	Removes from revenue credits revenue that are distributed pursuant to Schedules associated with Attachment GG of the MISO Tariff, since the Transmission Owner's Attachment O revenue requirements have already been reduced by the Attachment GG revenue requirements.				
X	Page 2 Line 23b includes any unamortized balances related to the recovery of abandoned plant costs approved by FERC under a separate docket. Page 3, Line 11a includes the Amortization expense of abandonment costs. These are shown in the workpapers required pursuant to the Annual Rate Calculation and True-up Procedures.				
Y	Calculate using 13 month average balance, reconciling to FERC Form No. 1 by Page, Line, and Column as shown in Attachment 4 for inputs on page 2 of 5 above, except ADIT, page 2, lines 19-22, which is on Attachment 8a or 8e and shown on Attachment 5. Calculate using 13 month average balance, reconciling to FERC Form No. 1 by Page, Line, and Column as shown in Attachment 5 for inputs on lines 27, 28 and 29 of page 4 of 5 above. For the first Rate Year, as defined in the Protocols, GLH will use thirteen months of balances in calculating the 13- month average for the determination of the projected net revenue requirement				
Z	Pursuant to Attachment MM of the MISO Tariff, removes dollar amount of the revenue requirements calculated pursuant to Attachment MM.				
AA	Removes from revenue credits revenues that are distributed pursuant to Schedules associated with Attachment MM of the MISO Tariff, since the Transmission Owner's Attachment O revenue requirements have already been reduced by the Attachment MM revenue requirements.				
BB	Plant in Service, Accumulated Depreciation, and Depreciation Expense amounts exclude Asset Retirement Obligation amounts unless authorized by FERC.				
CC	Schedule 10-FERC charges should not be included in O&M recovered under this Attachment O.				
DD	Calculate using a simple average of beginning of year and end of year balances reconciling to FERC Form No. 1 by Page, Line and Column as shown in Column 2.				
EE	Prior to obtaining long term debt, the cost of debt will be the average 3-month LIBOR for the year plus 2.0%. LIBOR refers to the London Inter Bank Offer Rate from the Federal Reserve Bank of St. Louis's https://fred.stlouisfed.org/. The capital structure and cost of debt will be the weighted for the year if the long term debt is obtained midyear. However, if prior to obtaining long term debt, the company has short term debt, the cost of debt will be calculated pursuant to Attachment 5, note D. The capital structure will be 60% equity and 40% debt until any asset is placed in service, then it will be based on the actual capital structure, provided that during any period where the equity component of the actual capital structure is greater than 60%, company will reduce the equity component to a level not to exceed 60%. If the capital structure is reduced to 60% equity, the reduced ATRR as a result of capping the equity portion of GridLiance's capital structure at 60%, and the difference between these two values shall be provided by the company in its Annual True-up. The amount of debt in the capital structure will be equal to 1 minus the equity percentage.				
FF	Unamortized Abandoned Plant and Amortization of Abandoned Plant will be zero until the Commission accepts or approves recovery of the cost of abandoned plant. Utility must submit a Section 205 filing to recover the cost of abandoned plant.				
GG	Recovery of regulatory asset permitted only for pre-commercial and formation expenses and are subject to FERC approval before any Regulatory Asset amounts are included in rates. Recovery of any other regulatory assets requires authorization from the Commission. A carrying charge equal to the AFUDC rate will be applied to the regulatory asset prior to the rate year when costs are first recovered.				
HH	Reserved				
II	The Tax Effect of Permanent Differences captures the differences in the income taxes due under the Federal and State calculations and the income taxes calculated in Attachment O-GLH that are not the result of a timing difference.				
JJ	DA in the allocator Column means that the cost is directly assigned to transmission consistent with the attached workpapers.				
KK	Round to zero if amount shown is not zero and there is no revenue requirement to recover under Schedules 7, 8, and 9 of the MISO OATT.				
LL	AFUDC ceases when CWIP is recovered in rate base. No CWIP will be included in rate base on line 18a absent FERC authorization.				
MM	It is possible GLH will not have any salaries and wages to report in the FERC Form No. 1 (that is page 4, lines 12-15 are zero), even if GLH has existing transmission assets in service. If and when this occurs page 4, line 13, column 3 will be input as 1.				
NN	Includes revenue from electric operations properly credited to MISO customers and not includible in other accounts, such as compensation for minor or incidental services provided for others. GLH commits to provide a workpaper itemizing each revenue source for interested parties to determine which revenues should be reflected herein.				
End					

Attachment 2 Incentive Return GridLiance Heartland LLC									
A	B	C	D	E	F	G	H	I	J
1	Rate Base	Attachment O-GLH, page 2, line 30, Col.5							16,148,538
2	100 Basis Point Incentive Return							\$	
			\$	%		Cost		Weighted	
3	Long Term Debt	Attachment O-GLH, Notes Y and EE	-	40%		2.25%		0.0090	
4	Preferred Stock	Attachment O-GLH, Notes Y and EE	-	0%		-		-	
5	Common Stock (Note A)	Attachment O-GLH, Notes O, Y and EE	-	60%		10.80%		0.0648	
6	Total	Sum Lines 3 to 5	-					0.0738	
7	100 Basis Point Incentive Return multiplied by Rate Base	Line 1 * Line 6, Col. I							1,191,762
8	INCOME TAXES								
9	T=SIT * (1-FIT) + FIT - (p*FIT)	Attachment O-GLH, Page 3, Line 21	0.1546						
10	CIT=(T/1-T) * (1-(WCLTD/R)) =		0.1605						
11	WCLTD = Line 3								
12	and FIT, SIT & p are as given in footnote K.								
13	1 / (1 - T) = (from line 9)		1.1828						
14	Amortized Investment Tax Credit (266.8f) (enter negative)	Attachment O-GLH, Page 3, Line 24	-						
15	Excess Deferred Income Taxes (enter negative)	Attachment O-GLH, Page 3, Line 24a	-						
16	Tax Effect of Permanent Differences (Note B)	Attachment O-GLH, Page 3, Line 24b	1,159.00						
17	Income Tax Calculation	Line 10 * Line 7	191,331		NA			191,331	
18	ITC adjustment	Line 13 * Line 14	-		NP	-		-	
19	Excess Deferred Income Tax Adjustment	Line 13 * Line 15	-		NP	-		-	
20	Permanent Differences Tax Adjustment	Line 13 * Line 16	1,370.91		NP	-		-	
21	Total Income Taxes	Sum Lines 17 - 20	192,702					191,331	191,331
22	Return and Income Taxes with 100 basis point increase in ROE								1,383,093
23	Return	Attach. O, Page 3, Line 28, Col. 5							1,094,871
24	Income Tax	Attach. O, Page 3, Line 27, Col. 5							174,986
25	Return and Income Taxes without 100 basis point increase in ROE	Sum Lines 23 and 24							1,269,857
26	Incremental Return and Income Taxes for 100 basis point increase in ROE	Line 22 less Line 25							113,236
27	Rate Base	Line 1							16,148,538
28	Incremental Return and Income Taxes for 100 basis point increase in ROE divided by Rate Base	Line 26 / Line 27							0.0070

## Notes:

- A Line 5 includes a 100 basis point increase in ROE that is used only to determine the increase in return and income taxes associated with a 100 basis point increase in ROE. Any ROE incentive must be approved by the Commission.  
For example, if the Commission were to grant a 137 basis point ROE incentive, the increase in return and taxes for a 100 basis point increase in ROE would be multiplied by 1.37 on Attachment 1, column 16.
- B The Tax Effect of Permanent Differences captures the differences in the income taxes due under the Federal and State calculations and the income taxes calculated in Attachment O-GLH that are not the result of a timing difference.

Attachment 3 (Note 3)  
Project True-Up  
GridLiance Heartland LLC

Year				Annual True-Up Calculation			
1	A	B	C	D	E	F	G
	MTEP Project Number	Project Name	Adjusted Net Revenue Requirement <sup>1</sup>	Revenue Received <sup>2</sup>	Net Under/(Over) Collection (C-D)	Interest Income (Expense)	Total True-Up Adjustment (E + F)
			-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
2			-	-	-	-	-
2a			-	-	-	-	-
2b			-	-	-	-	-
2c			-	-	-	-	-
2d			-	-	-	-	-
3	Total		-	-	-	-	-

1) From Attachment GG - GLH True-Up Calculation, Column G and Attachment MM - GLH True-Up Calculation, Column G, and Attachment O-GLH.  
2) The "revenue received" is the total amount of revenue distributed to GLH in the True-Up Year. Attachment O, Lines 36a -37, page 4 of 5 of Attachment O - GLH  
3) This Attachment 3 is a summary of the Attachment GG -GLH True-Up Calculation and the Attachment MM - GLH True-Up Calculation. The Attachment O - GLH True-Up is the actual True-Up calculation.

For each project or Attachment O-GLH, the utility will populate the formula rate with the inputs for the True-Up Year. The revenue requirements, based on actual operating results for the True-Up Year, associated with the projects and Attachment O-GLH will then be entered in Col. (C) above. Column (D) contains the actual revenues received associated with Attachment GG-GLH, Attachment MM-GLH and Attachment O-GLH paid by MISO to the utility during the True-Up Year. Col. (E) is the Net Under/(Over) Collection where Col. (D) is subtracted from Col. (C). Column (F), line 2 is the interest calculated in accordance with Attachment O-GLH Annual True-Up, Information Exchange and Challenge Procedures. Column (F), lines 2x contain the interest amounts calculated in column (J) of the Annual Attachment GG True-Up Calculation and the Annual Attachment MM True-Up Calculation. Col. (G) is the sum of the Net Under/(Over) Collection in Col. (E) and the interest in Col. (F).

FERC Refund Interest Rate

(a)		(b)	(c)	(d)
Interest Rate:		Quarter	Year	Quarterly Interest Rate under Section 35.19(a)
4		1st Qtr.	-	-
5		2nd Qtr	-	-
6		3rd Qtr	-	-
7		4th Qtr	-	-
8		1st Qtr	-	-
9		2nd Qtr	-	-
10		3rd Qtr	-	-
11		Sum lines 5-11	-	-
12				
13	Avg. Monthly FERC Rate	Line 12 divided by 7	-	-

Gross Plant In Service (Attachment O, Note Y and BB)							CWIP	LHFFU	Working Capital	Accumulated Depreciation (Attachment O, Note Y and BB)					
Line No	Month (a)	Production (b)	Transmission (c)	Distribution (d)	General & Intangible (e)	Common (f)	CWIP (Note C) (g)	Land Held for Future Use (h)	Materials & Supplies (i)	Prepayments (j)	Production (k)	Transmission (l)	Distribution (m)	General & Intangible (n)	Common (o)
	FN1 Reference for Dec	205.46.g	207.58.g	207.75.g	205.5.g & 207.99.g	356.1	216.x.b	214.x.d	227.8.c & 227.16.c	111.57.c	219.20-24.c	219.25.c	219.26.c	219.28.c & 200.21.c	356.1
1	December Prior Year	-	27,606,012	-	-	-	-	-	328,467	1,206,208	-	12,930,481	-	-	-
2	January	-	27,606,012	-	-	-	-	-	328,467	1,099,944	-	12,976,491	-	-	-
3	February	-	27,606,012	-	-	-	-	-	328,467	993,680	-	13,022,501	-	-	-
4	March	-	27,606,012	-	-	-	-	-	328,467	887,417	-	13,068,511	-	-	-
5	April	-	27,606,012	-	-	-	-	-	328,467	781,153	-	13,114,521	-	-	-
6	May	-	27,606,012	-	-	-	-	-	328,467	674,890	-	13,160,531	-	-	-
7	June	-	27,606,012	-	-	-	-	-	328,467	568,626	-	13,206,541	-	-	-
8	July	-	27,606,012	-	-	-	-	-	328,467	462,363	-	13,252,551	-	-	-
9	August	-	27,606,012	-	-	-	-	-	328,467	356,099	-	13,298,561	-	-	-
10	September	-	27,606,012	-	-	-	-	-	328,467	325,039	-	13,344,571	-	-	-
11	October	-	27,606,012	-	-	-	-	-	328,467	250,252	-	13,390,581	-	-	-
12	November	-	27,606,012	-	-	-	-	-	328,467	142,856	-	13,436,591	-	-	-
13	December	-	33,711,503	-	-	-	-	-	328,467	148,329	-	13,492,777	-	-	-
14	Average of the 13 Monthly Balances	-	28,075,665	-	-	-	-	-	328,467	607,450	-	13,207,324	-	-	-
Adjustments to Rate Base (Attachment O, Note Y)															

Line No	Month (a)	Unamortized Regulatory Asset (b)	Unamortized Abandoned Plant (c)	Reserved (d)	Reserved (e)	Reserved (f)	Reserved (g)	Account No. 255 Accumulated Deferred Investment Credit (Note D) (h)
	FN1 Reference for Dec	Notes A & E	Notes B & F					Consistent with 266.8.b & 267.8.h
15	December Prior Year	-	-					-
16	January	-	-					-
17	February	-	-					-
18	March	-	-					-
19	April	-	-					-
20	May	-	-					-
21	June	-	-					-
22	July	-	-					-
23	August	-	-					-
24	September	-	-					-
25	October	-	-					-
26	November	-	-					-
27	December	-	-					-
28	Average of the 13 Monthly Balances -	-	-					-

Attachment 4  
Rate Base Worksheet (Page 2 of Attachment O - GLH)  
GridLiance Heartland LLC

Line No	Unfunded Reserves (Note G)	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
				Enter 1 if NOT in a trust or reserved account, enter zero (0) if included in a trust or reserved account	Enter 1 if the accrual account is included in the formula rate, enter zero (0) if the accrual account is NOT included in the formula rate	Enter the percentage paid for by customers, 1 less the percent associated with an offsetting liability on the balance sheet	Allocation (Plant or Labor Allocator)		Amount Allocated, col. (c) x col. (d) x col. (e) x col. (f) x col. (g)
29	List of all reserves:		Amount						
30a		Reserve 1	-	-	-	-	-	-	-
30b		Reserve 2	-	-	-	-	-	-	-
30c		Reserve 3							-
30d		Reserve 4							-
30e		...							-
30f		...	-	-					-
31		Total	-						-

Notes:

A Recovery of regulatory asset is limited to any regulatory assets authorized by FERC.

B Recovery of abandoned plant is limited to any abandoned plant recovery authorized by FERC.

C Includes only CWIP authorized by the Commission for inclusion in rate base. The Annual Update will include for each project under construction (i) the CWIP balance eligible for inclusion in rate base; (ii) the CWIP balance ineligible for inclusion in rate base; and (iii) a demonstration that AFUDC is only applied to the CWIP balance that is not included in rate base. The Annual Update will reconcile the project-specific CWIP balances to the total Account 107 CWIP balance reported on p. 216.b of the FERC Form 1

D Accumulated Deferred Income Tax Credits are computed on Attachments 8a and 8b

E Recovery of a Regulatory Asset is permitted only for pre-commercial and formation expenses, and is subject to FERC approval before the amortization of the Regulatory Asset can be included in rates. Recovery of any other regulatory assets requires authorization from the Commission. A carrying charge equal to the AFUDC rate will be applied to the Regulatory Asset prior to the rate year when costs are first recovered.

F Unamortized Abandoned Plant and Amortization of Abandoned Plant will be zero until the Commission accepts or approves recovery of the cost of abandoned plant.

G The Formula Rate shall include a credit to rate base for all unfunded reserves (funds collected from customers that (1) have not been set aside in a trust, escrow or restricted account; (2) whose balance are collected from customers through cost accruals to accounts that are recovered under the Formula Rate; and (3) exclude the portion of any balance offset by a balance sheet account). Each unfunded reserve will be included on lines 30 above. The allocator in Col. (g) will be the same allocator used in the formula for the cost accruals to the account that is recovered under the Formula Rate. Reserves can be created by capital contributions from customers, by debiting the reserve and crediting a liability, or a combination of customer capital contribution and offsetting liability. Only the portion of a reserve that was created by customer contributions should be a reduction to rate base. For reserves that be created partially through customer contributions and partially by an offsetting liability, enter in column (f) the percentage of the reserve that was contributed by customers.



Attachment 5 Attachment O - GLH, Page 3 Worksheet GridLiance Heartland LLC													
Line No.	Month	Transmission O&M Expenses	Account No. 566 (Misc. Trans. Expense)	Account No. 565	A&G Expenses	FERC Annual Fees	EPRI & Reg. Comm. Exp. & Non-safety Ad.	Transmission Related Reg. Comm. Exp.	Transmission Lease Payments	Amortization of Regulatory Asset	Miscellaneous Transmission Expense (less Amortization of Regulatory Asset)	Depreciation Expense - Transmission (Attachment O - GLH, Note BB)	Less Ancillary Service Expenses included in Transmission O&M Accounts
Attachment O - GLH, Page 3, Line Number													
		1 (a)	1b (b)	2 (c)	3 (d)	4 (e)	5 (f)	5a (g)	7 (h)	7b (i)	7c (j)	9 (k)	1a (l)
	FERC Form 1 Reference	321.112.b	321.97.b	321.96.b	323.197.b	Attachment O - GLH, Note I	Attachment O - GLH, Note I	Attachment O - GLH, Note I		321.97.b	321.97.b	336.7.f	Attachment O - GLH, Note U
1	January	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
2	February	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
3	March	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
4	April	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
5	May	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
6	June	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
7	July	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
8	August	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
9	September	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
10	October	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
11	November	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708
12	December	378,228	-	-	345,028	-	-	-	-	-	-	56,186	148,708
13	Total	\$ 4,538,738	\$ -	\$ -	\$ 4,140,338	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 562,296	\$ 1,784,502
Attachment O - GLH, Page 3, Line Number													
		10 (a)	11a (b)	13 (c)	14 (d)	16 (e)	17 (f)	18 (g)	19 (h)	24 (i)	24a (j)	24b (k)	11 (l)
	FERC Form 1 Reference	336.10.f & 336.1.f	Attachment O - GLH, Note X & FF	263.i	263.i	263.i	263.i	263.i		266.8.f			336.11.f
14	January	-	-	-	-	15,379	-	-	-	-	-	96	-
15	February	-	-	-	-	15,379	-	-	-	-	-	96	-
16	March	-	-	-	-	15,379	-	-	-	-	-	96	-
17	April	-	-	-	-	15,379	-	-	-	-	-	96	-
18	May	-	-	-	-	15,379	-	-	-	-	-	96	-
19	June	-	-	-	-	15,379	-	-	-	-	-	97	-
20	July	-	-	-	-	15,379	-	-	-	-	-	97	-
21	August	-	-	-	-	15,379	-	-	-	-	-	97	-
22	September	-	-	-	-	15,379	-	-	-	-	-	97	-
23	October	-	-	-	-	15,379	-	-	-	-	-	97	-
24	November	-	-	-	-	15,379	-	-	-	-	-	97	-
25	December	-	-	-	-	15,379	-	-	-	-	-	97	-
26	Total	\$ -	\$ -	\$ -	\$ -	\$ 184,553	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,159	\$ -
27 RETURN (R) (Attachment O-GLH, Notes O, Y, and EE)													
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	
28			Long Term Interest (117, sum of 62.c through 67.c)						-				
29			Preferred Dividends (118.29c) (positive number)						-				
30			Proprietary Capital (112.16.c)						-				
31			Less Preferred Stock (line 35, col. (d))						-				
32			Less Account 216.1 (112.12.c)		(enter negative)				-				
33			Common Stock		(sum lines 30 - 32)				-				
Cost Rates													
34	Long Term Debt	Note A and Note D		\$	%	0.40	40.00%	2.25%		Weighted	0.90% =WCLTD		
35	Preferred Stock (112.3.c)	Note B		-	0.00%			0.00%			0.00%		
36	Common Stock	Note C		0.60	60.00%			9.80%			5.88%		
37	Total	(Sum of Lines 34 through 36)				1					6.78% =R		

Note:  
A Long Term debt balance will reflect the 13 month average of the balances, of which the 1st and 13th are found on page 112 lines 18.c to 21.c in the Form No. 1, the cost is calculated by dividing line 28 by the Long Term Debt balance in line 34.  
B Preferred Stock balance will reflect the 13 month average of the balances, of which the 1st and 13th are found on page 112 line 3.c in the Form No. 1, the cost is calculated by dividing line 29 by the Preferred Stock balance in line 35.  
C Common Stock balance will reflect the 13 month average of the balances, of which the 1st and 13th are found on page 112 lines 3.c 12.c, 16.c in the Form No. 1 as shown on lines 30-33 above  
D If the company has short-term debt prior to issuing long-term debt, line 34 will reflect the outstanding short-term debt and cost rates only until long term debt is issued, as calculated below:  
  
Short-term debt outstanding The 13 month average of the balances consistent with "S", the average short-term debt balance pursuant to Part 101 of the Commission's Regulations, Electric Plant Instruction 17  
Short-term debt cost The interest "s", the short-term debt interest rate pursuant to Part 101 of the Commission's Regulations, Electric Plant Instruction 17

Attachment 6  
Depreciation Rates  
GridLiance Heartland LLC

<u>FERC ACCOUNT</u>	<u>DESCRIPTION</u>	<u>RATE PERCENT</u>
<u>TRANSMISSION</u>		
350	Land Rights	N/A
352	Structures and Improvements	1.5397%
353	Station Equipment	2.0285%
354	Towers and Fixtures	1.8847%
355	Poles and Fixtures	2.1496%
356	Overhead Conductors & Devices	2.0973%
357	Underground Conduit	1.3665%
358	Underground Conductors & Devices	1.8416%
359	Roads and Trails	0.0000%
<u>GENERAL AND INTANGIBLE</u>		
302	Franchises and Consents (Note 1)	N/A
303	Intangible Plant - 5 Year	20.0000%
390	Structures and Improvements	2.1194%
391	Office Furniture and Equipment	5.0671%
391	Network Equipment	25.0000%
392	Transportation Equipment - Auto	10.9667%
392	Transportation Equipment - Light Truck	8.4139%
392	Transportation Equipment - Trailers	6.9486%
392	Transportation Equipment - Heavy Trucks	7.2364%
393	Stores Equipment	5.0000%
394	Tools, Shop and Garage Equipment	6.6672%
395	Laboratory Equipment	10.0000%
396	Power Operated Equipment	8.4139%
397	Communication Equipment	11.1110%
398	Miscellaneous Equipment	6.6672%

Note 1:

Electric Intangible Franchises and Transmission Land Rights are amortized  
over the life of the franchise agreement or land right.

Note 2:

GLH's depreciation and amortization rates may not be changed absent a section  
205 or 206 filing

Attachment 7  
PBOPs  
GridLiance Heartland LLC

**Calculation of PBOP Expenses**

Line No.			Year Ended December
			31, ____
1			
2	Total PBOP expenses	Note A	-
3	Labor dollars	Note A	-
4	Cost per labor dollar	Line 2 divided by line 3	-
5	labor (labor not capitalized) current year	(Note B)	-
6	PBOP Expense for current year	Line 4 times line 5	-
7	Lines 2 and 3 cannot change absent approval or acceptance by FERC in a separate proceeding.		
8	PBOP amount included in Company's O&M and A&G expenses in Form No. 1		

Note

Letter

- A Amounts will be zero until changed pursuant to a FERC order.
- B The sum of all labor included in accounts 560 to 579 and 920 to 935

## Attachment 8a - Accumulated Deferred Income Taxes (ADIT) Average Worksheet (Projection)

## GridLiance Heartland LLC

Projection For the 12 months ended 12/31/2021

Ln	A Item	B Transmission Related	C Plant Related	D Labor Related	E (Sum Col. B, C & D) Total
1	ADIT-282 (enter negative)	(63,351)	-	-	Line 12
2	ADIT-283 (enter negative)	(99,901)	-	-	Line 16
3	ADIT-190	163,252	-	-	Line 21
4	Subtotal	(0)	-	-	Sum of Lines 1-3
5	Wages & Salary Allocator			-	Attachment-O Page 4 line 16
6	Net Plant Allocator		1.00		Attachment-O Page 2 line 6
7	Total Plant Allocator	1.00			100%
8	Projected ADIT Total	(0)	-	-	(0) Enter as negative Attachment-O, page 2, line 22

	(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Balance	(e) Transmission Related	(f) Plant Related	(g) Labor Related
ADIT-282							
9	Balance-BOY (Attach 8c, Line 30)	December	2020	-	-	-	-
10	EOY (Attach 8d, Line 30 less Line 26)	December	2021	-	-	-	-
11	Balance-EOY Prorated (Attach 8b, Line 14)	December	2021	(63,351)	(63,351)	-	-
12	ADIT 282-Total (Lines 10+11)			(63,351)	(63,351)	-	-
ADIT-283							
13	Balance-BOY (Attach 8c, Line 44)	December	2020	(163,885)	(163,885)	-	-
14	EOY (Attach 8d, Line 44 less Line 40)	December	2021	-	-	-	-
15	EOY Prorated (Attach 8b, Line 28)	December	2021	(99,901)	(99,901)	-	-
16	ADIT 283-Total (Lines 14+15)			(99,901)	(99,901)	-	-
ADIT-190							
17	Balance-BOY (Attach 8c, Line 18)	December	2020	187,569	187,569	-	-
18	EOY (Attach 8d, Line 18 less Line 14)	December	2021	-	-	-	-
19	EOY Prorated (Attach 8b, Line 42)	December	2021	163,252	163,252	-	-
20	ADIT 190-Total (Lines 18+19)			163,252	163,252	-	-

## Attachment 8b - Accumulated Deferred Income Taxes (ADIT) Proration Worksheet (Projection)

## GridLiance Heartland LLC

Projection For the 12 months ended 12/31/2021

(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Weighting for Projection	(e) Beginning Balance/ Monthly Increment	(f) Transmission	(g) Transmission Proration (d) x (f)	(h) Plant Related	(i) Plant Proration (d) x (h)	(j) Labor Related	(k) Labor Proration (d) x (j)
<b>ADIT-282-Proration-Note A</b>										
1 Balance (Attach 8c, Line 30)	December	2020	100.00%	(23,684)	(23,684)	(23,684)	-	-	-	-
2 Increment	January	2021	91.78%	(7,136)	(7,136)	(6,549)	-	-	-	-
3 Increment	February	2021	84.11%	(7,136)	(7,136)	(6,002)	-	-	-	-
4 Increment	March	2021	75.62%	(7,136)	(7,136)	(5,396)	-	-	-	-
5 Increment	April	2021	67.40%	(7,136)	(7,136)	(4,809)	-	-	-	-
6 Increment	May	2021	58.90%	(7,136)	(7,136)	(4,203)	-	-	-	-
7 Increment	June	2021	50.68%	(7,136)	(7,136)	(3,617)	-	-	-	-
8 Increment	July	2021	42.19%	(7,136)	(7,136)	(3,011)	-	-	-	-
9 Increment	August	2021	33.70%	(7,136)	(7,136)	(2,405)	-	-	-	-
10 Increment	September	2021	25.48%	(7,136)	(7,136)	(1,818)	-	-	-	-
11 Increment	October	2021	16.99%	(7,136)	(7,136)	(1,212)	-	-	-	-
12 Increment	November	2021	8.77%	(7,136)	(7,136)	(626)	-	-	-	-
13 Increment	December	2021	0.27%	(7,136)	(7,136)	(20)	-	-	-	-
14 ADIT 282-Prorated EOY Balance				(109,314)	(109,314)	(63,351)	-	-	-	-
<b>ADIT-283-Proration-Note B</b>										
15 Balance (Attach 8c, Line 44)	December	2020	100.00%	(163,885)	(163,885)	(163,885)	-	-	-	-
16 Increment	January	2021	91.78%	11,510	11,510	10,564	-	-	-	-
17 Increment	February	2021	84.11%	11,510	11,510	9,681	-	-	-	-
18 Increment	March	2021	75.62%	11,510	11,510	8,704	-	-	-	-
19 Increment	April	2021	67.40%	11,510	11,510	7,758	-	-	-	-
20 Increment	May	2021	58.90%	11,510	11,510	6,780	-	-	-	-
21 Increment	June	2021	50.68%	11,510	11,510	5,834	-	-	-	-
22 Increment	July	2021	42.19%	11,510	11,510	4,856	-	-	-	-
23 Increment	August	2021	33.70%	11,510	11,510	3,879	-	-	-	-
24 Increment	September	2021	25.48%	11,510	11,510	2,933	-	-	-	-
25 Increment	October	2021	16.99%	11,510	11,510	1,955	-	-	-	-
26 Increment	November	2021	8.77%	11,510	11,510	1,009	-	-	-	-
27 Increment	December	2021	0.27%	11,510	11,510	32	-	-	-	-
28 ADIT 283-Prorated EOY Balance				(25,763)	(25,763)	(99,901)	-	-	-	-
<b>ADIT-190-Proration-Note C</b>										
29 Balance (Attach 8c, Line 18)	December	2020	100.00%	187,569	187,569	187,569	-	-	-	-
30 Increment	January	2021	91.78%	(4,374)	(4,374)	(4,015)	-	-	-	-
31 Increment	February	2021	84.11%	(4,374)	(4,374)	(3,679)	-	-	-	-
32 Increment	March	2021	75.62%	(4,374)	(4,374)	(3,308)	-	-	-	-
33 Increment	April	2021	67.40%	(4,374)	(4,374)	(2,948)	-	-	-	-
34 Increment	May	2021	58.90%	(4,374)	(4,374)	(2,577)	-	-	-	-
35 Increment	June	2021	50.68%	(4,374)	(4,374)	(2,217)	-	-	-	-
36 Increment	July	2021	42.19%	(4,374)	(4,374)	(1,846)	-	-	-	-
37 Increment	August	2021	33.70%	(4,374)	(4,374)	(1,474)	-	-	-	-
38 Increment	September	2021	25.48%	(4,374)	(4,374)	(1,115)	-	-	-	-
39 Increment	October	2021	16.99%	(4,374)	(4,374)	(743)	-	-	-	-
40 Increment	November	2021	8.77%	(4,374)	(4,374)	(384)	-	-	-	-
41 Increment	December	2021	0.27%	(4,374)	(4,374)	(12)	-	-	-	-
42 ADIT 190-Prorated EOY Balance				135,077	135,077	163,252	-	-	-	-

**Note 1** Uses a 365 day calendar year.**Note 2** Projected end of year ADIT must be based solely on enacted tax law. No assumptions for future estimated changes in tax law may be forecasted.**A** Substantial portion, if not all, of the ADIT-282 balance is subject to proration. Explanation must be provided for any portion of balance not subject to proration.**B** Only amounts in ADIT-283 relating to Depreciation, if applicable, are subject to proration. See Line 44 in Attach 8c and 8d.**C** Only amounts in ADIT-190 related to net operating loss NOL carryforwards, if applicable, are subject to proration. See Line 18 in Attach 8c and 8d.

Attachment 8c - Accumulated Deferred Income Taxes (ADIT) Worksheet (Beginning of Year)  
For the 12 months ended 12/31/2021

Ln	Item	Transmission Related	Plant Related	Labor Related	
1	ADIT-282	(23,684)	-	-	Line 30
2	ADIT-283	(163,885)	-	-	Line 44
3	ADIT-190	187,569	-	-	Line 18
4	Subtotal	-	-	-	Sum of Lines 1-4

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns B-F and each separate ADIT item will be listed. Dissimilar items with amounts exceeding \$100,000 will be listed separately. For ADIT directly related to project depreciation or CWIP, the balance will be shown in a separate row for each project.

A	B	C	D	E	F	G
ADIT-190	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
5 Plant related						
6						
7						
8						
9						
10						
11						
12						
13						
14 NOL Carryforward	187,569		187,569			Amount subject to Proration
15 Subtotal - p234.b	187,569	-	187,569	-	-	
16 Less FASB 109 Above if not separately removed						
17 Less FASB 106 Above if not separately removed						
18 Total	187,569	-	187,569	-	-	

## Instructions for Account 190:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

Attachment 8c - Accumulated Deferred Income Taxes (ADIT) Worksheet (Beginning of Year)  
For the 12 months ended 12/31/2021

A	B	C	D	E	F	G
ADIT- 282	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
19 Plant related						
20						
21						
22						
23						
24						
25						
26 Plant Items	(23,684)		(23,684)	-		Amount subject to Proration
27 Subtotal - p274.b	(23,684)	-	(23,684)	-	-	
28 Less FASB 109 Above if not separately removed						
29 Less FASB 106 Above if not separately removed						
30 Total	(23,684)	-	(23,684)	-	-	

## Instructions for Account 282:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

A	B	C	D	E	F	G
ADIT- 283	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
31 Plant related						
32						
33						
34						
35						
36						
37						
38						
39						
40 Depreciation Items	(163,885)		(163,885)			Amount subject to Proration
41 Subtotal - p276.b	(163,885)	-	(163,885)	-	-	
42 Less FASB 109 Above if not separately removed						
43 Less FASB 106 Above if not separately removed						
44 Total	(163,885)	-	(163,885)	-	-	

## Instructions for Account 283:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

Attachment 8d - Accumulated Deferred Income Taxes (ADIT) Worksheet (End of Year)  
For the 12 months ended 12/31/2021

Ln	Item	Transmission Related	Plant Related	Labor Related	
1	ADIT- 282	(109,314.00)	-	-	Line 30
2	ADIT-283	(25,763.00)	-	-	Line 44
3	ADIT-190	135,077.00	-	-	Line 18
4	Subtotal	-	-	-	Sum of Lines 1-4

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns B-F and each separate ADIT item will be listed. Dissimilar items with amounts exceeding \$100,000 will be listed separately. For ADIT directly related to project depreciation or CWIP, the balance will be shown in a separate row for each project.

	A	B	C	D	E	F	G
	ADIT-190	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
5	Plant related						
6							
7							
8							
9							
10							
11							
12							
13							
14	NOL Carryforward	135,077		135,077			Amount subject to Proration
15	Subtotal - p234.c	135,077	-	135,077	-	-	
16	Less FASB 109 Above if not separately removed						
17	Less FASB 106 Above if not separately removed						
18	Total	135,077	-	135,077	-	-	

Instructions for Account 190:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.



Attachment 8d - Accumulated Deferred Income Taxes (ADIT) Worksheet (End of Year)  
For the 12 months ended 12/31/2021

A	B	C	D	E	F	G
ADIT-282	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
19 Plant related						
20						
21						
22						
23						
24						
25						
26 Plant Items	(109,314)		(109,314)			Amount subject to Proration
27 Subtotal - p275.k	(109,314)	-	(109,314)	-	-	
28 Less FASB 109 Above if not separately removed						
29 Less FASB 106 Above if not separately removed						
30 Total	(109,314)	-	(109,314)	-	-	

Instructions for Account 282:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

A	B	C	D	E	F	G
ADIT-283	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
31 Plant related						
32						
33						
34						
35						
36						
37						
38						
39						
40 Depreciation Items	(25,763)		(25,763)			Amount subject to Proration
41 Subtotal - p277.k	(25,763)	-	(25,763)	-	-	
42 Less FASB 109 Above if not separately removed						
43 Less FASB 106 Above if not separately removed						
44 Total	(25,763)	-	(25,763)	-	-	

Instructions for Account 283:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

## Attachment 8e - Accumulated Deferred Income Taxes (ADIT) Average Worksheet (True-Up)

## GridLiance Heartland LLC

For the 12 months ended 12/31/2021

Ln	A Item	B Transmission Related	C Plant Related	D Labor Related	E (Sum Col. B, C & D) Related
1	ADIT-282	45,963	-	-	Line 12
2	ADIT-283	-	-	-	Line 16
3	ADIT-190	28,176	-	-	Line 20
4	Subtotal	74,138	-	-	Sum of Lines 1-3
5	Wages & Salary Allocator			-	Attachment-O Page 4 line 16
6	Net Plant Allocator		1.00		Attachment-O Page 2 line 6
7	Total Plant Allocator	1.00			100%
8	ADIT True-Up Total	74,138	-	-	74,138 Enter as negative Attachment-O, page 2, line 22

	(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Balance	(e) Transmission	(f) Plant Related	(g) Labor Related
ADIT-282							
9	Balance-BOY (Attach 8c, Line 30)	December	2020	(23,684.00)	(23,684.00)	-	-
10	Balance-EOY (Attach 8d, Line 30 less Line 26)	December	2021	-	-	-	-
11	Balance-EOY-Prorated (Attach 8f, Line 14)	December	2021	(85,630.00)	45,962.59	-	-
12	Balance-EOY-Total (Lines 10+11)			(85,630.00)	45,962.59	-	-
ADIT-283							
13	Balance-BOY (Attach 8c, Line 44)	December	2020	(163,885)	(163,885)	-	-
14	Balance-EOY (Attach 8d, Line 44 less Line 40)	December	2021	-	-	-	-
15	Balance-EOY-Prorated (Attach 8f, Line 28)	December	2021	138,122	-	-	-
16	Balance-EOY-Total (Lines 14+15)			138,122	-	-	-
ADIT-190							
17	Balance-BOY (Attach 8c, Line 18)	December	2020	187,569	187,569	-	-
18	Balance-EOY (Attach 8d, Line 18 less Line 14)	December	2021	-	-	-	-
19	Balance-EOY-Prorated (Attach 8f, Line 42)	December	2021	(52,492)	28,176	-	-
20	Balance-EOY-Total (Lines 18+19)			(52,492)	28,176	-	-

## Attachment 8f - Accumulated Deferred Income Taxes (ADIT) Proration Worksheet (True-up)

GridLiance Heartland LLC

For the 12 months ended 12/31/2021

(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Weighting for Projection	Transmission								
				(e) Monthly Increment	(f) Proration (d) x (e)	(g) Prorated Projected Balance (Cumulative Sum of f)	(h) Actual Monthly Activity	(i) Difference between projected and actual activity (h)-(e)	(j) Partially prorate actual activity above Monthly projection	(k) Partially prorate actual activity below Monthly projection but increases ADIT	(l) Partially prorate actual activity below Monthly projection and is a reduction to ADIT	(m) Partially prorated actual balance
ADIT-282-Proration-Note A												
1 Balance (Attach 8c, Line 30)	December	2020	100.00%			(23,684)						-
2 Increment	January	2021	91.78%	(7,136)	(6,549)	(30,233)	-	7,136	7,136	-	-	587
3 Increment	February	2021	84.11%	(7,136)	(6,002)	(36,235)	-	7,136	7,136	-	-	1,720
4 Increment	March	2021	75.62%	(7,136)	(5,396)	(41,631)	-	7,136	7,136	-	-	3,460
5 Increment	April	2021	67.40%	(7,136)	(4,809)	(46,440)	-	7,136	7,136	-	-	5,787
6 Increment	May	2021	58.90%	(7,136)	(4,203)	(50,644)	-	7,136	7,136	-	-	8,719
7 Increment	June	2021	50.68%	(7,136)	(3,617)	(54,261)	-	7,136	7,136	-	-	12,238
8 Increment	July	2021	42.19%	(7,136)	(3,011)	(57,271)	-	7,136	7,136	-	-	16,364
9 Increment	August	2021	33.70%	(7,136)	(2,405)	(59,676)	-	7,136	7,136	-	-	21,095
10 Increment	September	2021	25.48%	(7,136)	(1,818)	(61,494)	-	7,136	7,136	-	-	26,412
11 Increment	October	2021	16.99%	(7,136)	(1,212)	(62,706)	-	7,136	7,136	-	-	32,336
12 Increment	November	2021	8.77%	(7,136)	(626)	(63,332)	-	7,136	7,136	-	-	38,846
13 Increment	December	2021	0.27%	(7,136)	(20)	(63,351)	-	7,136	7,136	-	-	45,963
14 ADIT 282-Prorated EOY Balance				(85,630)	(39,667)		-	85,630	85,630	-	-	
ADIT-283-Proration-Note B												
15 Balance (Attach 8c, Line 44)	December	2020	100.00%			(163,885)						-
16 Increment	January	2021	91.78%	11,510	10,564	(153,321)	-	(11,510)	-	10,564	10,564	-
17 Increment	February	2021	84.11%	11,510	9,681	(143,640)	-	(11,510)	-	9,681	9,681	-
18 Increment	March	2021	75.62%	11,510	8,704	(134,936)	-	(11,510)	-	8,704	8,704	-
19 Increment	April	2021	67.40%	11,510	7,758	(127,179)	-	(11,510)	-	7,758	7,758	-
20 Increment	May	2021	58.90%	11,510	6,780	(120,399)	-	(11,510)	-	6,780	6,780	-
21 Increment	June	2021	50.68%	11,510	5,834	(114,565)	-	(11,510)	-	5,834	5,834	-
22 Increment	July	2021	42.19%	11,510	4,856	(109,708)	-	(11,510)	-	4,856	4,856	-
23 Increment	August	2021	33.70%	11,510	3,879	(105,830)	-	(11,510)	-	3,879	3,879	-
24 Increment	September	2021	25.48%	11,510	2,933	(102,897)	-	(11,510)	-	2,933	2,933	-
25 Increment	October	2021	16.99%	11,510	1,955	(100,942)	-	(11,510)	-	1,955	1,955	-
26 Increment	November	2021	8.77%	11,510	1,009	(99,933)	-	(11,510)	-	1,009	1,009	-
27 Increment	December	2021	0.27%	11,510	32	(99,901)	-	(11,510)	-	32	32	-
28 ADIT 283-Prorated EOY Balance				138,122	63,984		-	(138,122)	-	63,984	63,984	
ADIT-190-Proration-Note C												
29 Balance (Attach 8c, Line 18)	December	2020	100.00%			187,569						360
30 Increment	January	2021	91.78%	(4,374)	(4,015)	183,554	-	4,374	4,374	-	-	1,055
31 Increment	February	2021	84.11%	(4,374)	(3,679)	179,875	-	4,374	4,374	-	-	2,121
32 Increment	March	2021	75.62%	(4,374)	(3,308)	176,567	-	4,374	4,374	-	-	3,547
33 Increment	April	2021	67.40%	(4,374)	(2,948)	173,619	-	4,374	4,374	-	-	5,345
34 Increment	May	2021	58.90%	(4,374)	(2,577)	171,042	-	4,374	4,374	-	-	7,502
35 Increment	June	2021	50.68%	(4,374)	(2,217)	168,825	-	4,374	4,374	-	-	10,031
36 Increment	July	2021	42.19%	(4,374)	(1,846)	166,980	-	4,374	4,374	-	-	12,931
37 Increment	August	2021	33.70%	(4,374)	(1,474)	165,505	-	4,374	4,374	-	-	16,191
38 Increment	September	2021	25.48%	(4,374)	(1,115)	164,391	-	4,374	4,374	-	-	19,822
39 Increment	October	2021	16.99%	(4,374)	(743)	163,648	-	4,374	4,374	-	-	23,813
40 Increment	November	2021	8.77%	(4,374)	(384)	163,264	-	4,374	4,374	-	-	28,176
41 Increment	December	2021	0.27%	(4,374)	(12)	163,252	-	4,374	4,374	-	-	
42 ADIT 190-Prorated EOY Balance				(52,492)	(24,317)		-	52,492	52,492	-	-	

**Note 1** Uses a 365 day calendar year.**Note 2** Actual end of year ADIT must be based solely on enacted tax law. No assumptions for future estimated changes in tax law may be forecasted.**A** Substantial portion, if not all, of the ADIT-282 balance is subject to proration. Explanation must be provided for any portion of balance not subject to proration.**B** Only amounts in ADIT-283 relating to Depreciation, if applicable, are subject to proration. See Line 44 in Attach 8c and 8d.**C** Only amounts in ADIT-190 related to net operating loss carryforwards, if applicable, are subject to proration. See Line 18 in Attach 8c and 8d.

GridLiance Heartland LLC

For the 12 months ended 12/31/2021

[illegible]

GridLiance Heartland LLC

For the 12 months ended 12/31/2021

[illegible]

Attachment 10 Income Tax Allowance GridLiance Heartland LLC Calculation of Effective Tax Rate												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Line No.	Description	Note	Source	Corporations - Including C Corps	S Corps, PTEs	Individuals (including foreign), estates & trusts	Mutual funds	Trusts	UBTI entities - pension funds, IRA, Keogh Plans	Tax Exempt Entities	Average Income Tax Rate (Sum Cols. 5- 11)	Total (Sum Cols. 5- 11)
(a)				(b)		(c)	(d)	(e)	(f)	(h)	(i)	
1	FIT = Weighted Marginal Federal Income Tax Rate	Note A		21.00%	29.60%	29.60%	15.00%	21.00%	21.00%	0.00%		
2	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	47.16%	0.00%	0.00%	0.00%	0.00%	6.10%	46.74%		
3	Weighted Average Federal Income Tax Rate		(Line 1 * Line 2)	9.90%	0.00%	0.00%	0.00%	0.00%	1.28%	0.00%	11.18%	
4	SIT = Weighted Marginal State Income Tax Rate	Note A	(Page 2, Col. (5), Line 6)	8.81%	8.81%	8.81%	8.81%	8.81%	8.81%	0.00%		
5	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	47.16%	0.00%	0.00%	0.00%	0.00%	6.10%	46.74%		
6	Weighted Average State Income Tax Rate		(Line 4 * Line 5)	4.16%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	4.69%	
7	p = Weighted Average State Income Tax Rate Value of Federal Tax Deductibility	Note B	(Page 2, Col. 56, Line 6 )	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
8	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	47.16%	0.00%	0.00%	0.00%	0.00%	6.10%	46.74%		
9	Weighted Average X		(Line 7 * Line 8)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Projected Distributive Share of Income from Transmission Investment	Note C	(Col. 10, Lines 37 - 43)	47.12%	0.00%	0.07%	0.00%	0.00%	6.10%	46.71%		100.00%
11	Income Tax Allowance (ITA)	Note D	(Line 10, Col. (13) - Col. (11))									53.29%
12	Composite Income Tax Rate (T=SIT * (1-FIT) + FIT - (p * FIT))		@ ITA = 53.29%	13.65%	0.00%	0.00%	0.00%	0.00%	1.81%	0.00%	15.46%	
13	Private Equity (PE) Investment Ownership of GridLiance Heartland LLC (GLH)	Note F		49.60%	46.20%	0.40%	1.90%	1.90%				100.00%
	Ownership of Funds by FERC Categories of Investors	Note F		BCP VI	BEP II/ILF	BCP VI SBS	BEP II SBS	BTAS				
14	Corporations - Including C Corps	Note F		49.15%	49.30%	0.00%	0.00%	0.00%				19.69%
15	S Corps, PTEs	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
16	Individuals (including foreign), estates & trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
17	Mutual funds	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
18	Trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
19	UBTI entities - pension funds, IRA, Keogh Plans	Note F		6.44%	6.29%	0.00%	0.00%	0.00%				2.55%
20	Tax Exempt Entities	Note F		44.41%	44.41%	100.00%	100.00%	100.00%				77.76%
21				100.00%	100.00%	100.00%	100.00%	100.00%				100.00%
22												
23												
24	Weighted Average PE Ownership of GLH by FERC Categories of Investors			BCP VI	BEP II/ILF	BCP VI SBS	BEP II SBS	BTAS				
25	Corporations - Including C Corps		(Line 13 * Line 14)	24.38%	22.78%	0.00%	0.00%	0.00%				47.16%
26	S Corps, PTEs		(Line 13 * Line 15)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
27	Individuals (including foreign), estates & trusts		(Line 13 * Line 16)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
28	Mutual funds		(Line 13 * Line 17)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
29	Trusts		(Line 13 * Line 18)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
30	UBTI entities - pension funds, IRA, Keogh Plans		(Line 13 * Line 19)	3.19%	2.91%	0.00%	0.00%	0.00%				6.10%
31	Tax Exempt Entities		(Line 13 * Line 20)	22.03%	20.52%	0.40%	1.90%	1.90%				46.74%
32				49.60%	46.20%	0.40%	1.90%	1.90%				100.00%
33												
34												
35												
36												
37												
38				Corporations - Including C Corps	47.16%		Corporations (feeder LP)	47.12%	47.12%			
39				S Corps, PTEs	0.00%		S Corps, PTEs	0.00%	0.00%			
40				Individuals (including foreign), estates & trusts	0.00%		Individuals	0.00%	0.07%			
41				Mutual funds	0.00%		Mutual Funds	0.00%	0.00%			
42				Trusts	0.00%		Trusts	0.00%	0.00%			
43				UBTI entities - pension funds, IRA, Keogh Plans	6.10%		UBTI Entities	6.10%	6.10%			
44				Tax Exempt Entities	46.74%		Non-Taxpaying Entities	46.71%	46.71%			
45					100.00%		Private Equity Ownership (Note E)	99.93%	100.00%			
46							Separate Individual Ownership (Note F)	0.07%				
								100.00%				

Notes:

A Represents the weighted average federal or state tax rate for each category of partners. Support to be provided for the use of any marginal federal income tax rate that differs from any applicable presumptive marginal federal income tax rates that have been adopted by the Commission.

B From Page 2 below.

C Calculation of ownership by category of investor.

D Income Tax Allowance (ITA) equals one less the ownership percentage of tax exempt entities and is based upon the Commission's order in Docket Nos. ER18-2342, EL19-29, and ER19-2488.

E One (1) minus Separate Individual Ownership (Line 45).

F Based on GLH records.

Attachment 10 Income Tax Allowance GridLiance Heartland LLC						
(1)	(2)	(3)	(4)	(5)	(6)	
Line No.	State	Apportionment based on situs gross plant	State Income Tax Rate	Percent Federal Taxes Deductible	Weighted Rate (Col. 2 * Col. 3)	Weighted Rate for Impact of Federal Tax Deductibility (Col. 2 * Col. 4)
1	Illinois	72.47%	9.50%	0.00%	6.88%	0.00%
2	Kentucky	27.53%	7.00%	0.00%	1.93%	0.00%
3	State 3	0.00%	0.00%	0.00%	0.00%	0.00%
4	State 4	0.00%	0.00%	0.00%	0.00%	0.00%
5	State 5	0.00%	0.00%	0.00%	0.00%	0.00%
6	Total Weighted Average				8.81%	0.00%

Attachment 10a Actual ownership GridLiance Heartland LLC For Informational Purposes Only												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
				Corporations - Including C Corps	S Corps, PTEs	Individuals (including foreign), estates & trusts	Mutual funds	Trusts	UBTI entities - pension funds, IRA, Keogh Plans	Tax Exempt Entities	Average Income Tax Rate (Sum Cols. 5- 11)	Total (Sum Cols. 5- 11)
Line No.	Description	Note	Source	(b)	(c)	(c)	(d)	(e)	(f)	(h)	(i)	
a)												
1	FIT = Weighted Marginal Federal Income Tax Rate	Note A		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
3	Weighted Average Federal Income Tax Rate		(Line 1 * Line 2)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	SIT = Weighted Marginal State Income Tax Rate	Note A	(Page 2, Col. (5), Line 6)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
5	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
6	Weighted Average State Income Tax Rate		(Line 4 * Line 5)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	p = Weighted Average State Income Tax Rate Value of Federal Tax Deductibility	Note B	(Page 2, Col. 56, Line 6 )	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
8	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
9	Weighted Average X		(Line 7 * Line 8)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Projected Distributive Share of Income from Transmission Investment	Note C	(Col. 10, Lines 37 - 43)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%
11	Income Tax Allowance (ITA)	Note D	(Line 10, Col. (13) - Col. (11))									0.00%
12	Composite Income Tax Rate [T=SIT * (1-FIT) + FIT - (p * FIT)]		@ ITA = 0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Private Equity (PE) Investment Ownership of GridLiance Heartland LLC (GLH)	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
14	Ownership of Funds by FERC Categories of Investors	Note F		BCP VI	BEP II/ILF	BCP VI SBS	BEP II SBS	BTAS				
15	Corporations - Including C Corps	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
16	S Corps, PTEs	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
17	Individuals (including foreign), estates & trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
18	Mutual funds	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
19	Trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
20	UBTI entities - pension funds, IRA, Keogh Plans	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
21	Tax Exempt Entities	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
22				0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
23												
24	Weighted Average PE Ownership of GLH by FERC Categories of Investors			BCP VI	BEP II/ILF	BCP VI SBS	BEP II SBS	BTAS				
25	Corporations - Including C Corps		(Line 13 * Line 14)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
26	S Corps, PTEs		(Line 13 * Line 15)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
27	Individuals (including foreign), estates & trusts		(Line 13 * Line 16)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
28	Mutual funds		(Line 13 * Line 17)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
29	Trusts		(Line 13 * Line 18)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
30	UBTI entities - pension funds, IRA, Keogh Plans		(Line 13 * Line 19)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
31	Tax Exempt Entities		(Line 13 * Line 20)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
32				0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
33												
34												
35												
36												
37												
38				Corporations - Including C Corps	0.00%	Corporations (feeder LP)	0.00%	0.00%	0.00%			
39				S Corps, PTEs	0.00%	S Corps, PTEs	0.00%	0.00%	0.00%			
40				Individuals (including foreign), estates & trusts	0.00%	Individuals	0.00%	0.00%	0.00%			
41				Mutual funds	0.00%	Mutual Funds	0.00%	0.00%	0.00%			
42				Trusts	0.00%	Trusts	0.00%	0.00%	0.00%			
43				UBTI entities - pension funds, IRA, Keogh Plans	0.00%	UBTI Entities	0.00%	0.00%	0.00%			
44				Tax Exempt Entities	0.00%	Non-Taxpaying Entities	0.00%	0.00%	0.00%			
45					0.00%	Private Equity Ownership (Note E)	0.00%	0.00%	0.00%			
46						Separate Individual Ownership (Note F)	0.00%	0.00%				

Notes:

A Represents the weighted average federal or state tax rate for each category of partners. Support to be provided for the use of any marginal federal income tax rate that differs from any applicable presumptive marginal federal income tax rates that have been adopted by the Commission.

B From Page 2 below.

C Calculation of ownership by category of investor.

D Upon request, GridLiance Heartland will provide any relevant ownership agreements to support the ownership categories and associated inputs used to calculate GridLiance Heartland's income tax liability

E Upon request, GridLiance Heartland will provide supporting documents, including tax returns or, where the federal income tax rate is concerned, notice that GridLiance Heartland elected to take the 20 percent deduction available to pass-through entities.

F Based on GLH records.

Attachment 10a Actual ownership GridLiance Heartland LLC						
(1)	(2)	(3)	(4)	(5)	(6)	
Line No.	State	Apportionment based on situs gross plant	State Income Tax Rate	Percent Federal Taxes Deductible	Weighted Rate (Col. 2 * Col. 3)	Weighted Rate for Impact of Federal Tax Deductibility (Col. 2 * Col. 4)
1	State 1	0.00%	0.00%	0.00%	0.00%	0.00%
2	State 2	0.00%	0.00%	0.00%	0.00%	0.00%
3	State 3	0.00%	0.00%	0.00%	0.00%	0.00%
4	State 4	0.00%	0.00%	0.00%	0.00%	0.00%
5	State 5	0.00%	0.00%	0.00%	0.00%	0.00%
6	Total Weighted Average				0.00%	0.00%

Attachment 1 (Note J)  
Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

Page 1 of 3

To be completed in conjunction with Attachment O - GLH.  
(inputs from Attachment O - GLH are rounded to whole dollars)

Line No.	(1)	(2) Source Page, Line, Col.	(3) Transmission	(4) Allocator
1	Gross Transmission Plant - Total	Attach O, p 2, line 2 col 5 (Note A)	28,075,665	
1a	Transmission Accumulated Depreciation	Attach O, p 2, line 8 col 5	13,207,324	
1b	CWIP, Regulatory Asset, Abandoned Plant	Attach O, p 2, lines 18a, 23a & 23b (Note B)	-	
2	Net Transmission Plant - Total	Line 1 minus Line 1a plus Line 1b	14,868,341	
	O&M TRANSMISSION EXPENSE			
3	Total O&M Allocated to Transmission	Attach O, p 3, line 8 col 5	2,754,237	
3a	Transmission O&M	Attach O, p 3, line 1 col 5	4,538,738	
3b	Less: Ancillary Service Expenses included in above	Attach O, p 3, line 1a col 5	1,784,502	
3c	Less: Account 565 included in above, if any	Attach O, p 3, line 2 col 5, if any	-	
3d	Less: Account 566 Amort of Reg Asset included in 3a, if any	Attach O, p 3, line 7b col 5, if any	-	
3e	Adjusted Transmission O&M	Line 3a minus Lines 3b thru 3d	2,754,237	
4	<b>Annual Allocation Factor for Transmission O&amp;M</b>	(Line 3e divided by line 1, col 3)	<b>0.10</b>	<b>0.10</b>
	OTHER O&M EXPENSE			
4a	Other O&M Allocated to Transmission	Line 3 minus Line 3e	-	
4b	Annual Allocation Factor for Other O&M	Line 4a divided by Line 1, col 3	-	-
	GENERAL, INTANGIBLE AND COMMON (G, I & C) DEPRECIATION EXPENSE			
5	Total G, I & C Depreciation Expense	Attach O, p 3, lines 10 & 11, col 5 (Note G)	-	
6	Annual Allocation Factor for G, I & C Depreciation Expense	(line 5 divided by line 1 col 3)	-	-
	TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attach O, p 3, line 20 col 5	184,553	
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1 col 3)	0.01	0.01
9	<b>Annual Allocation Factor for Other Expense</b>	<b>Sum of line 4b, 6, and 8</b>	<b>0.01</b>	<b>0.01</b>
	INCOME TAXES			
10	Total Income Taxes	Attach O, p 3, line 27 col 5	174,986	
11	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2 col 3)	0.01	0.01
	RETURN			
12	Return on Rate Base	Attach O, p 3, line 28 col 5	1,094,871	
13	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2 col 3)	0.07	0.07
14	<b>Annual Allocation Factor for Return</b>	<b>Sum of line 11 and 13 col 4</b>		<b>0.09</b>



Attachment 1 (Note J)  
Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
Line No.	Project Name	MTEP # or Other Designation	Project Gross Plant	Project Accumulated Depreciation/Amortization	Transmission O&M Annual Allocation Factor	Annual Allocation for Transmission O&M Expense	Annual Allocation Factor for Other Expense	Annual Allocation for Other Expense	Annual Expense Charge	Project Net Plant	
15	(Note C)				Page 1 line 4	Col. 3 * Col. 5	Page 1 line 9	Col. 3 * Col. 7	Col. 6 + Col. 8)	(Note D)	
15a		-	-	-	13,207,323.75	0.10	-	0.01	-	-	(13,207,324)
15b		-	-	-	-	0.10	-	0.01	-	-	-
15c		-	-	-	-	0.10	-	0.01	-	-	-
15d		-	-	-	-	0.10	-	0.01	-	-	-
15e		-	-	-	-	0.10	-	0.01	-	-	-
15f		-	-	-	-	0.10	-	0.01	-	-	-
15g		-	-	-	-	0.10	-	0.01	-	-	-
15h		-	-	-	-	0.10	-	0.01	-	-	-
15i		-	-	-	-	0.10	-	0.01	-	-	-
15j		-	-	-	-	0.10	-	0.01	-	-	-
15k		-	-	-	-	0.10	-	0.01	-	-	-
15l		-	-	-	-	0.10	-	0.01	-	-	-
15m		-	-	-	-	0.10	-	0.01	-	-	-
15n		-	-	-	-	0.10	-	0.01	-	-	-
15o		-	-	-	-	0.10	-	0.01	-	-	-
		-	-	-	-	0.10	-	0.01	-	-	-
	-	-	-	-	0.10	-	0.01	-	-	-	
	-	-	-	-	0.10	-	0.01	-	-	-	
	-	-	-	-	0.10	-	0.01	-	-	-	
16	Annual Totals	-	-	13,207,324	-	-	-	-	-	(13,207,324)	

17 Rev. Req. Adj For Attachment O

18 Incentives from Projects other than those in Attachment GG- GLH and Attachment MM\_GLH

Note  
Letter

- A Gross Transmission Plant that is included on page 2 line 2 of Attachment O-GLH (see line 1 col (3)).
- B Inclusive of any CWIP, unamortized abandoned plant and unamortized project-related regulatory asset included in rate base when authorized by FERC order. Excludes start-up regulatory asset (see line 1b, col. (3)).
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1. This value includes subsequent capital investments required to maintain the facilities to their original capabilities. Gross plant does not include any CWIP, unamortized abandoned plant or any regulatory asset (see line 15, col. (3)).
- D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation in col (4). Net Plant includes any CWIP in rate base, any project related regulatory asset and any Unamortized Abandoned Plant approved by the Commission (see line 15, col. (10)). Net plant does not include start-up regulatory asset.
- E Project Depreciation Expense is the actual value booked in Attachment O-GLH, Page 3, line 9 that is associated with the specified project. Project Depreciation Expense includes the amortization of Abandoned Plant. However, if FERC grants accelerated depreciation for a project the depreciation rate authorized by FERC will be used instead of the rates shown on Attachment 6 for all other projects. Line 15, Col. (13). Includes project related regulatory assets.
- F Project True-Up Adjustment is calculated on the Attachment GG - GLH and Attachment MM - GLH True-Up Template (see col. K). For projects other than Attachment GG or MM, the Project True-up Adjustment is calculated on Attachment 3.
- G The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in Line 15, col. 13.
- H A Competitive Bid Concession reflects any commitment by GLH to MISO to charge less than GLH's Ceiling Rate, regardless of how that Competitive Bid Concession is calculated. For each project, the amount of the Competitive Bid Concession will be zero or a reduction to the annual transmission revenue requirement in one or more years. GLH will include, as part of its Annual Update, (i) an explanation of the basis for any Competitive Bid Concession, (ii) a calculation of the Competitive Bid Concession, and (iii) any documentation needed to support the calculation of the Competitive Bid Concession. The amount in Column 17 above equals the amount by which the annual revenue requirement is reduced from the ceiling rate (see line 15 col. (17)).
- I Requires approval by FERC of incentive return applicable to the specified project(s) (see line 15, col. (15)).
- J This Attachment 1 is a reconciliation or summary of Attachment GG - GLH and Attachment MM - GLH. The actual calculations for Attachment GG and MM projects used in developing rates will be those calculated in Attachment GG - GLH and Attachment MM - GLH. Attachment 1 may also consist of other projects, such as those which have received FERC approval for an incentive adder but are not Attachment GG or MM projects. The incentives associated with those projects will be added to the Attachment O-GLH revenue requirement on Attachment O, page 3, line 30b.

Attachment 1 (Note J)  
Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

[illegible]

Formula Rate - Non-Levelized		Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		Attachment O-GLH Page 1 of 5 For the 12 months ended 12/31/2021	
Line No.	(1)	(2) Source	(3)	(4)	(5) Allocated Amount
1	GROSS REVENUE REQUIREMENT	(Page 3, Line 31)			\$ 4,266,235
	REVENUE CREDITS	(Note S)	Total	Allocator	
2	Account No. 454	(Page 4, Line 34)	-	DA 1.00	-
2a	Account No. 456	(Page 4, Line 34a)	-	DA 1.00	-
3	Account No. 456.1	(Page 4, Line 37)	75,000.00	DA 1.00	75,000
4	Revenues from Grandfathered Interzonal Transactions	(Note R)	-	DA 1.00	-
5	Revenues from service provided by the ISO at a discount	MISO invoices	-	DA 1.00	-
6	TOTAL REVENUE CREDITS	(Sum of Lines 2 through 5)			75,000
6a	Adjustment to make Line 6b equal to zero if there is no revenue requirement associated with Schedules 7, 8 & 9				-
6b	NET REVENUE REQUIREMENT	(Line 1 minus Lines 6 & 6a) (Note KK)			\$ 4,191,235
6c	Attachment O-GLH True-up Adjustment with Interest	Attachment 3, Page 1, Line 3, Col. (G)	-	DA 1.00	-
7	NET REVENUE REQUIREMENT	(Line 6b plus Line 6c)			\$ 4,191,235
	DIVISOR				
8	Average of 12 coincident system peaks for requirements (RQ) service			(Note A)	-
9	Plus 12 CP of firm bundled sales over one year not in Line 8			(Note B)	-
10	Plus 12 CP of Network Load not in Line 8			(Note C)	-
11	Less 12 CP of firm P-T-P over one year (enter negative)			(Note D)	-
12	Plus Contract Demand of firm P-T-P over one year				-
13	Less Contract Demand from Grandfathered Interzonal Transactions over one year (enter negative)			(Note R)	-
14	Less Contract Demands from service over one year provided by ISO at a discount (enter negative)				-
15	Divisor (sum Lines 8-14)				-
16	Annual Cost (\$/kW/Yr)	(Line 7 / Line 15)	-		
17	Network & P-to-P Rate (\$/kW/Mo)	(Line 16 / 12)	-		
			Peak Rate	Off-Peak Rate	
18	Point-To-Point Rate (\$/kW/Wk)	(Line 16 / 52; Line 16 / 52)	-		-
19	Point-To-Point Rate (\$/kW/Day)	(Line 16 / 260; Line 16 / 365)	-	Capped at weekly rate	-
20	Point-To-Point Rate (\$/MWh)	(Line 16 / 4,160; Line 16 / 8,760 times 1,000)	-	Capped at weekly and daily rates	-
21	FERC Annual Charge(\$/MWh)	(Note E)	-	Short Term	- Short Term
22			-	Long Term	- Long Term

Formula Rate - Non-Levelized

Rate Formula Template  
Utilizing FERC Form 1 Data  
GridLiance Heartland LLC

For the 12 months ended 12/31/2021

(1)	(2)	(3)	(4)	(5)
Line No.	Source	Company Total	Allocator (Note JJ)	Transmission (Col 3 times Col 4)
<b>RATE BASE: (Notes Y &amp; BB)</b>				
GROSS PLANT IN SERVICE				
1	Production	-	NA	-
2	Transmission	28,075,665	TP	0.77
3	Distribution	-	NA	-
4	General & Intangible	-	W/S	0.77
5	Common	-	CE	0.77
6	TOTAL GROSS PLANT	28,075,665	GP=	0.77
ACCUMULATED DEPRECIATION				
7	Production	-	NA	-
8	Transmission	13,207,324	TP	0.77
9	Distribution	-	NA	-
10	General & Intangible	-	W/S	0.77
11	Common	-	CE	0.77
12	TOTAL ACCUM. DEPRECIATION	13,207,324		
NET PLANT IN SERVICE				
13	Production	-		-
14	Transmission	14,868,341		11,378,980
15	Distribution	-		-
16	General & Intangible	-		-
17	Common	-		-
18	TOTAL NET PLANT	14,868,341	NP=	0.77
18a	CWIP Approved by FERC Order	-	DA	1.00
ADJUSTMENTS TO RATE BASE				
19	Reserved	-	NA	zero
20	Reserved	-	NA	zero
21	Reserved	-	NA	zero
22	ADIT	(0)	NP	0.77
23	Account No. 255 (enter negative)	-	NP	0.77
23a	Unamortized Regulatory Asset	-	DA	1.00
23b	Unamortized Abandoned Plant	-	DA	1.00
23c	Unfunded Reserves (enter negative)	-	DA	1.00
24	TOTAL ADJUSTMENTS	(0)		(0)
25	LAND HELD FOR FUTURE USE	-	TP	0.77
WORKING CAPITAL				
26	CWC	861,822		659,566
27	Materials & Supplies	328,467	TP	0.77
28	Prepayments (Account 165)	607,450	GP	0.77
29	TOTAL WORKING CAPITAL	1,797,740		1,375,839
30	RATE BASE	16,666,081		12,754,819

Formula Rate - Non-Levelized		Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		For the 12 months		
(1)		(2)	(3)	(4)	(5)	
Line No.	Source	Company Total	Allocator (Note JJ)	Transmission (Col 3 times Col 4)		
O&M						
1	Transmission	(Note CC)				
	Less Ancillary Service Expenses included in Transmission O&M	Attachment 5, Line 13, Col. (a)	4,538,738	TP	0.77	3,473,569
1a	Accounts (Note U)	Attachment 5, Line 13, Col. (f)	1,784,502	TP	0.77	1,365,708
1b	Less Account 566	Attachment 5, Line 13, Col. (b)	-	TP	0.77	-
2	Less Account 565	Attachment 5, Line 13, Col. (c)	-	TP	0.77	-
3	A&G	Attachment 5, Line 13, Col. (d)	4,140,338	W/S	0.77	3,168,667
4	Less FERC Annual Fees	Attachment 5, Line 13, Col. (e)	-	W/S	0.77	-
5	Less EPRI & Reg. Comm. Exp. & Non-safety Ad.	(Note I) Attachment 5, Line 13, Col. (f)	-	W/S	0.77	-
5a	Plus Transmission Related Reg. Comm. Exp.	(Note I) Attachment 5, Line 13, Col. (g)	-	TP	0.77	-
5b	Less PBOP Expense in Year	Attachment 7, Line 6	-	W/S	0.77	-
5c	Plus PBOP Expense Allowed Amount	Attachment 7, Line 8	-	W/S	0.77	-
6	Common	356.1	-	CE	0.77	-
7	Transmission Lease Payments	Attachment 5, Line 13, Col (h)	-	DA	1.00	-
7a	Account 566					
7b	Amortization of Regulatory Asset	(Note GG) Attachment 5, Line 13, Col. (i)	-	DA	1.00	-
7c	Miscellaneous Transmission Expense (less Amortization of Regulatory Asset)	Attachment 5, Line 13, Col. (j)	-	TP	0.77	-
7d	Total Account 566	(Line 7b plus Line 7c) Ties to 321.97.b	-			-
8	TOTAL O&M	(Sum of Lines 1, 3, 5a, 5c, 6, 7, & 7d less Lines 1a, 1b, 2, 4, 5, & 5b)	6,894,575			5,276,529
DEPRECIATION EXPENSE						
9	Transmission	(Note BB)				
		Attachment 5, Line 13, Col. (k)	562,296	TP	0.77	430,334
10	General & Intangible	Attachment 5, Line 26, Col. (a)	-	W/S	0.77	-
11	Common	Attachment 5, Line 26, Col (l)	-	CE	0.77	-
11a	Amortization of Abandoned Plant	(Notes X & FF) Attachment 5, Line 26, Col. (b)	-	DA	1.00	-
12	TOTAL DEPRECIATION	(Sum of Lines 9 through 11a)	562,296			430,334
TAXES OTHER THAN INCOME TAXES						
(Note J)						
LABOR RELATED						
13	Payroll	Attachment 5, Line 26, Col. (c)	-	W/S	0.77	-
14	Highway and vehicle	Attachment 5, Line 26, Col. (d)	-	W/S	0.77	-
PLANT RELATED						
16	Property	Attachment 5, Line 26, Col. (e)	184,553	GP	0.77	141,241
17	Gross Receipts	Attachment 5, Line 26, Col. (f)	-	NA	zero	-
18	Other	Attachment 5, Line 26, Col. (g)	-	GP	0.77	-
19	Payments in lieu of taxes	Attachment 5, Line 26, Col. (h)	-	GP	0.77	-
20	TOTAL OTHER TAXES	(Sum of Lines 13 through 19)	184,553			141,241
INCOME TAXES						
		(Note K)				
21	T=SIT * (1-FIT) + FIT - (p*FIT)	(Note K) (Attachment 9, Col. 12, Line 12)	0.1546			
22	CIT=(T/1-T) * (1-(WCLTD/R)) = FIT, SIT & p	WCLTD = Page 4, Line 27; R = Page 4, Line 30	0.1600			
		(Note K)				
23	1 / (1 - T) = (from Line 21)	1 / (1 - T) (T from Line 21)	1.1828			
24	Amortized Investment Tax Credit	(enter negative) Attachment 5, Line 26, Col. (i)	-			
24a	Excess Deferred Income Taxes	(enter negative) Attachment 5, Line 26, Col. (j)	-			
24b	Tax Effect of Permanent Differences	Attachment 5, Line 26, Col. (k) (Note II)	1,159			
25	Income Tax Calculation	(Line 22) times (Page 4, Line 30) times (Page 2, Line 30)	192,344			147,204
26	ITC adjustment	(Line 23 times Line 24)	-	NP	0.77	-
26a	Excess Deferred Income Tax Adjustment	(Line 23 times Line 24a)	-	NP	0.77	-
26b	Permanent Differences Tax Adjustment	(Line 23 times Line 24b)	1,371	NP	0.77	1,049
27	Total Income Taxes	(Sum of Lines 25 through 26b)	193,715			148,253
RETURN						
28	Rate Base times Return	(Page 2, Line 30 times Page 4, Line 30, Col. (5))	1,201,958	NA		919,878
29	REV. REQUIREMENT	(Sum of Lines 8, 12, 20, 27 & 28)	9,037,096			6,916,235
30	LESS ATTACHMENT GG ADJUSTMENT [Attachment GG-GLH, Pag (Note V) [Revenue Requirement for facilities included on Page 2, Lines 2, 18a, 23a, & 23b and also included in Attachment GG]		-	DA	1.00	-
30a	LESS ATTACHMENT MM ADJUSTMENT [Attachment MM-GLH, Pt (Note Z) [Revenue Requirement for facilities included on Page 2, Lines 2, 18a, 23a, & 23b and also included in Attachment MM]		-	DA	1.00	-
30b	Plus Incentives on Attachment 1 for projects other than those included in Attachment 1, line 18 Attachment MM-GLH and Attachment GG-GLH.		-			-
30c	Plus: Regulatory Adjustment	(Note OO)	(2,650,000)	DA	1.00	(2,650,000)
31	REV. REQUIREMENT TO BE COLLECTED UNDER ATTACHMENT O (Line 29 - Line 30 - Line 30a + Line 30b + Line 30c)		6,387,096			4,266,235

Formula Rate - Non-Levelized		Rate Formula Template Utilizing FERC Form 1 Data GridLiance Heartland LLC		For the 12 months ended 12/31/2021					
(1)		(2)		(3)		(4)		(5)	
SUPPORTING CALCULATIONS AND NOTES									
Line No.	TRANSMISSION PLANT INCLUDED IN ISO RATES								
1	Total Transmission plant	(Page 2, Line 2, Column 3)						28,075,665	
2	Less Transmission plant excluded from ISO rates	(Note L)						6,588,908	
3	Less Transmission plant included in OATT Ancillary Services	(Note M)							
4	Transmission plant included in ISO rates	(Line 1 minus Lines 2 & 3)						21,486,757	
5	Percentage of Transmission plant included in ISO Rates	(Line 4 divided by Line 1)				TP=		76.5%	
6 - 11 WAGES & SALARY ALLOCATOR (W&S)									
		Form 1 Reference	\$	TP		Allocation			
12	Production	354.20.b	-	-		-			
13	Transmission (Note MM)	354.21.b	1	0.77		1			
14	Distribution	354.23.b	-	-		-	GP		
15	Other	354.24,25,26.b	-	-		-	(\$ / Allocation)		
16	Total (sum lines 12-15) [ If there are no labor dollars, input \$1 on line 13 which is then multiplied by the TP allocator on line 13]		1			1 =	0.77 = WS		
COMMON PLANT ALLOCATOR (CE) (Notes N and DD)									
			\$			% Electric	W&S Allocator		
17	Electric	200.3.c	30,658,757			(Line 17 / Line 20)	(Line 16)	CE	
18	Gas	200.3.d	-			1.00000 *	0.76532	=	0.76532
19	Water	200.3.e	-						
20	Total	(Sum of Lines 17 through 19)	30,658,757						
21 - 26 RETURN (R)									
			\$	%		Cost			
27	Long Term Debt	(Note Y, EE) Attachment 5, Line 34	0	40%		2.25%	0.90%	=WCLTD	
28	Preferred Stock	(Note Y, EE) Attachment 5, Line 35	-	0%		0.00%	0.00%		
29	Common Stock	(Notes O, Y and EE) Attachment 5, Line 36	1	60%		10.52%	6.31%		
30	Total	(Sum of Lines 27 through 29)	1				7.21%	=R	
REVENUE CREDITS									
							Load		
	ACCOUNT 447 (SALES FOR RESALE)	310 -311							
31	a. Bundled Non-RQ Sales for Resale	311.x.h					-		
32	b. Bundled Sales for Resale included in Divisor on Page 1						-		
33	Total of (a)-(b)	(Note P)					-		
34	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY)	(Note Q)					-		
34a	ACCOUNT 456 (OTHER ELECTRIC REVENUES)	(Note NN)					-		
	ACCOUNT 456.1 (REVENUES FROM TRANSMISSION OF ELECTRICITY) (Note T)								
35	a. Transmission charges for all transmission transactions						75,000		
36	b. Transmission charges for all transmission transactions included in Divisor on Page 1						-		
36a	c. Transmission charges from Schedules associated with Attachment GG (Note W)						-		
36b	d. Transmission charges from Schedules associated with Attachment MM (Note AA)						-		
37	Total of (a)-(b)-(c)-(d)						75,000		

General Note: References to pages in this formulary rate are indicated as: (page#, line#, col#)  
References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)

Note	
Letter	
A	Peak as would be reported on Page 401, Column d of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Only MISO-related items are included.
B	Labeled LF, LU, IF, IU on Pages 310-311 of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Only MISO-related items are included.
C	Labeled LF on Page 328 of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Only MISO-related items are included.
D	Labeled LF on Page 328 of Form 1 at the time of the applicable pricing zone coincident monthly peaks. Only MISO-related items are included.
E	The FERC's annual charges for the year assessed the Transmission Owner for service under this formula rate. Only MISO-related items are included.
F	The balances in Accounts 190, 281, 282 and 283, as adjusted by any amounts in contra accounts identified as regulatory assets or liabilities related to FASB 106 or 109. Balance of Account 255 is reduced by prior flow through and excluded if the utility chose to utilize amortization of tax credits against taxable income. Account 281 is not allocated.
G	Identified in Form 1 as being only transmission related.
H	Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission at Page 3, Line 8, Column 5 less Page 3, Line 7a. Prepayments are the electric related prepayments booked to Account No. 165 and reported on Page 111 Line 57 in the Form 1.
I	Line 5 - EPRI Annual Membership Dues listed in Form 1 at 353.f, all Regulatory Commission Expenses itemized at 351.h, and non-safety related advertising included in Account 930.1. Line 5a - Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting itemized at 351.h.
J	Includes only FICA, unemployment, highway, property, gross receipts, and other assessments charged in the current year. Taxes related to income are excluded. Gross receipts taxes are not included in transmission revenue requirement in the Rate Formula Template, since they are recovered elsewhere.
K	The currently effective income tax rate, where FIT is the weighted average Federal income tax rate; SIT is the weighted average State income tax rate, and p = "the percentage of federal income tax deductible for state income taxes". If the utility is taxed in more than one state it must attach a work paper showing the name of each state and how the blended or composite SIT was developed. Furthermore, a utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f) multiplied by (1/(1-T)) (Page 3, Line 26). Excess Deferred Income Taxes reduce income tax expense by the amount of the expense multiplied by (T/(1-T)).
	Inputs Required:
	FIT = See Attachment 9 (Federal Income Tax Rate)
	SIT= See Attachment 9 (State Income Tax Rate or Composite SIT)
	p = See Attachment 9 (percent of federal income tax deductible for state purposes)
L	Removes transmission plant determined by Commission order to be state-jurisdictional according to the seven-factor test (until Form 1 balances are adjusted to reflect application of seven-factor test) or removes transmission plant that is not under MISO functional control.
M	Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to be included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.
N	Enter dollar amounts
O	ROE will be supported in the original filing and no change in ROE may be made absent a filing with FERC. A 50 basis point adder for RTO participation may be added to the ROE up to the upper end of the zone of reasonableness
P	Page 4, Line 33 must equal zero since all short-term power sales must be unbundled and the transmission component reflected in Account No. 456.1.
Q	Includes income related only to transmission facilities, such as pole attachments, rentals and special use, less any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.
R	Grandfathered agreements whose rates have been changed to eliminate or mitigate pancaking - the revenues are included in Line 4 Page 1 and the loads are included in Line 13, Page 1. Grandfathered agreements whose rates have not been changed to eliminate or mitigate pancaking - the revenues are not included in Line 4, Page 1 nor are the loads included in Line 13, Page 1. This line will exclude any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.
S	The revenues credited on Page 1, Lines 2-6 shall include only the amounts received directly (in the case of grandfathered agreements) or from the ISO (for service under this tariff) reflecting the Transmission Owner's integrated transmission facilities. They do not include revenues associated with FERC annual charges, gross receipts taxes, facilities not included in this template (e.g., direct assignment facilities and GSUs) which are not recovered under this Rate Formula Template. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.
T	Account 456.1 entry shall be the annual total of the quarterly values reported at Form 1, Page 330.x.n., less any amounts related to Non-MISO assets or services. For clarification, GLH commits to provide a workpaper itemizing each revenue source in order for interested parties to determine which revenues are related to MISO assets and services versus Non-MISO assets and services. Non-MISO assets are transmission assets not under MISO functional control.
U	Includes scheduling, system control and dispatch costs recorded in Accounts 561.1 through 561.3 and which are recovered in Schedule 1 or Schedule 24 rates. Also excludes Account 561.4 and Account 561.8.
V	Pursuant to Attachment GG of the MISO Tariff, removes dollar amount of the revenue requirements calculated pursuant to Attachment GG.
W	Removes from revenue credits revenue that are distributed pursuant to Schedules associated with Attachment GG of the MISO Tariff, since the Transmission Owner's Attachment O revenue requirements have already been reduced by the Attachment GG revenue requirements.
X	Page 2 Line 23b includes any unamortized balances related to the recovery of abandoned plant costs approved by FERC under a separate docket. Page 3, Line 11a includes the Amortization expense of abandonment costs. These are shown in the workpapers required pursuant to the Annual Rate Calculation and True-up Procedures.
Y	Calculate using 13 month average balance, reconciling to FERC Form No. 1 by Page, Line, and Column as shown in Attachment 4 for inputs on page 2 of 5 above, except ADIT, page 2, lines 19-22, which is on Attachment 8a or 8c and shown on Attachment 5. Calculate using 13 month average balance, reconciling to FERC Form No. 1 by Page, Line, and Column as shown in Attachment 5 for inputs on lines 27, 28 and 29 of page 4 of 5 above. For the first Rate Year, as defined in the Protocols, GLH will use thirteen months of balances in calculating the 13- month average for the determination of the projected net revenue requirement
Z	Pursuant to Attachment MM of the MISO Tariff, removes dollar amount of the revenue requirements calculated pursuant to Attachment MM.
AA	Removes from revenue credits revenues that are distributed pursuant to Schedules associated with Attachment MM of the MISO Tariff, since the Transmission Owner's Attachment O revenue requirements have already been reduced by the Attachment MM revenue requirements.
BB	Plant in Service, Accumulated Depreciation, and Depreciation Expense amounts exclude Asset Retirement Obligation amounts unless authorized by FERC.
CC	Schedule 10-FERC charges should not be included in O&M recovered under this Attachment O.
DD	Calculate using a simple average of beginning of year and end of year balances reconciling to FERC Form No. 1 by Page, Line and Column as shown in Column 2.
EE	Prior to obtaining long term debt, the cost of debt will be the average 3-month LIBOR for the year plus 2.0%. LIBOR refers to the London Inter Bank Offer Rate from the Federal Reserve Bank of St. Louis's <a href="https://fred.stlouisfed.org/">https://fred.stlouisfed.org/</a> . The capital structure and cost of debt will be the weighted for the year if the long term debt is obtained midyear. However, if prior to obtaining long term debt, the company has short term debt, the cost of debt will be calculated pursuant to Attachment 5, note D. The capital structure will be 60% equity and 40% debt until any asset is placed in service, then it will be based on the actual capital structure, provided that during any period where the equity component of the actual capital structure is greater than 60%, company will reduce the equity component to a level not to exceed 60%. If the capital structure is reduced to 60% equity, the reduced ATRR as a result of capping the equity portion of GridLiance's capital structure at 60%, and the difference between these two values shall be provided by the company in its Annual True-up. The amount of debt in the capital structure will be
FF	Unamortized Abandoned Plant and Amortization of Abandoned Plant will be zero until the Commission accepts or approves recovery of the cost of abandoned plant. Utility must submit a Section 205 filing to recover the cost of abandoned plant.
GG	Recovery of regulatory asset permitted only for pre-commercial and formation expenses and are subject to FERC approval before any Regulatory Asset amounts are included in rates. Recovery of any other regulatory assets requires authorization from the Commission. A carrying charge equal to the AFUDC rate will be applied to the regulatory asset prior to the rate year when costs are first recovered.
HH	Reserved
II	The Tax Effect of Permanent Differences captures the differences in the income taxes due under the Federal and State calculations and the income taxes calculated in Attachment O-GLH that are not the result of a timing difference.
JJ	DA in the allocator Column means that the cost is directly assigned to transmission consistent with the attached workpapers.
KK	Round to zero if amount shown is not zero and there is no revenue requirement to recover under Schedules 7, 8, and 9 of the MISO OATT.
LL	AFUDC ceases when CWIP is recovered in rate base. No CWIP will be included in rate base on line 18a absent FERC authorization.
MM	It is possible GLH will not have any salaries and wages to report in the FERC Form No. 1 (that is page 4, lines 12-15 are zero), even if GLH has existing transmission assets in service. If and when this occurs page 4, line 13,
NN	Includes revenue from electric operations properly credited to MISO customers and not includible in other accounts, such as compensation for minor or incidental services provided for others. GLH commits to provide a workpaper itemizing each revenue source for interested parties to determine which revenues should be reflected herein.
OO	Per Commission Order dated January 31, 2020 in Docket No. EC20-13, reflects a \$2,650,000 fixed annual credit amount for the four transmission lines to be transferred over to MISO's functional control, starting on the day after the closing date of the transaction in Docket No. EC20-13 and continuing for 60 months (Rate Mitigation Period). Also reflects an additional \$950,000 fixed annual credit amount for the remaining two transmission lines, once transferred over to MISO's functional control (expected to be on or about June 1, 2022) from the date of transfer of functional control to MISO through the end of the Rate Mitigation Period. Amount to be entered as negative.

End

Attachment 1 (Note J)  
Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

Page 1 of 3

To be completed in conjunction with Attachment O - GLH.  
(inputs from Attachment O - GLH are rounded to whole dollars)

Line No.	(1)	(2) Source Page, Line, Col.	(3) Transmission	(4) Allocator
1	Gross Transmission Plant - Total	Attach O, p 2, line 2 col 5 (Note A)	21,486,757	
1a	Transmission Accumulated Depreciation	Attach O, p 2, line 8 col 5	10,107,777	
1b	CWIP, Regulatory Asset, Abandoned Plant	Attach O, p 2, lines 18a, 23a & 23b (Note B)	-	
2	Net Transmission Plant - Total	Line 1 minus Line 1a plus Line 1b	11,378,980	
	O&M TRANSMISSION EXPENSE			
3	Total O&M Allocated to Transmission	Attach O, p 3, line 8 col 5	5,276,529	
3a	Transmission O&M	Attach O, p 3, line 1 col 5	3,473,569	
3b	Less: Ancillary Service Expenses included in above	Attach O, p 3, line 1a col 5	1,365,708	
3c	Less: Account 565 included in above, if any	Attach O, p 3, line 2 col 5, if any	-	
3d	Less: Account 566 Amort of Reg Asset included in 3a, if any	Attach O, p 3, line 7b col 5, if any	-	
3e	Adjusted Transmission O&M	Line 3a minus Lines 3b thru 3d	2,107,862	
4	<b>Annual Allocation Factor for Transmission O&amp;M</b>	(Line 3e divided by line 1, col 3)	<b>0.10</b>	<b>0.10</b>
	OTHER O&M EXPENSE			
4a	Other O&M Allocated to Transmission	Line 3 minus Line 3e	3,168,667	
4b	Annual Allocation Factor for Other O&M	Line 4a divided by Line 1, col 3	0.15	0.15
	GENERAL, INTANGIBLE AND COMMON (G, I & C) DEPRECIATION EXPENSE			
5	Total G, I & C Depreciation Expense	Attach O, p 3, lines 10 & 11, col 5 (Note G)	-	
6	Annual Allocation Factor for G, I & C Depreciation Expense	(line 5 divided by line 1 col 3)	-	-
	TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attach O, p 3, line 20 col 5	141,241	
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1 col 3)	0.01	0.01
9	<b>Annual Allocation Factor for Other Expense</b>	<b>Sum of line 4b, 6, and 8</b>	<b>0.15</b>	<b>0.15</b>
	INCOME TAXES			
10	Total Income Taxes	Attach O, p 3, line 27 col 5	148,253	
11	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2 col 3)	0.01	0.01
	RETURN			
12	Return on Rate Base	Attach O, p 3, line 28 col 5	919,878	
13	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2 col 3)	0.08	0.08
14	<b>Annual Allocation Factor for Return</b>	<b>Sum of line 11 and 13 col 4</b>		<b>0.09</b>



Attachment 1 (Note J)  
Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
		MTEP # or Other Designation	Project Gross Plant	Project Accumulated Depreciation/Amortization	Transmission O&M Annual Allocation Factor	Annual Allocation for Transmission O&M Expense	Annual Allocation Factor for Other Expense	Annual Allocation for Other Expense	Annual Expense Charge	Project Net Plant
Line No.	Project Name									
15	(Note C)				Page 1 line 4	Col. 3 * Col. 5	Page 1 line 9	Col. 3 * Col. 7	Col. 6 + Col. 8	(Note D)
15a	The Ohio River Crossing-MISO Assets	N/A	21,486,757	10,107,777	0.10	2,107,862	0.15	3,309,908	5,417,770	11,378,980
15b	-	-	-	-	0.10	-	0.15	-	-	-
15c	-	-	-	-	0.10	-	0.15	-	-	-
15d	-	-	-	-	0.10	-	0.15	-	-	-
15e	-	-	-	-	0.10	-	0.15	-	-	-
15f	-	-	-	-	0.10	-	0.15	-	-	-
15g	-	-	-	-	0.10	-	0.15	-	-	-
15h	-	-	-	-	0.10	-	0.15	-	-	-
15i	-	-	-	-	0.10	-	0.15	-	-	-
15j	-	-	-	-	0.10	-	0.15	-	-	-
15k	-	-	-	-	0.10	-	0.15	-	-	-
15l	-	-	-	-	0.10	-	0.15	-	-	-
15m	-	-	-	-	0.10	-	0.15	-	-	-
15n	-	-	-	-	0.10	-	0.15	-	-	-
15o	-	-	-	-	0.10	-	0.15	-	-	-
	-	-	-	-	0.10	-	0.15	-	-	-
	-	-	-	-	0.10	-	0.15	-	-	-
	-	-	-	-	0.10	-	0.15	-	-	-
	-	-	-	-	0.10	-	0.15	-	-	-
16	Annual Totals		21,486,757	10,107,777		2,107,862		3,309,908	5,417,770	11,378,980
17	Rev. Req. Adj For Attachment O									
18	Incentives from Projects other than those in Attachment GG- GLH and Attachment MM-GLH									

Note  
Letter

- A Gross Transmission Plant that is included on page 2 line 2 of Attachment O-GLH (see line 1 col (3)).
- B Inclusive of any CWIP, unamortized abandoned plant and unamortized project-related regulatory asset included in rate base when authorized by FERC order. Excludes start-up regulatory asset (see line 1b, col. (3)).
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1. This value includes subsequent capital investments required to maintain the facilities to their original capabilities. Gross plant does not include any CWIP, unamortized abandoned plant or any regulatory asset (see line 15, col. (3)).
- D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation in col (4). Net Plant includes any CWIP in rate base, any project related regulatory asset and any Unamortized Abandoned Plant approved by the Commission (see line 15, col. (10)). Net plant does not include start-up regulatory asset.
- E Project Depreciation Expense is the actual value booked in Attachment O-GLH, Page 3, line 9 that is associated with the specified project. Project Depreciation Expense includes the amortization of Abandoned Plant. However, if FERC grants accelerated depreciation for a project the depreciation rate authorized by FERC will be used instead of the rates shown on Attachment 6 for all other projects. Line 15, Col. (13). Includes project related regulatory assets.
- F Project True-Up Adjustment is calculated on the Attachment GG - GLH and Attachment MM - GLH True-Up Template (see col. K). For projects other than Attachment GG or MM, the Project True-up Adjustment is calculated on
- G The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in Line 15, col. 13.
- H A Competitive Bid Concession reflects any commitment by GLH to MISO to charge less than GLH's Ceiling Rate, regardless of how that Competitive Bid Concession is calculated. For each project, the amount of the Competitive Bid Concession will be zero or a reduction to the annual transmission revenue requirement in one or more years. GLH will include, as part of its Annual Update, (i) an explanation of the basis for any Competitive Bid Concession, (ii) a calculation of the Competitive Bid Concession, and (iii) any documentation needed to support the calculation of the Competitive Bid Concession. The amount in Column 17 above equals the amount by which the annual revenue requirement is reduced from the ceiling rate (see line 15 col. (17)).
- I Requires approval by FERC of incentive return applicable to the specified project(s) (see line 15, col. (15)).
- J This Attachment 1 is a reconciliation or summary of Attachment GG - GLH and Attachment MM - GLH. The actual calculations for Attachment GG and MM projects used in developing rates will be those calculated in Attachment GG - GLH and Attachment MM - GLH. Attachment 1 may also consist of other projects, such as those which have received FERC approval for an incentive adder but are not Attachment GG or MM projects. The incentives associated with those projects will be added to the Attachment O-GLH revenue requirement on Attachment O, page 3, line 30b.
- K Per Commission Order dated January 31, 2020 in Docket No. EC20-13, reflects a \$2,650,000 fixed annual credit amount for the four transmission lines to be transferred over to MISO's functional control, starting on the day after the closing date of the transaction in Docket No. EC20-13 and continuing for 60 months (Rate Mitigation Period). Also reflects an additional \$950,000 fixed annual credit amount for the remaining two transmission lines, once transferred over to MISO's functional control (expected to be on or about June 1, 2022) from the date of transfer of functional control to MISO through the end of the Rate Mitigation Period. Amount to be entered as negative.

Attachment 1 (Note J)  
Project Revenue Requirement Worksheet  
GridLiance Heartland LLC

[illegible]

Attachment 2 Incentive Return GridLiance Heartland LLC									
A	B	C	D	E	F	G	H	I	J
1	Rate Base	Attachment O-GLH, page 2, line 30, Col.5							12,754,819
2	100 Basis Point Incentive Return							\$	
			\$	%		Cost		Weighted	
3	Long Term Debt	Attachment O-GLH, Notes Y and EE	-	40%		2.25%		0.0090	
4	Preferred Stock	Attachment O-GLH, Notes Y and EE	-	0%		-		-	
5	Common Stock (Note A)                      Cost = Attachment O, Line 29, Cost plus .01	Attachment O-GLH, Notes O, Y and EE	-	60%		11.52%		0.0691	
6	Total	Sum Lines 3 to 5	-					0.0781	
7	100 Basis Point Incentive Return multiplied by Rate Base	Line 1 * Line 6, Col. I							996,406
8	INCOME TAXES								
9	T=SIT * (1-FIT) + FIT - (p*FIT)	Attachment O-GLH, Page 3, Line 21	0.1546						
10	CIT=(T/1-T) * (1-(WCLTD/R)) =		0.1618						
11	WCLTD = Line 3								
12	and FIT, SIT & p are as given in footnote K.								
13	1 / (1 - T) = (from line 9)		1.1828						
14	Amortized Investment Tax Credit (266.8f) (enter negative)	Attachment O-GLH, Page 3, Line 24	-						
15	Excess Deferred Income Taxes (enter negative)	Attachment O-GLH, Page 3, Line 24a	-						
16	Tax Effect of Permanent Differences (Note B)	Attachment O-GLH, Page 3, Line 24b	1,159.00						
17	Income Tax Calculation	Line 10 * Line 7	161,197		NA			161,197	
18	ITC adjustment	Line 13 * Line 14	-		NP	-		-	
19	Excess Deferred Income Tax Adjustment	Line 13 * Line 15	-		NP	-		-	
20	Permanent Differences Tax Adjustment	Line 13 * Line 16	1,370.91		NP	-		-	
21	Total Income Taxes	Sum Lines 17 - 20	162,567					161,197	161,197
22	Return and Income Taxes with 100 basis point increase in ROE								1,157,603
23	Return	Attach. O, Page 3, Line 28, Col. 5							919,878
24	Income Tax	Attach. O, Page 3, Line 27, Col. 5							148,253
25	Return and Income Taxes without 100 basis point increase in ROE	Sum Lines 23 and 24							1,068,131
26	Incremental Return and Income Taxes for 100 basis point increase in ROE	Line 22 less Line 25							89,472
27	Rate Base	Line 1							12,754,819
28	Incremental Return and Income Taxes for 100 basis point increase in ROE divided by Rate Base	Line 26 / Line 27							0.0070

## Notes:

- A Line 5 includes a 100 basis point increase in ROE that is used only to determine the increase in return and income taxes associated with a 100 basis point increase in ROE. Any ROE incentive must be approved by the Commission.  
For example, if the Commission were to grant a 137 basis point ROE incentive, the increase in return and taxes for a 100 basis point increase in ROE would be multiplied by 1.37 on Attachment 1, column 16.
- B The Tax Effect of Permanent Differences captures the differences in the income taxes due under the Federal and State calculations and the income taxes calculated in Attachment O-GLH that are not the result of a timing difference.

Attachment 3 (Note 3)  
Project True-Up  
GridLiance Heartland LLC

Year				Annual True-Up Calculation			
1	A	B	C	D	E	F	G
	MTEP Project Number	Project Name	Adjusted Net Revenue Requirement <sup>1</sup>	Revenue Received <sup>2</sup>	Net Under/(Over) Collection (C-D)	Interest Income (Expense)	Total True-Up Adjustment (E + F)
2			-	-	-	-	-
2a			-	-	-	-	-
2b			-	-	-	-	-
2c			-	-	-	-	-
2d			-	-	-	-	-
			-	-	-	-	-
3	Total		-	-	-	-	-

1) From Attachment GG - GLH True-Up Calculation, Column G and Attachment MM - GLH True-Up Calculation, Column G, and Attachment O-GLH.  
2) The "revenue received" is the total amount of revenue distributed to GLH in the True-Up Year. Attachment O, Lines 36a -37, page 4 of 5 of Attachment O - GLH  
3) This Attachment 3 is a summary of the Attachment GG -GLH True-Up Calculation and the Attachment MM - GLH True-Up Calculation. The Attachment O - GLH True-Up is the actual True-Up calculation.

For each project or Attachment O-GLH, the utility will populate the formula rate with the inputs for the True-Up Year. The revenue requirements, based on actual operating results for the True-Up Year, associated with the projects and Attachment O-GLH will then be entered in Col. (C) above. Column (D) contains the actual revenues received associated with Attachment GG-GLH, Attachment MM-GLH and Attachment O-GLH paid by MISO to the utility during the True-Up Year. Col. (E) is the Net Under/(Over) Collection where Col. (D) is subtracted from Col. (C). Column (F), line 2 is the interest calculated in accordance with Attachment O-GLH Annual True-Up, Information Exchange and Challenge Procedures. Column (F), lines 2x contain the interest amounts calculated in column (J) of the Annual Attachment GG True-Up Calculation and the Annual Attachment MM True-Up Calculation. Col. (G) is the sum of the Net Under/(Over) Collection in Col. (E) and the interest in Col. (F).

FERC Refund Interest Rate

(a)		(b)	(c)	(d)
Interest Rate:		Quarter	Year	Quarterly Interest Rate under Section 35.19(a)
4		1st Qtr.	-	-
5		2nd Qtr	-	-
6		3rd Qtr	-	-
7		4th Qtr	-	-
8		1st Qtr	-	-
9		2nd Qtr	-	-
10		3rd Qtr	-	-
11		Sum lines 5-11	-	-
12				
13	Avg. Monthly FERC Rate	Line 12 divided by 7	-	-

Gross Plant In Service (Attachment O, Note Y and BB)							CWIP	LHFFU	Working Capital	Accumulated Depreciation (Attachment O, Note Y and BB)					
Line No	Month (a)	Production (b)	Transmission (c)	Distribution (d)	General & Intangible (e)	Common (f)	CWIP (Note C) (g)	Land Held for Future Use (h)	Materials & Supplies (i)	Prepayments (j)	Production (k)	Transmission (l)	Distribution (m)	General & Intangible (n)	Common (o)
	FN1 Reference for Dec	205.46.g	207.58.g	207.75.g	205.5.g & 207.99.g	356.1	216.x.b	214.x.d	227.8.c & 227.16.c	111.57.c	219.20-24.c	219.25.c	219.26.c	219.28.c & 200.21.c	356.1
1	December Prior Year	-	27,606,012	-	-	-	-	-	328,467	1,206,208	-	12,930,481	-	-	-
2	January	-	27,606,012	-	-	-	-	-	328,467	1,099,944	-	12,976,491	-	-	-
3	February	-	27,606,012	-	-	-	-	-	328,467	993,680	-	13,022,501	-	-	-
4	March	-	27,606,012	-	-	-	-	-	328,467	887,417	-	13,068,511	-	-	-
5	April	-	27,606,012	-	-	-	-	-	328,467	781,153	-	13,114,521	-	-	-
6	May	-	27,606,012	-	-	-	-	-	328,467	674,890	-	13,160,531	-	-	-
7	June	-	27,606,012	-	-	-	-	-	328,467	568,626	-	13,206,541	-	-	-
8	July	-	27,606,012	-	-	-	-	-	328,467	462,363	-	13,252,551	-	-	-
9	August	-	27,606,012	-	-	-	-	-	328,467	356,099	-	13,298,561	-	-	-
10	September	-	27,606,012	-	-	-	-	-	328,467	325,039	-	13,344,571	-	-	-
11	October	-	27,606,012	-	-	-	-	-	328,467	250,252	-	13,390,581	-	-	-
12	November	-	27,606,012	-	-	-	-	-	328,467	142,856	-	13,436,591	-	-	-
13	December	-	33,711,503	-	-	-	-	-	328,467	148,329	-	13,492,777	-	-	-
14	Average of the 13 Monthly Balances	-	28,075,665	-	-	-	-	-	328,467	607,450	-	13,207,324	-	-	-
Adjustments to Rate Base (Attachment O, Note Y)															

Line No	Month (a)	Unamortized Regulatory Asset (b)	Unamortized Abandoned Plant (c)	Reserved (d)	Reserved (e)	Reserved (f)	Reserved (g)	Account No. 255 Accumulated Deferred Investment Credit (Note D) (h)
	FN1 Reference for Dec	Notes A & E	Notes B & F					Consistent with 266.8.b & 267.8.h
15	December Prior Year	-	-					-
16	January	-	-					-
17	February	-	-					-
18	March	-	-					-
19	April	-	-					-
20	May	-	-					-
21	June	-	-					-
22	July	-	-					-
23	August	-	-					-
24	September	-	-					-
25	October	-	-					-
26	November	-	-					-
27	December	-	-					-
28	Average of the 13 Monthly Balances -	-	-					-

Attachment 4  
Rate Base Worksheet (Page 2 of Attachment O - GLH)  
GridLiance Heartland LLC

Line No	Unfunded Reserves (Note G)	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
				Enter 1 if NOT in a trust or reserved account, enter zero (0) if included in a trust or reserved account	Enter 1 if the accrual account is included in the formula rate, enter zero (0) if the accrual account is NOT included in the formula rate	Enter the percentage paid for by customers, 1 less the percent associated with an offsetting liability on the balance sheet	Allocation (Plant or Labor Allocator)		Amount Allocated, col. (c) x col. (d) x col. (e) x col. (f) x col. (g)
29	List of all reserves:	Amount							
30a	Reserve 1	-	-	-	-	-	-	-	-
30b	Reserve 2	-	-	-	-	-	-	-	-
30c	Reserve 3								-
30d	Reserve 4								-
30e	...								-
30f	...	-	-	-	-	-	-	-	-
31	Total	-							-
									\$0.00

Notes:

A Recovery of regulatory asset is limited to any regulatory assets authorized by FERC.

B Recovery of abandoned plant is limited to any abandoned plant recovery authorized by FERC.

C Includes only CWIP authorized by the Commission for inclusion in rate base. The Annual Update will include for each project under construction (i) the CWIP balance eligible for inclusion in rate base; (ii) the CWIP balance ineligible for inclusion in rate base; and (iii) a demonstration that AFUDC is only applied to the CWIP balance that is not included in rate base. The Annual Update will reconcile the project-specific CWIP balances to the total Account 107 CWIP balance reported on p. 216.b of the FERC Form 1

D Accumulated Deferred Income Tax Credits are computed on Attachments 8a and 8b

E Recovery of a Regulatory Asset is permitted only for pre-commercial and formation expenses, and is subject to FERC approval before the amortization of the Regulatory Asset can be included in rates. Recovery of any other regulatory assets requires authorization from the Commission. A carrying charge equal to the AFUDC rate will be applied to the Regulatory Asset prior to the rate year when costs are first recovered.

F Unamortized Abandoned Plant and Amortization of Abandoned Plant will be zero until the Commission accepts or approves recovery of the cost of abandoned plant.

G The Formula Rate shall include a credit to rate base for all unfunded reserves (funds collected from customers that (1) have not been set aside in a trust, escrow or restricted account; (2) whose balance are collected from customers through cost accruals to accounts that are recovered under the Formula Rate; and (3) exclude the portion of any balance offset by a balance sheet account). Each unfunded reserve will be included on lines 30 above. The allocator in Col. (g) will be the same allocator used in the formula for the cost accruals to the account that is recovered under the Formula Rate. Reserves can be created by capital contributions from customers, by debiting the reserve and crediting a liability, or a combination of customer capital contribution and offsetting liability. Only the portion of a reserve that was created by customer contributions should be a reduction to rate base. For reserves that be created partially through customer contributions and partially by an offsetting liability, enter in column (f) the percentage of the reserve that was contributed by customers.

Attachment 5														
Attachment O - GLH, Page 3 Worksheet														
GridLiance Heartland LLC														
Line No.	Month	Transmission O&M Expenses	Account No. 566 (Misc. Trans. Expense)	Account No. 565	A&G Expenses	FERC Annual Fees	EPRI & Reg. Comm. Exp. & Non-safety Ad.	Transmission Related Reg. Comm. Exp.	Transmission Lease Payments	Amortization of Regulatory Asset	Miscellaneous Transmission Expense (less Amortization of Regulatory Asset)	Depreciation Expense - Transmission (Attachment O - GLH, Note BB)	Less Ancillary Service Expenses included in Transmission O&M Accounts	
Attachment O - GLH, Page 3, Line Number		1 (a)	1b (b)	2 (c)	3 (d)	4 (e)	5 (f)	5a (g)	7 (h)	7b (i)	7c (j)	9 (k)	1a (l)	
FERC Form 1 Reference		321.112.b	321.97.b	321.96.b	323.197.b	Attachment O - GLH, Note I		Attachment O - GLH, Note I		321.97.b	321.97.b	336.7.f	Attachment O - GLH, Note U	
1	January	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
2	February	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
3	March	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
4	April	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
5	May	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
6	June	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
7	July	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
8	August	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
9	September	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
10	October	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
11	November	378,228	-	-	345,028	-	-	-	-	-	-	46,010	148,708	
12	December	378,228	-	-	345,028	-	-	-	-	-	-	56,186	148,708	
13	Total	\$ 4,538,738	\$ -	\$ -	\$ 4,140,338	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 562,296	\$ 1,784,502	
Attachment O - GLH, Note BB														
Attachment O, Page 3, Line Number														
		10 (a)	11a (b)	13 (c)	14 (d)	16 (e)	17 (f)	18 (g)	19 (h)	24 (i)	24a (j)	24b (k)	11 (l)	
FERC Form 1 Reference		336.10.f & 336.1.f	X & FF	263.i	263.i	263.i	263.i	263.i		266.8.f			336.11.f	
14	January	-	-	-	-	15,379	-	-	-	-	-	96	-	
15	February	-	-	-	-	15,379	-	-	-	-	-	96	-	
16	March	-	-	-	-	15,379	-	-	-	-	-	96	-	
17	April	-	-	-	-	15,379	-	-	-	-	-	96	-	
18	May	-	-	-	-	15,379	-	-	-	-	-	96	-	
19	June	-	-	-	-	15,379	-	-	-	-	-	97	-	
20	July	-	-	-	-	15,379	-	-	-	-	-	97	-	
21	August	-	-	-	-	15,379	-	-	-	-	-	97	-	
22	September	-	-	-	-	15,379	-	-	-	-	-	97	-	
23	October	-	-	-	-	15,379	-	-	-	-	-	97	-	
24	November	-	-	-	-	15,379	-	-	-	-	-	97	-	
25	December	-	-	-	-	15,379	-	-	-	-	-	97	-	
26	Total	\$ -	\$ -	\$ -	\$ -	\$ 184,553	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,159	\$ -	
27 RETURN (R) (Attachment O-GLH, Notes O, Y, and EE)														
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)		
			Long Term Interest (117, sum of 62.c through 67.c)						-					
			Preferred Dividends (118.29c) (positive number)						-					
			Proprietary Capital (112.16.c)						-					
			Less Preferred Stock (line 35, col. (d))						-					
			Less Account 216.1 (112.12.c)			(enter negative)			-					
			Common Stock			(sum lines 30 - 32)			-					
Cost Rates														
					\$	%					Weighted			
34	Long Term Debt	Note A and Note D			0.40	0.40		2.25%			0.90% =WCLTD			
35	Preferred Stock (112.3.c)	Note B			-	-		0.00%						
36	Common Stock	Note C			0.60	0.60		10.52%			6.31%			
37	Total	(Sum of Lines 34 through 36)			1						7.21% =R			

Note:

A Long Term debt balance will reflect the 13 month average of the balances, of which the 1st and 13th are found on page 112 lines 18.c to 21.c in the Form No. 1, the cost is calculated by dividing line 28 by the Long Term Debt balance in line 34.

B Preferred Stock balance will reflect the 13 month average of the balances, of which the 1st and 13th are found on page 112 line 3.c in the Form No. 1, the cost is calculated by dividing line 29 by the Preferred Stock balance in line 35.

C Common Stock balance will reflect the 13 month average of the balances, of which the 1st and 13th are found on page 112 lines 3.c 12.c, 16.c in the Form No. 1 as shown on lines 30-33 above

D If the company has short-term debt prior to issuing long-term debt, line 34 will reflect the outstanding short-term debt and cost rates only until long term debt is issued, as calculated below:

Short-term debt outstanding The 13 month average of the balances consistent with "S", the average short-term debt balance pursuant to Part 101 of the Commission's Regulations, Electric Plant Instruction 17

Short-term debt cost The interest "s", the short-term debt interest rate pursuant to Part 101 of the Commission's Regulations, Electric Plant Instruction 17

Attachment 6  
Depreciation Rates  
GridLiance Heartland LLC

<u>FERC ACCOUNT</u>	<u>DESCRIPTION</u>	<u>RATE PERCENT</u>
<u>TRANSMISSION</u>		
350	Land Rights	N/A
352	Structures and Improvements	1.5397%
353	Station Equipment	2.0285%
354	Towers and Fixtures	1.8847%
355	Poles and Fixtures	2.1496%
356	Overhead Conductors & Devices	2.0973%
357	Underground Conduit	1.3665%
358	Underground Conductors & Devices	1.8416%
359	Roads and Trails	0.0000%
<u>GENERAL AND INTANGIBLE</u>		
302	Franchises and Consents (Note 1)	N/A
303	Intangible Plant - 5 Year	20.0000%
390	Structures and Improvements	2.1194%
391	Office Furniture and Equipment	5.0671%
391	Network Equipment	25.0000%
392	Transportation Equipment - Auto	10.9667%
392	Transportation Equipment - Light Truck	8.4139%
392	Transportation Equipment - Trailers	6.9486%
392	Transportation Equipment - Heavy Trucks	7.2364%
393	Stores Equipment	5.0000%
394	Tools, Shop and Garage Equipment	6.6672%
395	Laboratory Equipment	10.0000%
396	Power Operated Equipment	8.4139%
397	Communication Equipment	11.1110%
398	Miscellaneous Equipment	6.6672%

## Note 1:

Electric Intangible Franchises and Transmission Land Rights are amortized over the life of the franchise agreement or land right.

## Note 2:

GLH's depreciation and amortization rates may not be changed absent a section 205 or 206 filing



Attachment 7  
PBOPs  
GridLiance Heartland LLC

**Calculation of PBOP Expenses**

Line No.

**Year Ended  
December 31, \_\_\_\_**

1			
2	Total PBOP expenses	Note A	-
3	Labor dollars	Note A	-
4	Cost per labor dollar	Line 2 divided by line 3	-
5	labor (labor not capitalized) current year	(Note B)	-
6	PBOP Expense for current year	Line 4 times line 5	-
7	Lines 2 and 3 cannot change absent approval or acceptance by FERC in a separate proceeding.		
8	PBOP amount included in Company's O&M and A&G expenses in Form No. 1		-

Note

Letter

- |   |   |
|---|---|
| A | Amounts will be zero until changed pursuant to a FERC order.        |
| B | The sum of all labor included in accounts 560 to 579 and 920 to 935 |

## Attachment 8a - Accumulated Deferred Income Taxes (ADIT) Average Worksheet (Projection)

## GridLiance Heartland LLC

Projection For the 12 months ended 12/31/2021

Ln	A Item	B Transmission Related	C Plant Related	D Labor Related	E (Sum Col. B, C & D) Total
1	ADIT-282 (enter negative)	(63,351)	-	-	Line 12
2	ADIT-283 (enter negative)	(99,901)	-	-	Line 16
3	ADIT-190	163,252	-	-	Line 21
4	Subtotal	(0)	-	-	Sum of Lines 1-3
5	Wages & Salary Allocator			0.77	Attachment-O Page 4 line 16
6	Net Plant Allocator		0.77		Attachment-O Page 2 line 6
7	Total Plant Allocator	1.00			100%
8	Projected ADIT Total	(0)	-	-	(0) Enter as negative Attachment-O, page 2, line 22

	(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Balance	(e) Transmission Related	(f) Plant Related	(g) Labor Related
ADIT-282							
9	Balance-BOY (Attach 8c, Line 30)	December	2020	-	-	-	-
10	EOY (Attach 8d, Line 30 less Line 26)	December	2021	-	-	-	-
11	Balance-EOY Prorated (Attach 8b, Line 14)	December	2021	(63,351)	(63,351)	-	-
12	ADIT 282-Total (Lines 10+11)			(63,351)	(63,351)	-	-
ADIT-283							
13	Balance-BOY (Attach 8c, Line 44)	December	2020	(163,885)	(163,885)	-	-
14	EOY (Attach 8d, Line 44 less Line 40)	December	2021	-	-	-	-
15	EOY Prorated (Attach 8b, Line 28)	December	2021	(99,901)	(99,901)	-	-
16	ADIT 283-Total (Lines 14+15)			(99,901)	(99,901)	-	-
ADIT-190							
17	Balance-BOY (Attach 8c, Line 18)	December	2020	187,569	187,569	-	-
18	EOY (Attach 8d, Line 18 less Line 14)	December	2021	-	-	-	-
19	EOY Prorated (Attach 8b, Line 42)	December	2021	163,252	163,252	-	-
20	ADIT 190-Total (Lines 18+19)			163,252	163,252	-	-

## Attachment 8b - Accumulated Deferred Income Taxes (ADIT) Proration Worksheet (Projection)

## GridLiance Heartland LLC

Projection For the 12 months ended 12/31/2021

(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Weighting for Projection	(e) Beginning Balance/ Monthly Increment	(f) Transmission	(g) Transmission Proration (d) x (f)	(h) Plant Related	(i) Plant Proration (d) x (h)	(j) Labor Related	(k) Labor Proration (d) x (j)
<b>ADIT-282-Proration-Note A</b>										
1 Balance (Attach 8c, Line 30)	December	2020	100.00%	(23,684)	(23,684)	(23,684)	-	-	-	-
2 Increment	January	2021	91.78%	(7,136)	(7,136)	(6,549)	-	-	-	-
3 Increment	February	2021	84.11%	(7,136)	(7,136)	(6,002)	-	-	-	-
4 Increment	March	2021	75.62%	(7,136)	(7,136)	(5,396)	-	-	-	-
5 Increment	April	2021	67.40%	(7,136)	(7,136)	(4,809)	-	-	-	-
6 Increment	May	2021	58.90%	(7,136)	(7,136)	(4,203)	-	-	-	-
7 Increment	June	2021	50.68%	(7,136)	(7,136)	(3,617)	-	-	-	-
8 Increment	July	2021	42.19%	(7,136)	(7,136)	(3,011)	-	-	-	-
9 Increment	August	2021	33.70%	(7,136)	(7,136)	(2,405)	-	-	-	-
10 Increment	September	2021	25.48%	(7,136)	(7,136)	(1,818)	-	-	-	-
11 Increment	October	2021	16.99%	(7,136)	(7,136)	(1,212)	-	-	-	-
12 Increment	November	2021	8.77%	(7,136)	(7,136)	(626)	-	-	-	-
13 Increment	December	2021	0.27%	(7,136)	(7,136)	(20)	-	-	-	-
14 ADIT 282-Prorated EOY Balance				(109,314)	(109,314)	(63,351)	-	-	-	-
<b>ADIT-283-Proration-Note B</b>										
15 Balance (Attach 8c, Line 44)	December	2020	100.00%	(163,885)	(163,885)	(163,885.00)	-	-	-	-
16 Increment	January	2021	91.78%	11,510	11,510	10,564.11	-	-	-	-
17 Increment	February	2021	84.11%	11,510	11,510	9,681.14	-	-	-	-
18 Increment	March	2021	75.62%	11,510	11,510	8,703.57	-	-	-	-
19 Increment	April	2021	67.40%	11,510	11,510	7,757.53	-	-	-	-
20 Increment	May	2021	58.90%	11,510	11,510	6,779.95	-	-	-	-
21 Increment	June	2021	50.68%	11,510	11,510	5,833.91	-	-	-	-
22 Increment	July	2021	42.19%	11,510	11,510	4,856.34	-	-	-	-
23 Increment	August	2021	33.70%	11,510	11,510	3,878.76	-	-	-	-
24 Increment	September	2021	25.48%	11,510	11,510	2,932.72	-	-	-	-
25 Increment	October	2021	16.99%	11,510	11,510	1,955.15	-	-	-	-
26 Increment	November	2021	8.77%	11,510	11,510	1,009.11	-	-	-	-
27 Increment	December	2021	0.27%	11,510	11,510	31.53	-	-	-	-
28 ADIT 283-Prorated EOY Balance				(25,763)	(25,763)	(99,901.17)	-	-	-	-
<b>ADIT-190-Proration-Note C</b>										
29 Balance (Attach 8c, Line 18)	December	2020	100.00%	187,569	187,569	187,569.00	-	-	-	-
30 Increment	January	2021	91.78%	(4,374)	(4,374)	(4,014.82)	-	-	-	-
31 Increment	February	2021	84.11%	(4,374)	(4,374)	(3,679.25)	-	-	-	-
32 Increment	March	2021	75.62%	(4,374)	(4,374)	(3,307.73)	-	-	-	-
33 Increment	April	2021	67.40%	(4,374)	(4,374)	(2,948.20)	-	-	-	-
34 Increment	May	2021	58.90%	(4,374)	(4,374)	(2,576.68)	-	-	-	-
35 Increment	June	2021	50.68%	(4,374)	(4,374)	(2,217.14)	-	-	-	-
36 Increment	July	2021	42.19%	(4,374)	(4,374)	(1,845.62)	-	-	-	-
37 Increment	August	2021	33.70%	(4,374)	(4,374)	(1,474.10)	-	-	-	-
38 Increment	September	2021	25.48%	(4,374)	(4,374)	(1,114.56)	-	-	-	-
39 Increment	October	2021	16.99%	(4,374)	(4,374)	(743.04)	-	-	-	-
40 Increment	November	2021	8.77%	(4,374)	(4,374)	(383.51)	-	-	-	-
41 Increment	December	2021	0.27%	(4,374)	(4,374)	(11.98)	-	-	-	-
42 ADIT 190-Prorated EOY Balance				135,077	135,077	163,252.38	-	-	-	-

**Note 1** Uses a 365 day calendar year.**Note 2** Projected end of year ADIT must be based solely on enacted tax law. No assumptions for future estimated changes in tax law may be forecasted.**A** Substantial portion, if not all, of the ADIT-282 balance is subject to proration. Explanation must be provided for any portion of balance not subject to proration.**B** Only amounts in ADIT-283 relating to Depreciation, if applicable, are subject to proration. See Line 44 in Attach 8c and 8d.**C** Only amounts in ADIT-190 related to net operating loss NOL carryforwards, if applicable, are subject to proration. See Line 18 in Attach 8c and 8d.

Attachment 8c - Accumulated Deferred Income Taxes (ADIT) Worksheet (Beginning of Year)  
For the 12 months ended 12/31/2021

Ln	Item	Transmission Related	Plant Related	Labor Related	
1	ADIT-282	(23,684)	-	-	Line 30
2	ADIT-283	(163,885)	-	-	Line 44
3	ADIT-190	187,569	-	-	Line 18
4	Subtotal	-	-	-	Sum of Lines 1-4

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns B-F and each separate ADIT item will be listed. Dissimilar items with amounts exceeding \$100,000 will be listed separately. For ADIT directly related to project depreciation or CWIP, the balance will be shown in a separate row for each project.

A	B	C	D	E	F	G
ADIT-190	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
5 Plant related						
6						
7						
8						
9						
10						
11						
12						
13						
14 NOL Carryforward	187,569		187,569			Amount subject to Proration
15 Subtotal - p234.b	187,569	-	187,569	-	-	
16 Less FASB 109 Above if not separately removed						
17 Less FASB 106 Above if not separately removed						
18 Total	187,569	-	187,569	-	-	

Instructions for Account 190:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

Attachment 8c - Accumulated Deferred Income Taxes (ADIT) Worksheet (Beginning of Year)  
For the 12 months ended 12/31/2021

A	B	C	D	E	F	G
ADIT- 282	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
19 Plant related						
20						
21						
22						
23						
24						
25						
26 Plant Items	(23,684)		(23,684)	-		Amount subject to Proration
27 Subtotal - p274.b	(23,684)	-	(23,684)	-	-	
28 Less FASB 109 Above if not separately removed						
29 Less FASB 106 Above if not separately removed						
30 Total	(23,684)	-	(23,684)	-	-	

Instructions for Account 282:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

A	B	C	D	E	F	G
ADIT- 283	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
31 Plant related						
32						
33						
34						
35						
36						
37						
38						
39						
40 Depreciation Items	(163,885)		(163,885)			Amount subject to Proration
41 Subtotal - p276.b	(163,885)	-	(163,885)	-	-	
42 Less FASB 109 Above if not separately removed						
43 Less FASB 106 Above if not separately removed						
44 Total	(163,885)	-	(163,885)	-	-	

Instructions for Account 283:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

Attachment 8d - Accumulated Deferred Income Taxes (ADIT) Worksheet (End of Year)  
For the 12 months ended 12/31/2021

Ln	Item	Transmission Related	Plant Related	Labor Related	
1	ADIT- 282	(109,314.00)	-	-	Line 30
2	ADIT-283	(25,763.00)	-	-	Line 44
3	ADIT-190	135,077.00	-	-	Line 18
4	Subtotal	-	-	-	Sum of Lines 1-4

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns B-F and each separate ADIT item will be listed. Dissimilar items with amounts exceeding \$100,000 will be listed separately. For ADIT directly related to project depreciation or CWIP, the balance will be shown in a separate row for each project.

	A	B	C	D	E	F	G
	ADIT-190	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
5	Plant related						
6							
7							
8							
9							
10							
11							
12							
13							
14	NOL Carryforward	135,077		135,077			Amount subject to Proration
15	Subtotal - p234.c	135,077	-	135,077	-	-	
16	Less FASB 109 Above if not separately removed						
17	Less FASB 106 Above if not separately removed						
18	Total	135,077	-	135,077	-	-	

## Instructions for Account 190:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

Attachment 8d - Accumulated Deferred Income Taxes (ADIT) Worksheet (End of Year)  
For the 12 months ended 12/31/2021

A	B	C	D	E	F	G
ADIT-282	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
19 Plant related						
20						
21						
22						
23						
24						
25						
26 Plant Items	(109,314)		(109,314)			Amount subject to Proration
27 Subtotal - p275.k	(109,314)	-	(109,314)	-	-	
28 Less FASB 109 Above if not separately removed						
29 Less FASB 106 Above if not separately removed						
30 Total	(109,314)	-	(109,314)	-	-	

## Instructions for Account 282:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

A	B	C	D	E	F	G
ADIT-283	Total	Gas, Prod or Other Related	Transmission Related	Plant Related	Labor Related	Justification
31 Plant related						
32						
33						
34						
35						
36						
37						
38						
39						
40 Depreciation Items	(25,763)		(25,763)			Amount subject to Proration
41 Subtotal - p277.k	(25,763)	-	(25,763)	-	-	
42 Less FASB 109 Above if not separately removed						
43 Less FASB 106 Above if not separately removed						
44 Total	(25,763)	-	(25,763)	-	-	

## Instructions for Account 283:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded. This includes but is not limited to SFAS 109 & 158 balance sheet items and the related ADIT.

## Attachment 8e - Accumulated Deferred Income Taxes (ADIT) Average Worksheet (True-Up)

## GridLiance Heartland LLC

For the 12 months ended 12/31/2021

Ln	A Item	B Transmission Related	C Plant Related	D Labor Related	E (Sum Col. B, C & D) Related
1	ADIT-282	45,963	-	-	Line 12
2	ADIT-283	-	-	-	Line 16
3	ADIT-190	28,176	-	-	Line 20
4	Subtotal	74,138	-	-	Sum of Lines 1-3
5	Wages & Salary Allocator			0.77	Attachment-O Page 4 line 16
6	Net Plant Allocator		0.77		Attachment-O Page 2 line 6
7	Total Plant Allocator	1.00			100%
8	ADIT True-Up Total	74,138	-	-	74,138 Enter as negative Attachment-O, page 2, line 22

	(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Balance	(e) Transmission	(f) Plant Related	(g) Labor Related
ADIT-282							
9	Balance-BOY (Attach 8c, Line 30)	December	2020	(23,684.00)	(23,684.00)	-	-
10	Balance-EOY (Attach 8d, Line 30 less Line 26)	December	2021	-	-	-	-
11	Balance-EOY-Prorated (Attach 8f, Line 14)	December	2021	(85,630.00)	45,962.59	-	-
12	Balance-EOY-Total (Lines 10+11)			(85,630.00)	45,962.59	-	-
ADIT-283							
13	Balance-BOY (Attach 8c, Line 44)	December	2020	(163,885)	(163,885)	-	-
14	Balance-EOY (Attach 8d, Line 44 less Line 40)	December	2021	-	-	-	-
15	Balance-EOY-Prorated (Attach 8f, Line 28)	December	2021	138,122	-	-	-
16	Balance-EOY-Total (Lines 14+15)			138,122	-	-	-
ADIT-190							
17	Balance-BOY (Attach 8c, Line 18)	December	2020	187,569	187,569	-	-
18	Balance-EOY (Attach 8d, Line 18 less Line 14)	December	2021	-	-	-	-
19	Balance-EOY-Prorated (Attach 8f, Line 42)	December	2021	(52,492)	28,176	-	-
20	Balance-EOY-Total (Lines 18+19)			(52,492)	28,176	-	-



## Attachment 8f - Accumulated Deferred Income Taxes (ADIT) Proration Worksheet (True-up)

GridLiance Heartland LLC

For the 12 months ended 12/31/2021

(a) Beginning Balance & Monthly Changes	(b) Month	(c) Year	(d) Weighting for Projection	Transmission									
				(e) Monthly Increment	(f) Proration (d) x (e)	(g) Prorated Projected Balance (Cumulative Sum of f)	(h) Actual Monthly Activity	(i) Difference between projected and actual activity (h)- (e)	(j) Partially prorate actual activity above Monthly projection	(k) Partially prorate actual activity below Monthly projection but increases ADIT	(l) Partially prorate actual activity below Monthly projection and is a reduction to ADIT	(m) Partially prorated actual balance	
ADIT-282-Proration-Note A													
1 Balance (Attach 8c, Line 30)	December	2020	100.00%			(23,684)							-
2 Increment	January	2021	91.78%	(7,136)	(6,549)	(30,233)	-	7,136	7,136	-	-	-	587
3 Increment	February	2021	84.11%	(7,136)	(6,002)	(36,235)	-	7,136	7,136	-	-	-	1,720
4 Increment	March	2021	75.62%	(7,136)	(5,396)	(41,631)	-	7,136	7,136	-	-	-	3,460
5 Increment	April	2021	67.40%	(7,136)	(4,809)	(46,440)	-	7,136	7,136	-	-	-	5,787
6 Increment	May	2021	58.90%	(7,136)	(4,203)	(50,644)	-	7,136	7,136	-	-	-	8,719
7 Increment	June	2021	50.68%	(7,136)	(3,617)	(54,261)	-	7,136	7,136	-	-	-	12,238
8 Increment	July	2021	42.19%	(7,136)	(3,011)	(57,271)	-	7,136	7,136	-	-	-	16,364
9 Increment	August	2021	33.70%	(7,136)	(2,405)	(59,676)	-	7,136	7,136	-	-	-	21,095
10 Increment	September	2021	25.48%	(7,136)	(1,818)	(61,494)	-	7,136	7,136	-	-	-	26,412
11 Increment	October	2021	16.99%	(7,136)	(1,212)	(62,706)	-	7,136	7,136	-	-	-	32,336
12 Increment	November	2021	8.77%	(7,136)	(626)	(63,332)	-	7,136	7,136	-	-	-	38,846
13 Increment	December	2021	0.27%	(7,136)	(20)	(63,351)	-	7,136	7,136	-	-	-	45,963
14 ADIT 282-Prorated EOY Balance				(85,630)	(39,667)		-	85,630	85,630	-	-		
ADIT-283-Proration-Note B													
15 Balance (Attach 8c, Line 44)	December	2020	100.00%			(163,885)							-
16 Increment	January	2021	91.78%	11,510	10,564	(153,321)	-	(11,510)	-	10,564	10,564	-	-
17 Increment	February	2021	84.11%	11,510	9,681	(143,640)	-	(11,510)	-	9,681	9,681	-	-
18 Increment	March	2021	75.62%	11,510	8,704	(134,936)	-	(11,510)	-	8,704	8,704	-	-
19 Increment	April	2021	67.40%	11,510	7,758	(127,179)	-	(11,510)	-	7,758	7,758	-	-
20 Increment	May	2021	58.90%	11,510	6,780	(120,399)	-	(11,510)	-	6,780	6,780	-	-
21 Increment	June	2021	50.68%	11,510	5,834	(114,565)	-	(11,510)	-	5,834	5,834	-	-
22 Increment	July	2021	42.19%	11,510	4,856	(109,708)	-	(11,510)	-	4,856	4,856	-	-
23 Increment	August	2021	33.70%	11,510	3,879	(105,830)	-	(11,510)	-	3,879	3,879	-	-
24 Increment	September	2021	25.48%	11,510	2,933	(102,897)	-	(11,510)	-	2,933	2,933	-	-
25 Increment	October	2021	16.99%	11,510	1,955	(100,942)	-	(11,510)	-	1,955	1,955	-	-
26 Increment	November	2021	8.77%	11,510	1,009	(99,933)	-	(11,510)	-	1,009	1,009	-	-
27 Increment	December	2021	0.27%	11,510	32	(99,901)	-	(11,510)	-	32	32	-	-
28 ADIT 283-Prorated EOY Balance				138,122	63,984		-	(138,122)	-	63,984	63,984		
ADIT-190-Proration-Note C													
29 Balance (Attach 8c, Line 18)	December	2020	100.00%			187,569							360
30 Increment	January	2021	91.78%	(4,374)	(4,015)	183,554	-	4,374	4,374	-	-	-	1,055
31 Increment	February	2021	84.11%	(4,374)	(3,679)	179,875	-	4,374	4,374	-	-	-	2,121
32 Increment	March	2021	75.62%	(4,374)	(3,308)	176,567	-	4,374	4,374	-	-	-	3,547
33 Increment	April	2021	67.40%	(4,374)	(2,948)	173,619	-	4,374	4,374	-	-	-	5,345
34 Increment	May	2021	58.90%	(4,374)	(2,577)	171,042	-	4,374	4,374	-	-	-	7,502
35 Increment	June	2021	50.68%	(4,374)	(2,217)	168,825	-	4,374	4,374	-	-	-	10,031
36 Increment	July	2021	42.19%	(4,374)	(1,846)	166,980	-	4,374	4,374	-	-	-	12,931
37 Increment	August	2021	33.70%	(4,374)	(1,474)	165,505	-	4,374	4,374	-	-	-	16,191
38 Increment	September	2021	25.48%	(4,374)	(1,115)	164,391	-	4,374	4,374	-	-	-	19,822
39 Increment	October	2021	16.99%	(4,374)	(743)	163,648	-	4,374	4,374	-	-	-	23,813
40 Increment	November	2021	8.77%	(4,374)	(384)	163,264	-	4,374	4,374	-	-	-	28,176
41 Increment	December	2021	0.27%	(4,374)	(12)	163,252	-	4,374	4,374	-	-	-	
42 ADIT 190-Prorated EOY Balance				(52,492)	(24,317)		-	52,492	52,492	-	-		

**Note 1** Uses a 365 day calendar year.**Note 2** Actual end of year ADIT must be based solely on enacted tax law. No assumptions for future estimated changes in tax law may be forecasted.**A** Substantial portion, if not all, of the ADIT-282 balance is subject to proration. Explanation must be provided for any portion of balance not subject to proration.**B** Only amounts in ADIT-283 relating to Depreciation, if applicable, are subject to proration. See Line 44 in Attach 8c and 8d.**C** Only amounts in ADIT-190 related to net operating loss carryforwards, if applicable, are subject to proration. See Line 18 in Attach 8c and 8d.

GridLiance Heartland LLC

For the 12 months ended 12/31/2021

[illegible]

GridLiance Heartland LLC

For the 12 months ended 12/31/2021

[illegible]

Attachment 9 Income Tax Allowance GridLiance Heartland LLC Calculation of Effective Tax Rate												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
				Corporations - Including C	S Corps, PTEs	Individuals (including foreign), estates & trusts	Mutual funds	Trusts	UBTI entities - pension funds, IRA, Keogh Plans	Tax Exempt Entities	Weighted Average Income Tax Rate (Sum Cols. 5- 11)	Total (Sum Cols. 5- 11)
Line No. Description	Note	Source		Corps								
(a)				(b)	(c)	(c)	(d)	(e)	(f)	(h)	(i)	
1	FIT = Weighted Marginal Federal Income Tax Rate	Note A		21.00%	29.60%	29.60%	15.00%	21.00%	21.00%	0.00%		
2	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	47.16%	0.00%	0.00%	0.00%	0.00%	6.10%	46.74%		
3	Weighted Average Federal Income Tax Rate		(Line 1 * Line 2)	9.90%	0.00%	0.00%	0.00%	0.00%	1.28%	0.00%	11.18%	
4	SIT = Weighted Marginal State Income Tax Rate	Note A	(Page 2, Col. (5), Line 6)	8.81%	8.81%	8.81%	8.81%	8.81%	8.81%	0.00%		
5	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	47.16%	0.00%	0.00%	0.00%	0.00%	6.10%	46.74%		
6	Weighted Average State Income Tax Rate		(Line 4 * Line 5)	4.16%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	4.69%	
7	p = Weighted Average State Income Tax Rate Value of Federal Tax Deductible	Note B	(Page 2, Col. 56, Line 6)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
8	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	47.16%	0.00%	0.00%	0.00%	0.00%	6.10%	46.74%		
9	Weighted Average X		(Line 7 * Line 8)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Projected Distributive Share of Income from Transmission Investment	Note C	(Col. 10, Lines 37 - 43)	47.12%	0.00%	0.07%	0.00%	0.00%	6.10%	46.71%		100.00%
11	Income Tax Allowance (ITA)	Note D	Line 10, Col. (13) - Col. (11)									53.29%
12	Composite Income Tax Rate [T=SIT * (1-FIT) + FIT - (p * FIT)]	@	ITA = 53.29%	13.65%	0.00%	0.00%	0.00%	0.00%	1.81%	0.00%	15.46%	
13	Private Equity (PE) Investment Ownership of GridLiance Heartland LLC (GL) Note F			49.60%	46.20%	0.40%	1.90%	1.90%				100.00%
14	Ownership of Funds by FERC Categories of Investors	Note F		BCP VI	BEP II/ILF	BCP VI SBS	BEP II SBS	BTAS				
15	Corporations - Including C Corps	Note F		49.15%	49.30%	0.00%	0.00%	0.00%				19.69%
16	S Corps, PTEs	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
17	Individuals (including foreign, estates & trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
18	Mutual funds	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
19	Trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
20	UBTI entities - pension funds, IRA, Keogh Plans	Note F		6.44%	6.29%	0.00%	0.00%	0.00%				2.55%
21	Tax Exempt Entities	Note F		44.41%	44.41%	100.00%	100.00%	100.00%				77.76%
22				100.00%	100.00%	100.00%	100.00%	100.00%				100.00%
23												
24	Weighted Average PE Ownership of GLH by FERC Categories of Investors			BCP VI	BEP II/ILF	BCP VI SBS	BEP II SBS	BTAS				
25	Corporations - Including C Corps	(Line 13 * Line 14)		24.38%	22.78%	0.00%	0.00%	0.00%				47.16%
26	S Corps, PTEs	(Line 13 * Line 15)		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
27	Individuals (including foreign, estates & trusts	(Line 13 * Line 16)		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
28	Mutual funds	(Line 13 * Line 17)		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
29	Trusts	(Line 13 * Line 18)		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
30	UBTI entities - pension funds, IRA, Keogh Plans	(Line 13 * Line 19)		3.19%	2.91%	0.00%	0.00%	0.00%				6.10%
31	Tax Exempt Entities	(Line 13 * Line 20)		22.03%	20.52%	0.40%	1.90%	1.90%				46.74%
32				49.60%	46.20%	0.40%	1.90%	1.90%				100.00%
33												
34												
35												
36												
37												
38				Corporations - Including C Corps	47.16%	Corporations (feeder LP)	47.12%	47.12%				
39				S Corps, PTEs	0.00%	S Corps, PTEs	0.00%	0.00%				
40				Individuals (including foreign), estates & trusts	0.00%	Individuals	0.00%	0.07%				
41				Mutual funds	0.00%	Mutual Funds	0.00%	0.00%				
42				Trusts	0.00%	Trusts	0.00%	0.00%				
43				UBTI entities - pension funds, IRA, Keogh Plans	6.10%	UBTI Entities	6.10%	6.10%				
44				Tax Exempt Entities	46.74%	Non-Taxpaying Entities	46.71%	46.71%				
45					100.00%	Private Equity Ownership (Note E)	99.93%	100.00%				
46						Separate Individual Ownership (Note F)	0.07%					
							100.00%					

- Notes:
- A Represents the weighted average federal or state tax rate for each category of partners. Support to be provided for the use of any marginal federal income tax rate that differs from any applicable presumptive marginal federal income tax rates that have been adopted by the Commission.
  - B From Page 2 below.
  - C Calculation of ownership by category of investor.
  - D Income Tax Allowance (ITA) equals one less the ownership percentage of tax exempt entities and is based upon the Commission's order in Docket Nos. ER18-2342, EL19-29, and ER19-2488.
  - E One (1) minus Separate Individual Ownership (Line 45).
  - F Based on GLH records.

Attachment 9 Income Tax Allowance GridLiance Heartland LLC						
(1)	(2)	(3)	(4)	(5)	(6)	
Line No.	State	Apportionment based on situs gross plant	State Income Tax Rate	Percent Federal Taxes Deductible	Weighted Rate (Col. 2 * Col. 3)	Weighted Rate for Impact of Federal Tax Deductibility (Col. 2 * Col. 3)
1	Illinois	72.47%	9.50%	0.00%	6.88%	0.00%
2	Kentucky	27.53%	7.00%	0.00%	1.93%	0.00%
3	State 3	0.00%	0.00%	0.00%	0.00%	0.00%
4	State 4	0.00%	0.00%	0.00%	0.00%	0.00%
5	State 5	0.00%	0.00%	0.00%	0.00%	0.00%
6	Total Weighted Average				8.81%	0.00%

Attachment 9a Actual ownership GridLiance Heartland LLC For Informational Purposes Only												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Line No.	Description	Note	Source	Corporations - Including C Corps	S Corps, PTEs	Individuals (including foreign), estates & trusts	Mutual funds	Trusts	UBTI entities - pension funds, IRA, Keogh Plans	Tax Exempt Entities	Average Income Tax Rate (Sum Cols. 5- 11)	Total (Sum Cols. 5- 11)
(a)				(b)		(c)	(d)	(e)	(f)	(h)	(i)	
1	FIT = Weighted Marginal Federal Income Tax Rate	Note A		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
2	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
3	Weighted Average Federal Income Tax Rate		(Line 1 * Line 2)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	SIT = Weighted Marginal State Income Tax Rate	Note A	(Page 2, Col. (5), Line 6)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
5	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
6	Weighted Average State Income Tax Rate		(Line 4 * Line 5)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	p = Weighted Average State Income Tax Rate Value of Federal Tax Deductibility	Note B	(Page 2, Col. 56, Line 6 )	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
8	Partners with Actual or Potential Income Tax Liability	Note C	(Col. 13, Lines 25 - 31)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
9	Weighted Average X		(Line 7 * Line 8)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Projected Distributive Share of Income from Transmission Investment	Note C	(Col. 10, Lines 37 - 43)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%
11	Income Tax Allowance (ITA)	Note D	(Line 10, Col. (13) - Col. (11))									0.00%
12	Composite Income Tax Rate [T=SIT * (1-FIT) + FIT - (p * FIT)]		@ ITA = 0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Private Equity (PE) Investment Ownership of GridLiance Heartland LLC (GLH)	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
14	Ownership of Funds by FERC Categories of Investors	Note F		-	-	-	-	-				
15	Corporations - Including C Corps	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
16	S Corps, PTEs	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
17	Individuals (including foreign), estates & trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
18	Mutual funds	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
19	Trusts	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
20	UBTI entities - pension funds, IRA, Keogh Plans	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
21	Tax Exempt Entities	Note F		0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
22				0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
23				Weighted								
24	Weighted Average PE Ownership of GLH by FERC Categories of Investors			-	-	-	-	-				
25	Corporations - Including C Corps		(Line 13 * Line 14)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
26	S Corps, PTEs		(Line 13 * Line 15)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
27	Individuals (including foreign), estates & trusts		(Line 13 * Line 16)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
28	Mutual funds		(Line 13 * Line 17)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
29	Trusts		(Line 13 * Line 18)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
30	UBTI entities - pension funds, IRA, Keogh Plans		(Line 13 * Line 19)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
31	Tax Exempt Entities		(Line 13 * Line 20)	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
32				0.00%	0.00%	0.00%	0.00%	0.00%				0.00%
33												
34												
35				Weighted Average Private Equity Ownership				Total Ownership		Total Ownership Adjusted		
36				Corporations - Including C Corps				0.00%		0.00%		
37				S Corps, PTEs				0.00%		0.00%		
38				Individuals (including foreign), estates & trusts				0.00%		0.00%		
39				Mutual funds				0.00%		0.00%		
40				Trusts				0.00%		0.00%		
41				UBTI entities - pension funds, IRA, Keogh Plans				0.00%		0.00%		
42				Tax Exempt Entities				0.00%		0.00%		
43				Non-Taxpaying Entities				0.00%		0.00%		
44				Private Equity Ownership (Note E)				0.00%		0.00%		
45				Separate Individual Ownership (Note F)				0.00%				
46								0.00%				

Notes:

A Represents the weighted average federal or state tax rate for each category of partners. Support to be provided for the use of any marginal federal income tax rate that differs from any applicable presumptive marginal federal income tax rates that have been adopted by the Commission.

B From Page 2 below.

C Calculation of ownership by category of investor.

D Upon request, GridLiance Heartland will provide any relevant ownership agreements to support the ownership categories and associated inputs used to calculate GridLiance Heartland's income tax liability

E Upon request, GridLiance Heartland will provide supporting documents, including tax returns or, where the federal income tax rate is concerned, notice that GridLiance Heartland elected to take the 20 percent deduction available to pass-through entities.

F Based on GLH records.

Attachment 9a Actual ownership GridLiance Heartland LLC						
(1)	(2)	(3)	(4)	(5)	(6)	
Line No.	State	Apportionment based on situs gross plant	State Income Tax Rate	Percent Federal Taxes Deductible	Weighted Rate (Col. 2 * Col. 3)	Weighted Rate for Impact of Federal Tax Deductibility (Col. 2 * Col. 4)
1	State 1	0.00%	0.00%	0.00%	0.00%	0.00%
2	State 2	0.00%	0.00%	0.00%	0.00%	0.00%
3	State 3	0.00%	0.00%	0.00%	0.00%	0.00%
4	State 4	0.00%	0.00%	0.00%	0.00%	0.00%
5	State 5	0.00%	0.00%	0.00%	0.00%	0.00%
6	Total Weighted Average				0.00%	0.00%

## **Attachment B**

List of Accounting Changes Affecting  
Formula Rate Inputs

**ACCOUNTING CHANGES THAT AFFECT FORMULA RATE INPUTS****2021 PROJECTED NET REVENUE REQUIREMENT**

Section IV.A.(1)(iv) of GridLiance Heartland's Formula Rate Protocols require GridLiance Heartland to identify and describe any accounting changes that affect inputs to the formula rate or the resulting charges billed under the formula rate. The table below identifies each accounting change GridLiance Heartland is required to describe pertaining to its 2021 projected net revenue requirement.

SECTION	REQUIREMENT	DESCRIPTION OF ACCOUNTING CHANGE
<b>II.F.4.a.i.</b>	With respect to any change in accounting that affects inputs to the formula rate or the resulting charges billed under the formula rate ("Accounting Change"): a. Identify any Accounting Changes, including:  i. the initial implementation of an accounting standard or policy;	None
<b>II.F.4.a.ii.</b>	ii. the initial implementation of accounting practices for unusual or unconventional items where FERC has not provided specific accounting direction;	None
<b>II.F.4.a.iii.</b>	(iii) correction of errors and prior period adjustments that impact the projected net revenue requirement calculation;	None
<b>II.F.4.a.iv.</b>	(iv) the implementation of new estimation methods or policies that change prior estimates; and	None
<b>II.F.4.a.v.</b>	(v) changes to income tax elections;	None
<b>II.F.4.b.</b>	Identify items included in the projected net revenue requirement at an amount other than on a historic cost basis (e.g. fair value adjustments);	None
<b>II.F.4.c.</b>	Identify any reorganization or merger transaction during the previous year and explain the effect of the accounting for such transaction(s) on inputs to the projected net revenue requirement;	None
<b>II.F.4.d.</b>	Provide, for each item identified pursuant to items II.F.4.a – II.F.4.c of these protocols, a narrative explanation for the individual impact of such changes on the projected net revenue requirement.	None

## **Attachment C**

GridLiance Heartland's Notice of  
its October 22, 2020 Annual  
Projection Rate Meeting for  
RY2021.



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**From:** Transmission Rate Notifications (TRN) <MISOTRN@LISTS.MISOENERGY.ORG> **On Behalf Of** Heidi Roy  
**Sent:** Friday, October 2, 2020 13:28  
**To:** MISOTRN@LISTS.MISOENERGY.ORG  
**Subject:** [MISO] Formula Rate Posting Notice

Dear Stakeholders,

Attachment O rate materials have been posted to the MISO website/OASIS for the following:

- [GridLiance Heartland LLC](#)

Information may be accessed via the URL or path below.

<https://www.misoenergy.org/markets-and-operations/settlements/to-rate-data/>

Markets and Operations > Settlements > Transmission Owner Rate Data

Thank you.

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To **unsubscribe**, login to your [Profile](#) on the MISO public website. Scroll down to the **Mailing Lists** section. Click on the checkbox next to the appropriate list(s) to unsubscribe and click the "Update Subscriptions" button.

Do not reply to this message. If you have questions, please contact [Stakeholder Relations](#).



October 15, 2020

**Stakeholders:**

In accordance with its Formula Rate Protocols, GridLiance Heartland LLC (GridLiance Heartland) will hold a stakeholder meeting to review the annual projection net revenue requirement for the 2021 rate year (2021 Projection) on Thursday, October 22, 2020.

This meeting provides an opportunity for GridLiance Heartland to explain the 2021 Projection and interested parties to seek information and clarification. GridLiance Heartland owns facilities under the functional control of the Midcontinent Independent System Operator (MISO) along with facilities outside of MISO.

For facilities under MISO functional control, the 2021 Projection and supporting documents can be found on the MISO Transmission Owner Rate data page:

[www.misoenergy.org/markets-and-operations/settlements/to-rate-data/gridliance-heartland-llc/](http://www.misoenergy.org/markets-and-operations/settlements/to-rate-data/gridliance-heartland-llc/)

For facilities outside of MISO, the 2021 Projection and supporting documents can be found on the GridLiance Heartland website:

[www.gridliance.com/heartland/](http://www.gridliance.com/heartland/)

**GridLiance Heartland 2021 Projection stakeholder meeting**

Thursday, October 22, 2020

2:00 PM (Central)

**Attend by Teleconference**

Toll-free number: +1 844-624-7600

Alternate number: +1 806-701-1129

Conference ID: 372 698 214#

Optional online meeting: [Click this link to join](#)

Email inquiries to [rates@gridliance.com](mailto:rates@gridliance.com)

## **Attachment D**

GridLiance Heartland's October 22,  
2020 Annual Projection Rate  
Meeting Presentation for RY2021.



# 2021 Projection Stakeholder Meeting GridLiance Heartland LLC

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October 22, 2020



# Agenda

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- Introduction
- GridLiance Heartland Overview
- GridLiance Heartland (MISO)
- Formula Rate Projection for Rate Year 2021 (MISO)
- Discussion
- GridLiance Heartland (Non-MISO)
- Formula Rate Projection for Rate Year 2021 (Non-MISO)
- Discussion



# GridLiance Heartland Overview

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GridLiance Heartland LLC (GridLiance Heartland) is a stand-alone, competitive electric transmission-only utility that owns facilities under the functional control of the Midcontinent Independent System Operator (MISO). These assets are recovered under a formula rate initially approved in FERC Docket No. ER19-2050.

GridLiance Heartland also owns and operates facilities outside of MISO. These assets are recovered under a formula rate initially approved in FERC Docket No. ER19-2092.

## Selected milestones

- January 2020 – FERC (EC20-13) conditionally authorizes GridLiance Heartland to acquire certain transmission assets from Electric Energy, Inc.
- January 2020 – FERC (ER20-520) accepts formula rate revisions for GridLiance Heartland (MISO) to incorporate rate mitigation credits.
- March 2020 – GridLiance Heartland transfers functional control of certain transmission assets to MISO and begins operating certain transmission assets outside of MISO.



## GridLiance Heartland (MISO)

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# Formula Rate Matters

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## *GridLiance Heartland (MISO)*

Notable recent or pending formula rate matters at FERC

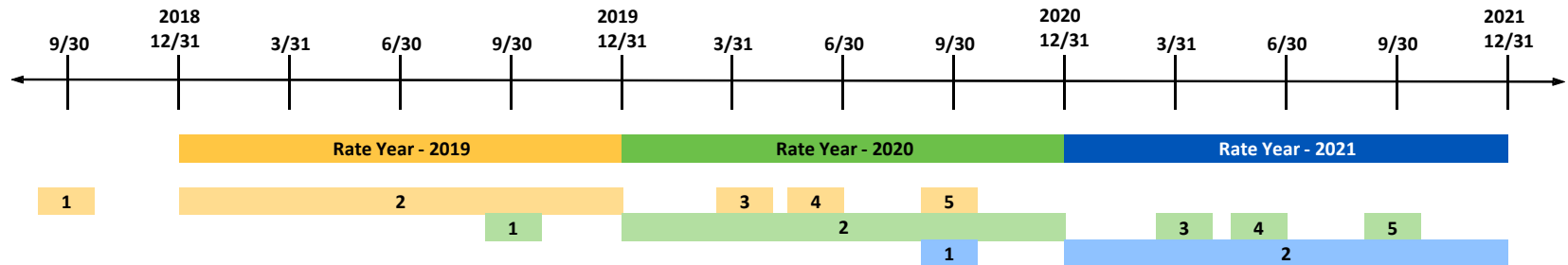
- February 19, 2020 (ER19-2050-004)  
Compliance filing setting income tax allowance (ITA) to 72.13 percent
  - March 1, 2020 effective date requested
  - Awaiting FERC action
- April 28, 2020 (ER20-1669)  
Compliance filing lowering ITA to 53.29 percent
  - July 1, 2020 effective date requested
  - Awaiting FERC action
- September 30, 2020 (ER20-3034)  
Compliance filing for Order No. 864 (ADIT remeasurement)
  - December 1, 2020 effective date requested
  - Awaiting FERC action





# Formula Rate Timeline

## *GridLiance Heartland (MISO) Rate Year Process*



### For Rate Year – 2019\*

- 1 Publish 2019 projected ATRR by September 30, 2018
- 2 Collect 2019 estimated/forecasted ATRR over the Rate Year - 2019
- 3 Calculate true-up based on 2019 FERC Form No. 1 submitted in mid April 2020
- 4 Provide finalized true-up to stakeholders and post to GridLiance website on or before June 30, 2020
- 5 Incorporate actual recovery/return into 2021 projection

### For Rate Year – 2020\*

- 1 Publish 2020 projected ATRR by September 30, 2019
- 2 Collect 2020 estimated/forecasted ATRR over the Rate Year - 2020
- 3 Calculate true-up based on 2020 FERC Form No. 1 submitted in mid April 2021
- 4 Provide finalized true-up to stakeholders and post to GridLiance website on or before June 30, 2021
- 5 Include actual recovery/return into 2022 projection

### For Rate Year - 2021

- 1 Publish 2021 projected ATRR by September 30, 2020
- 2 Collect the 2021 estimated/forecasted ATRR over the Rate Year - 2021

*Continues going forward consistent with Rate Years 2019 and 2020\**

\* GridLiance Heartland became a transmission owner in March 2020. Certain activities for rate years 2019 and 2020 did not occur but are shown to illustrate typical rate year processes across calendar years.



# Formula Rate Timeline

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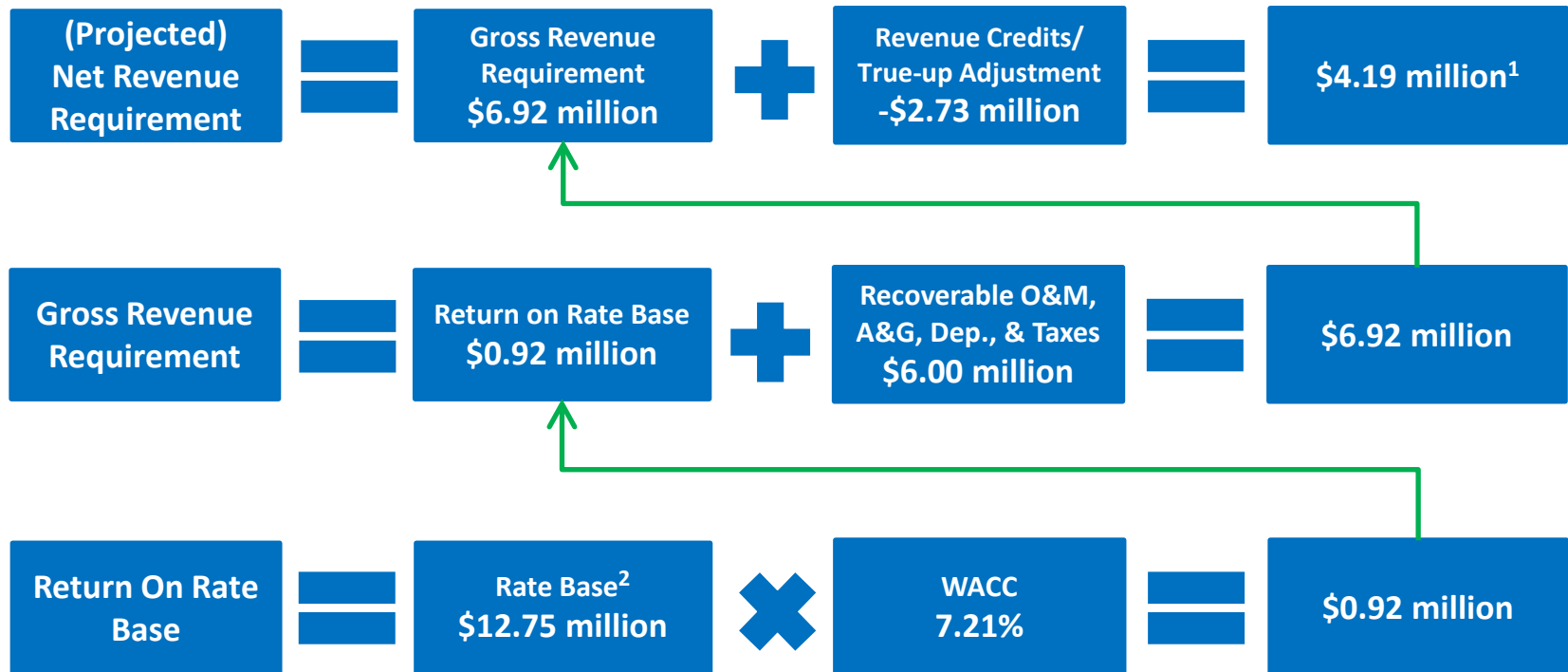
## *Selected GridLiance Heartland (MISO) 2020 milestones*

- March 1 – GridLiance Heartland becomes transmission owner in MISO
- September 25 – Publication of 2021 Projection
- October 22 – Stakeholder meeting for 2021 Projection
- December 1 – Scheduled end of information request period
- January 1, 2021 – Rates incorporating 2021 Projection become effective



# Formula Rate Components

## *GridLiance Heartland (MISO) Projected Net Revenue Requirement Calculation*



<sup>1</sup> Refer to next slide for details of the Projected Net Revenue Requirement calculation.

<sup>2</sup> Rate Base is calculated as the 13-month average Net PP&E with miscellaneous adjustments.



# 2021 Projected Revenue Requirement Summary

## *GridLiance Heartland (MISO)*

<b>Att. O Reference</b>	<b>Return on Rate Base</b>	
Page 2, Line 30	Rate Base <sup>1</sup>	\$12,754,819
Page 4, Line 30	Rate of Return	7.21%
Page 3, Line 28	<b>Return on Rate Base</b>	<b>\$919,878</b>
	<b>Recoverable Operating Expenses</b>	
Page 3, Line 8	O&M and A&G Expenses	\$5,276,529
Page 3, Line 12	Depreciation Expenses	\$430,334
Page 3, Line 20	Taxes Other Than Income Taxes	\$141,241
Page 3, Line 27	Income Taxes	\$148,253
Sum	<b>Total Recoverable Operating Expenses</b>	<b>\$5,996,357</b>
	<b>Projected Gross Revenue Requirement</b>	
above	Return on Rate Base	\$919,878
above	Total Recoverable Operating Expenses	\$5,996,357
Page 3, Line 28	<b>Projected Gross Revenue Requirement</b>	<b>\$6,916,235</b>
	<b>Projected Net Revenue Requirement</b>	
above	Projected Gross Revenue Requirement	\$6,916,235
Page 3, Lines 30/30a/30b	Attachments GG and MM Adjustments	\$0
Page 3, Line 30c	Regulatory Adjustment	-\$2,650,000
Page 1, Line 6	Revenue Credits	-\$75,000
Page 1, Line 6c	True-up Adjustment	\$0
Page 1, Line 7	<b>Projected Net Revenue Requirement</b>	<b>\$4,191,235</b>

*All values in dollars unless otherwise noted*

<sup>1</sup>Rate Base is calculated as the 13-month average Net Plant, Property, and Equipment, adjusted for miscellaneous items including deferred income taxes and working capital



# Discussion

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Direct inquiries to [rates@gridliance.com](mailto:rates@gridliance.com)



## GridLiance Heartland (Non-MISO)

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# Formula Rate Matters

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## *GridLiance Heartland (Non-MISO)*

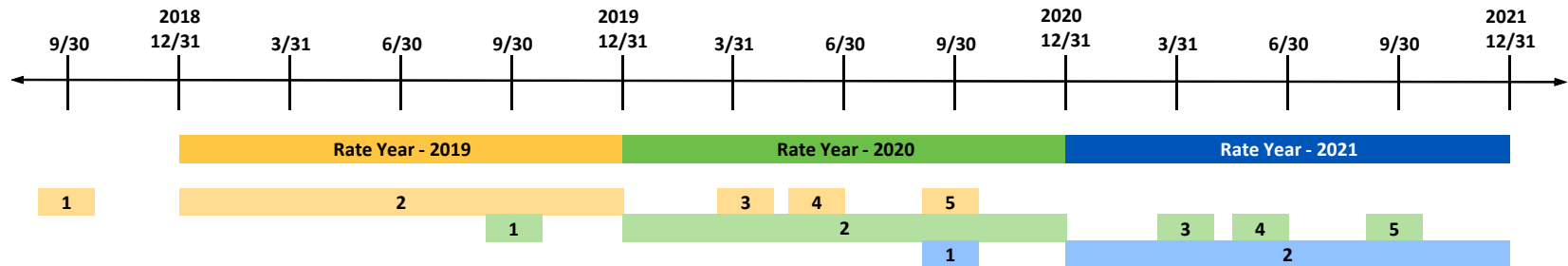
Notable recent or pending formula rate matters at FERC

- February 19, 2020 (ER20-1039)  
Compliance filing setting income tax allowance (ITA) to 72.13 percent
  - March 1, 2020 effective date requested
  - Awaiting FERC action
- April 28, 2020 (ER20-1039)  
Compliance filing lowering ITA to 53.29 percent
  - July 1, 2020 effective date requested
  - Awaiting FERC action
- September 28, 2020 (ER20-3009)  
Compliance filing for Order No. 864 (ADIT remeasurement)
  - December 1, 2020 effective date requested
  - Awaiting FERC action



# Formula Rate Timeline

## *GridLiance Heartland (Non-MISO) Rate Year Process*



### For Rate Year – 2019\*

- 1 Publish 2019 projected ATRR by September 30, 2018
- 2 Collect 2019 estimated/forecasted ATRR over the Rate Year - 2019
- 3 Calculate true-up based on 2019 FERC Form No. 1 submitted in mid April 2020
- 4 Provide finalized true-up to stakeholders and post to GridLiance website on or before June 30, 2020
- 5 Incorporate actual recovery/return into 2021 projection

### For Rate Year – 2020\*

- 1 Publish 2020 projected ATRR by September 30, 2019
- 2 Collect 2020 estimated/forecasted ATRR over the Rate Year - 2020
- 3 Calculate true-up based on 2020 FERC Form No. 1 submitted in mid April 2021
- 4 Provide finalized true-up to stakeholders and post to GridLiance website on or before June 30, 2021
- 5 Include actual recovery/return into 2022 projection

### For Rate Year - 2021

- 1 Publish 2021 projected ATRR by September 30, 2020
- 2 Collect the 2021 estimated/forecasted ATRR over the Rate Year - 2021

*Continues going forward consistent with Rate Years 2019 and 2020\**

\* GridLiance Heartland became a transmission owner in March 2020. Certain activities for rate years 2019 and 2020 did not occur but are shown to illustrate typical rate year processes across calendar years.





# Formula Rate Timeline

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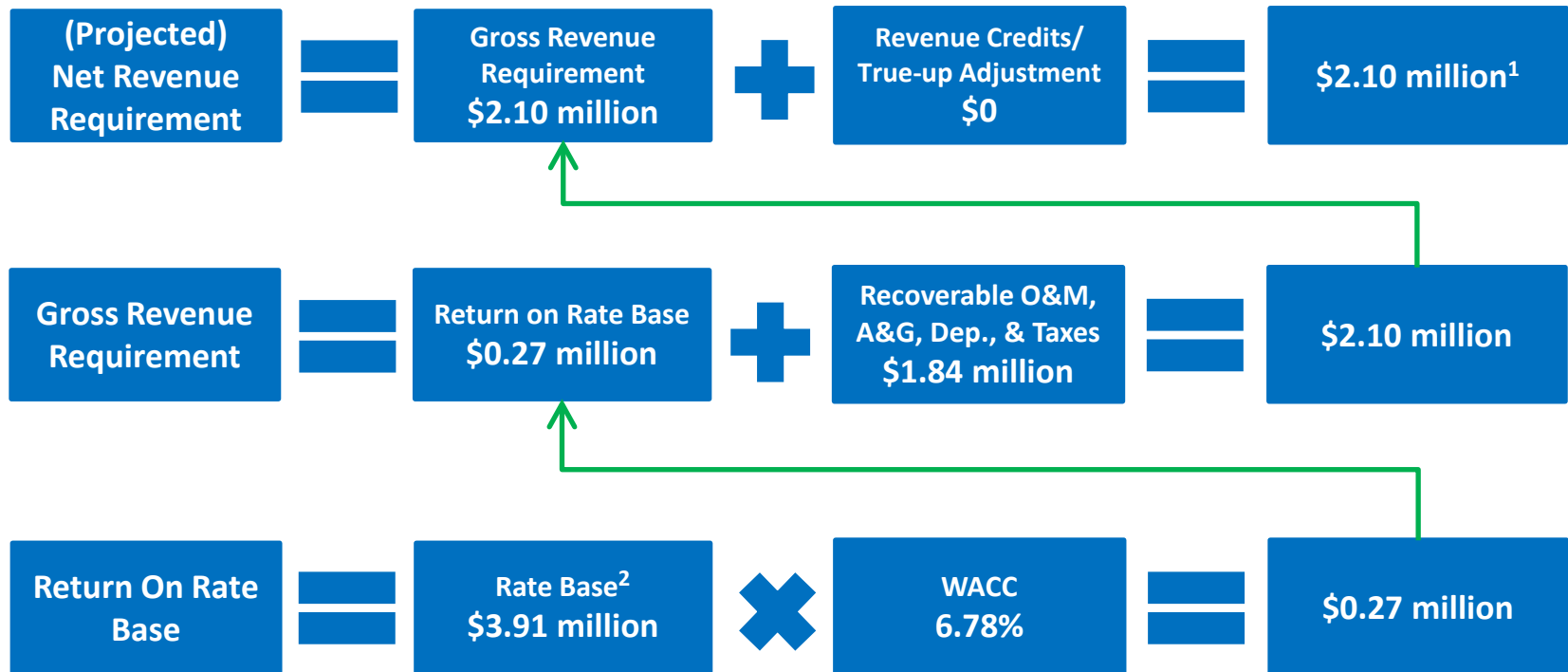
## *GridLiance Heartland (Non-MISO) Selected 2020 milestones*

- March 1 – GridLiance Heartland begins operating transmission assets
- September 25 – Publication of 2021 Projection
- October 22 – Stakeholder meeting for 2021 Projection
- December 1 – Scheduled end of information request period
- January 1, 2021 – Rates incorporating 2021 Projection become effective



# Formula Rate Components

## *GridLiance Heartland (Non-MISO) Projected Net Revenue Requirement Calc.*



<sup>1</sup> Refer to next slide for details of the Projected Net Revenue Requirement calculation.

<sup>2</sup> Rate Base is calculated as the 13-month average Net PP&E with miscellaneous adjustments.



# 2021 Projected Revenue Requirement Summary

## *GridLiance Heartland (Non-MISO)*

<b>Att. 9A Reference</b>	<b>Return on Rate Base</b>	
Page 2, Line 30	Rate Base <sup>1</sup>	\$3,911,262
Page 4, Line 30	Rate of Return	6.78%
Page 3, Line 28	<b>Return on Rate Base</b>	<b>\$265,184</b>
	<b>Recoverable Operating Expenses</b>	
Page 3, Line 8	O&M and A&G Expenses	\$1,618,046
Page 3, Line 12	Depreciation Expenses	\$131,962
Page 3, Line 20	Taxes Other Than Income Taxes	\$43,312
Page 3, Line 27	Income Taxes	\$42,372
Sum	<b>Total Recoverable Operating Expenses</b>	<b>\$1,835,692</b>
	<b>Projected Gross Revenue Requirement</b>	
above	Return on Rate Base	\$265,184
above	Total Recoverable Operating Expenses	\$1,835,692
Page 3, Line 28	<b>Projected Gross Revenue Requirement</b>	<b>\$2,100,875</b>
	<b>Projected Net Revenue Requirement</b>	
above	Projected Gross Revenue Requirement	\$2,100,875
Page 3, Lines 30:30b	Attachments GG and MM Adjustments	\$0
Page 1, Line 6	Revenue Credits	\$0
Page 1, Line 6c	True-up Adjustment	\$0
Page 1, Line 7	<b>Projected Net Revenue Requirement</b>	<b>\$2,100,875</b>

*All values in dollars unless otherwise noted*

<sup>1</sup>Rate Base is calculated as the 13-month average Net Plant, Property, and Equipment, adjusted for miscellaneous items including deferred income taxes and working capital



# Discussion

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Direct inquiries to [rates@gridliance.com](mailto:rates@gridliance.com)



# Appendices

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# Appendix A – Rate Base<sup>1</sup>

## *GridLiance Heartland (MISO)*

Month	Year	Transmission Plant in Service	Transmission Accumulated Depreciation	Transmission Net Plant
December	2020	\$21,127,324	\$9,895,905	\$11,231,419
January	2021	\$21,127,324	\$9,931,117	\$11,196,207
February	2021	\$21,127,324	\$9,966,329	\$11,160,995
March	2021	\$21,127,324	\$10,001,541	\$11,125,783
April	2021	\$21,127,324	\$10,036,753	\$11,090,571
May	2021	\$21,127,324	\$10,071,966	\$11,055,358
June	2021	\$21,127,324	\$10,107,178	\$11,020,146
July	2021	\$21,127,324	\$10,142,390	\$10,984,934
August	2021	\$21,127,324	\$10,177,602	\$10,949,722
September	2021	\$21,127,324	\$10,212,814	\$10,914,510
October	2021	\$21,127,324	\$10,248,027	\$10,879,297
November	2021	\$21,127,324	\$10,283,239	\$10,844,085
December	2021	\$25,799,955	\$10,326,239	\$15,473,716
<b>13-month average</b>		<b>\$21,486,757</b>	<b>\$10,107,777</b>	<b>\$11,378,980</b>

*All values in dollars unless otherwise noted*

<sup>1</sup> Table excludes other adjustments to rate base items such as ADIT, unamortized regulatory assets, and working capital



# Appendix B – WACC

## *GridLiance Heartland (MISO)*

<b>Att. 5 Reference</b>	<b>Description</b>	<b>Total</b>	<b>Percent</b>	<b>Cost</b>	<b>Weighted</b>
Line 34	Long Term Debt	\$0.40	40.00%	2.25%	0.90%
Line 35	Preferred Stock	\$0.00	0.00%	0.00%	0.00%
Line 36	Common Stock	\$0.60	60.00%	10.52%	6.31%
<b>Total</b>		<b>\$1.00</b>			<b>7.21%</b>



# Appendix C – Rate Base<sup>1</sup>

## *GridLiance Heartland (Non-MISO)*

Month	Year	Transmission Plant in Service	Transmission Accumulated Depreciation	Transmission Net Plant
December	2020	\$6,478,688	\$3,034,576	\$3,444,111
January	2021	\$6,478,688	\$3,045,374	\$3,433,314
February	2021	\$6,478,688	\$3,056,172	\$3,422,516
March	2021	\$6,478,688	\$3,066,970	\$3,411,718
April	2021	\$6,478,688	\$3,077,767	\$3,400,920
May	2021	\$6,478,688	\$3,088,565	\$3,390,122
June	2021	\$6,478,688	\$3,099,363	\$3,379,325
July	2021	\$6,478,688	\$3,110,161	\$3,368,527
August	2021	\$6,478,688	\$3,120,959	\$3,357,729
September	2021	\$6,478,688	\$3,131,757	\$3,346,931
October	2021	\$6,478,688	\$3,142,554	\$3,336,133
November	2021	\$6,478,688	\$3,153,352	\$3,325,336
December	2021	\$7,911,548	\$3,166,538	\$4,745,010
<b>13-month average</b>		<b>\$6,588,908</b>	<b>\$3,099,547</b>	<b>\$3,489,361</b>

*All values in dollars unless otherwise noted*

<sup>1</sup> Table excludes other adjustments to rate base items such as ADIT, unamortized regulatory assets, and working capital





# Appendix D – WACC

## *GridLiance Heartland (Non-MISO)*

<b>Att. 5 Reference</b>	<b>Description</b>	<b>Total</b>	<b>Percent</b>	<b>Cost</b>	<b>Weighted</b>
Line 34	Long Term Debt	\$0.40	40.00%	2.25%	0.90%
Line 35	Preferred Stock	\$0.00	0.00%	0.00%	0.00%
Line 36	Common Stock	\$0.60	60.00%	9.80%	5.88%
<b>Total</b>		<b>\$1.00</b>			<b>6.78%</b>

## **Attachment E**

Questions of Illinois Municipal Electric  
Agency regarding GridLiance  
Heartland's RY2021 Annual  
Projection, dated November 18, 2020,  
and GridLiance Heartland's  
Responses, dated December 9, 2020.

**From:** [Mary Ann Todd](#)  
**To:** [Rates](#)  
**Cc:** [Rakesh Kothakapu](#)  
**Subject:** 2021 Projection Stakeholder Meeting - GridLiance Heartland LLC  
**Date:** Wednesday, November 18, 2020 8:05:02 AM

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Good morning,

IMEA attended the above-referenced meeting, as hosted by GridLiance on October 22, 2020. We had the following questions after the presentation. Are you the correct person to address these? If not, whom would I need to contact? I appreciate your help with this, Mary Ann/IMEA

Mary Ann Todd  
Illinois Municipal Electric Agency  
Springfield, Illinois

- Of the \$5.2M allotted for A&G, what are the specific Operational Costs? Slide 8, Can we have additional details of the break down.
- Of the Total Payroll, what is the Heartland GridLiance portion MISO of the GL expenses?
- What Assets are included in this Transition to Plant in Service? With respect to Current MISO and Future MISO.
  - o What is the current Transmission cost (revenue) Vistra is paying for the non-MISO transmission portion?
- What is the exact purchase price of the \$21M Asset?
- Are there any Acquisition costs in the O&M and A&G expenses?
- What are the Carrying costs?
- How are A&G expenses allotted to MISO and Non-MISO portion?
- How are O&M expenses allotted to MISO and Non-MISO Portion?
- Depreciation cycle of the assets? Expected asset life? MISO and non-MISO

**From:** [Kathy Patton](#)  
**To:** [Mary Ann Todd](#)  
**Cc:** [Joe Loner](#); [Janet Virga](#)  
**Subject:** Responses to IMEA Questions  
**Date:** Wednesday, December 9, 2020 8:36:08 AM  
**Attachments:** [\\_GridLiance Heartland LLC 2021 Projection\\_ Questions received from IMEA 11-18-2020\\_v1 responses.docx](#)  
[image001.png](#)  
[image002.png](#)

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Mary Ann,

I've attached GridLiance's responses to your questions.

Please let me know if you have any additional questions.

Kathy

**Kathy Patton**

**VP and Associate General Counsel - Regulatory**

201 E. John Carpenter Freeway Suite 900 Irving TX 75062

**T** 972.476.0154 **M** 713.206.0521

[kpatton@gridliance.com](mailto:kpatton@gridliance.com)

GRIDLIANCE

A  *Blackstone Company*

## GridLiance Heartland LLC - 2021 Projection

### Questions received from Illinois Municipal Electric Agency on 11/18/2020

1. *Question: Of the \$5.2M allotted for A&G, what are the specific Operational Costs? Slide 8, Can we have additional details of the break down.*

- Response: The \$5.3MM referenced is not just A&G, but that amount also includes O&M costs as broken down below. Note these costs include both internal and third-party costs to manage the GL Heartland utility including functions such as operations/engineering/planning, compliance, legal/regulatory, accounting/finance, information technology and other support functions

	(\$ millions)
O&M expenses	2.1
A&G expenses	<u>3.2</u>
O&M and A&G expenses	5.3

2. *Question: Of the Total Payroll, what is the GridLiance Heartland MISO portion of the GL expenses?*

- Response: Less than 20% of the projected GridLiance payroll costs are included in the GridLiance Heartland MISO 2021 Projection

3. *Question: What Assets are included in this Transmission Plant in Service? With respect to Current MISO and Future MISO.*

- Response: Below is a breakdown of the assets included in the 2021 Projection split between MISO and Non-MISO (i.e., Future MISO). Included within this balance are the acquired EEI assets and projected capital projects.

(\$ millions)	Transmission Gross Plant in Service
2020 Acquired Assets	24.6
2020 Capital Projects	<u>3.0</u>
<b>December 2020 Projected Balance (GLH Total)</b>	<b>27.6</b>
Switchyard Control Building	5.3
OSI/EMS Upgrades	<u>0.8</u>
<b>2021 Projection Capital Additions</b>	<b>6.1</b>
<b>December 2021 Projected Balance (GLH Total)</b>	<b><u>33.7</u></b>

**Breakdown of GLH Projected Balances:**

Dec 2021 Projected Balance (MISO Portion)	25.8
Dec 2021 Projected Balance (Non-MISO Portion)	7.9

4. *Question: What is the current Transmission cost (revenue) Vistra is paying for the non-MISO transmission portion?*

- Response: GridLiance Heartland currently receives \$2,600/MW annually for the non-MISO transmission service with Illinois Power Marketing Company in accordance with their executed Long-Term Firm Point-to-Point Transmission Service Agreement

5. *Question: What is the exact purchase price of the \$21M Asset?*

- Response: The purchase price of the assets acquired was \$14,843,450 as included in the Final Accounting Entries submitted to FERC, Docket No. EC20-13

6. *Are there any Acquisition costs in the O&M and A&G expenses?*

- Response: No

7. *Question: What are the Carrying costs?*

- Response: GridLiance Heartland's weighted return (WACC) as included in the 2021 Projection for the MISO assets is 7.21%. To the extent something else was intended by "carrying costs" please clarify.

8. *Question: How are A&G expenses allotted to MISO and Non-MISO portion?*

- Response: A&G and other operating expenses are allocated between MISO and Non-MISO formula rates based on the Transmission Plant allocator (e.g., which is derived based on the relative plant value proportions of the MISO and Non-MISO assets) in accordance with the FERC-approved formula rate template

9. *Question: How are O&M expenses allotted to MISO and Non-MISO Portion?*

- Response: As mentioned above in question 8 regarding A&G above, O&M expenses are allocated based on plant values of the MISO and Non-MISO assets (Transmission Plant allocator)

10. *Question: Depreciation cycle of the assets? Expected asset life? MISO and non-MISO*

- Response: The 2021 Projection assumes a weighted average total depreciation rate of 2% (i.e., ~50 years) for the MISO and Non-MISO assets, but note the approved depreciation rates by FERC Account / asset type are included in the approved formula rate template (see tab "6-Dep Rates").

## Document Content(s)

Transmittal Letter.PDF.....	1
Attachment A-1 - GLH (Non-MISO) RY2021 Projection.XLSX.....	7
Attachment A-2 - GLH (MISO) RY2021 Projection.XLSX .....	43
Attachment B.PDF.....	70
Attachment C.PDF.....	72
Attachment D.PDF.....	75
Attachment E.PDF.....	98